



NOTICE OF ENGINEERING/ENVIRONMENTAL COMMITTEE MEETING MARCH 19, 2024

NOTICE IS HEREBY GIVEN that the San Lorenzo Valley Water District has called a regular meeting of the Engineering/Environmental Committee to be held on **Tuesday, March 19, 2024, 2:00 p.m.**, SLVWD Conference Room, 12788 Highway 9, Boulder Creek, and via video/teleconference.

Any person in need of any reasonable modification or accommodation in order to participate in the meeting may contact the District Secretary's Office at (831) 430-4636 a minimum of 72 hours prior to the scheduled meeting.

This meeting is being conducted as an in-person meeting under the Brown Act, Government Code section 54953, and a quorum of the Committee must participate from the location(s) within the District that are identified above. Members of the public may attend the meeting at the identified location(s). Teleconferencing/videoconferencing access as set forth below is being provided as a convenience only and is not guaranteed. The meeting may continue in person even if teleconferencing/videoconferencing capability is disrupted or unavailable.

The meeting access information is as follows:

<https://us02web.zoom.us/j/87118139229?pwd=Z3Z3c3ppdGhiVGZtOFV1MisvTjM2Zz09>

Passcode: 054035

Or One tap mobile :

+16699006833,,87118139229#,,,,*054035# US (San Jose)

+16694449171,,87118139229#,,,,*054035# US

Or Telephone:

Dial(for higher quality, dial a number based on your current location):

+1 669 900 6833 US (San Jose)

+1 669 444 9171 US

AGENDA

1. Convene Meeting/Roll Call

2. 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 Committee at this time, on any subject that lies within the jurisdiction of the District. Normally, presentations must not exceed three (3) minutes in length, and individuals may only speak once during Oral Communications. Any Director may request that the matter be placed on a future agenda or staff may be directed to provide a brief response.

3. New Business:

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

- a. PEAVINE PIPELINE REPLACEMENT PROJECT SUMMARY AND CALIFORNIA CONSERVATION CORPS (CCC) CONTRACT
Review and discuss the memo and recommend the authorization of the CCC contract to the Board for approval.

4. Unfinished Business:

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

- a. ENGINEERING PRIORITY PROJECT LIST
- b. ENVIRONMENTAL PRIORITY PROJECT LIST

5. Informational Material

Here is a link to previous Engineering/Environmental Committee meeting minutes:
[All Engineering/Environmental Committee Meeting Minutes | San Lorenzo Valley Water District \(slvwd.com\)](#)

6. Adjournment

Agenda documents, including materials related to an item on this agenda submitted to the Committee 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 may also be available on the District website at www.slvwd.com subject to staff's ability to post the documents before the meeting.

Certification of Posting

I hereby certify that on March 14, 2024, 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 regular meeting of the E & E Committee of the San Lorenzo Valley Water District in compliance with California Government Code Section 54956.

Executed at Boulder Creek, California, on March 14, 2024.

Holly B. Hossack, District Secretary

MEMO

DATE: March 19, 2024
TO: Engineering and Environmental Committee
FROM: Brian Frus, Interim General Manager
SUBJECT: Peavine Pipeline Replacement Project Summary and California Conservation Corps Contract

WRITTEN BY: Chris Klier, Environmental Planner I
PRESENTED BY: Carly Blanchard, Environmental Program Manager

STAFF RECOMMENDATION

It is recommended that the Engineering and Environmental Committee receive this memo and recommend to the Board of Directors to enter into a contract with the California Conservation Corps for Hazardous Tree Removal.

RECOMMENDED MOTION

The Committee recommends the Board to enter into a contract with the California Conservation Corps for Hazardous Tree Removal.

BACKGROUND

The CZU Lightning Complex Wildfire in 2020 severely damaged District facilities, including the 1.3-mile Peavine Pipeline (Pipeline), which carries raw water and runs between Foreman Creek and Peavine Creek (see map in Attachment B). The Pipeline must be reconstructed to restore critical

surface water supply and will be replaced using above-grade HDPE pipe, as directed by the Board on November 2, 2023.

Prior to any work on the Pipeline, the District must complete environmental permitting processes. At the March 7, 2024 meeting, the Board approved a contract with Panorama Environmental to guide design choices and prepare environmental documentation for the project.

The first step to kick-off the project will be removal of more than 500 hazardous trees along the existing 1.3-mile Pipeline bench. To complete the engineering designs for the Pipeline reconstruction, it is necessary to undertake the required survey work. Consequently, the project must begin with the removal of hazardous trees. Once the designs are complete, the project will also require Pipeline bench clearing and repair work prior to Pipeline reconstruction.

The District is pursuing contracts with the California Conservation Corps (CCC) to perform these activities, with separate contracts for each stage of the work. The CCC has grant funding to provide a crew for the hazardous tree work, with the District only responsible for funding crew lodging, food, tools and overtime along with hiring of a consulting forester. The value of the labor provided by the CCC would be about \$260,000.

Staff will present on the Peavine Pipeline Replacement and the CCC Hazardous Tree Removal Contract.

PRIOR COMMITTEE ACTION

None

FISCAL IMPACT

A total of \$750,000 has been allocated in the FY 23-24 Peavine Pipeline Replacement project CIP budget, but staff expects to be reimbursed for 90% of the project costs by FEMA. The CCC will also cover an estimated \$260,000 of the hazardous tree removal costs if the contract is awarded to them. However, the District will be responsible for hiring a consulting forester and costs associated with the CCC crew lodging, food, tools and overtime (if any) totaling \$85,700.

ENVIRONMENTAL IMPACT

To be determined by environmental consultant.

ATTACHMENTS AND RELEVANT LINKS TO DISTRICT WEBSITE

Attachment A - CCC Peavine Hazardous Tree Removal Contract

Attachment B - Peavine Pipeline Map



Project Data

Project Title: Forestry Corps - Peavine R.O.W. Tree Removal

Project Number: R-23-1606-12758

Center Information: 1606 - Salinas Satellite

Contract Information: -

Project Description:

CCC Forestry Corps will remove trees creating hazard to Peavine Pipeline alignment. Trees to be removed vary from from 72 inches DBH and less. CCC will provide advanced level 1 sawyer to fell trees outside of cm's scope, create felling plans, and assess required alternative approaches. This removal will encompass both green, snag, and downed/uprooted trees. Trees marked for removal are included in an inventory documented by a forester. It is expected that there are more trees that may require removal in the ROW due to elapsed time since inventory. Additional removal of non marked trees in ROW will first be consented by the SLVWD. If tree removal is completed prior to allotted spike cycles, remaining allotted labor and spike schedules will be utilized to train cm's for creating tree inventory. CCC will create training project as to provide for Forestry Corps educational requirements.

Sponsor Information

Agency Name: SAN LORENZO VALLEY WATER DISTRICT **Agency Code:** 65014

Mailing Address	Mailing City	Mailing State	Mailing ZIP Code
13060 Hwy 9	Boulder Creek	CA	95006
13060 Hwy 9	Boulder Creek	CA	95006
13060 Hwy 9	Boulder Creek	CA	95006

Sponsor Contact Information:

Contact type	Title	First name	Last name	Phone number	Email address
Sponsor Representative	Environmental Programs Manager	Carly	Blanchard	831-338-2153	cblanchard@slvwd.com
Manager	General Manager	Brian	Frus	831-430-4623	bfrus@slvwd.com
Technical Advisor	Operations Manager	James	Furtado	831-338-2153	jfurtado@slvwd.com

Estimate Information

Estimated Number of Hours: 0

Estimated Start and End Dates: 3/1/24-6/30/25

Work Site Information:

Address	City	State	ZIP code	Geolocation latitude	Geolocation longitude
Easter Seals Camp Harmon 16403 Highway 9	Boulder Creek	CA	95006		



direction to site location	special instructions
From Salinas, map to be provided.	

Fiscal Summary

Total OE&E	Total CM labor amount	Total fiscal summary amount
\$37,800.00	\$0.00	\$53,928.00

Equipment, Materials and Labor

Sponsor Supplied Materials, Equipment and Labor:

Materials: None identified

Equipment: Potential use of UTV's in alternate access route, spike camp facilities, restrooms, potable water, GPS locating if required

Labor: Technical Oversight

BY SIGNING THIS DOCUMENT:

The CCC Representative agrees to the following:

- A Sponsor Agreement (CCC 96 or, where applicable, an Inter Agency Agreement or other Master Agreement) is on file at Headquarters (HQ).
- If the Sponsor is a non-profit entity, a Private Property/Sponsor Authorization form has been submitted to HQ.
- If the Sponsor is a for-profit entity, a Private Property/Sponsor Authorization form has been submitted to HQ.
- The project conforms to the CCC's Injury and Illness Prevention Program (IIPP).
- The signing CCC Representative has the authority to enter into a contractual agreement of this amount with the Sponsor.

The Sponsor Representative agrees to the following:

- Hazardous Materials
 - If there are hazardous materials present, the Sponsor has provided the location, identity, and amounts of any hazardous substances at the worksite and provided all Material Safety Data Sheets (MSDS) for hazards that are present at the worksite.
 - OR
 - To the best knowledge of the Sponsor, the worksite is free of any known hazardous materials.
- All applicable local, state, tribal, and federal permits, approvals, and clearances have been obtained.
- Project Funding
 - For projects funded by the Sponsor or entity other than the CCC, the Sponsor agrees to reimburse the CCC for estimated costs in accordance with the fiscal details shown in this document.



State of California

California Natural Resources Agency

E & E Comm: 3.19.24

CALIFORNIA CONSERVATION CORPS PROJECT EVALUATION

FORM CCC 58

R-23-1606-12758

Forestry Corps - Peavine R.O.W. Tree Removal

○ OR

- For projects funded internally by CCC's Environmental Programs or other special fund, the Sponsor agrees to comply with all applicable program and eligibility criteria to fund the project.
- The signing Sponsor Representative has the authority to enter into a contractual agreement of this type (and, if any, this amount) with the CCC.



Sponsor Representative:

Print Name: _____

Title: _____

Signature: _____

Date: _____

CCC Representative:

Print Name: _____

Title: _____

Signature: _____

Date: _____

CCC Representative:

Print Name: _____

Title: _____












Signature: _____

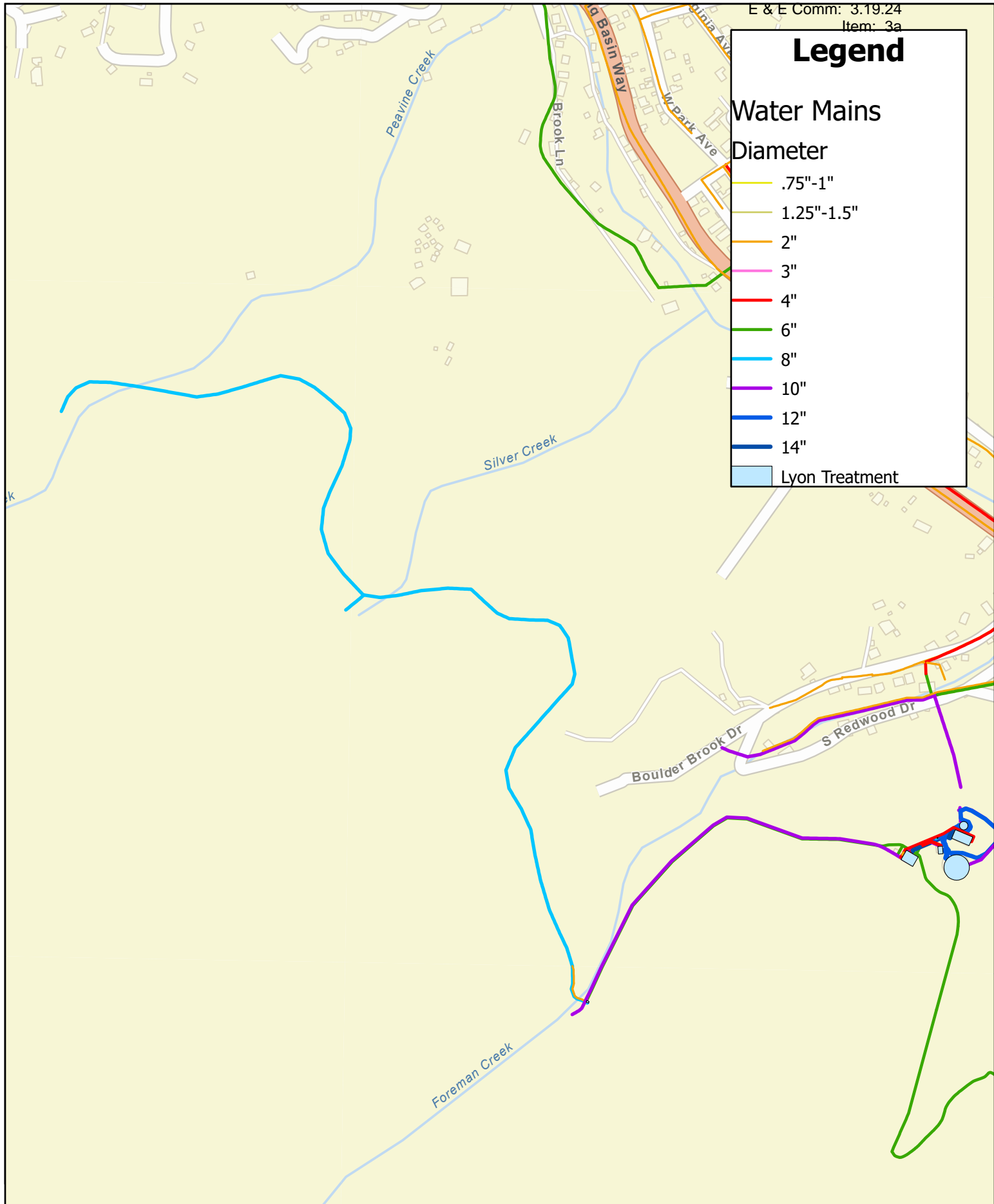
Date: _____

Legend

Water Mains

Diameter

-  .75"-1"
-  1.25"-1.5"
-  2"
-  3"
-  4"
-  6"
-  8"
-  10"
-  12"
-  14"
-  Lyon Treatment



Date: 3/07/2024
Scale: 1:7,000
Drawn By: WWL
Approved By: JWS

Former Peavine Pipeline

13060 Hwy 9
Boulder Creek, CA
95006

1
of
1

DATE: 3/19/24
TO: Engineering and Environmental Committee, SLVWD
FROM: Brian Frus - Interim General Manager
SUBJECT: Engineering Department's 2024 Priority Projects

WRITTEN BY: Garrett Roffe - Engineering Manager
PRESENTED BY: Garrett Roffe - Engineering Manager

STAFF RECOMMENDATION

It is recommended that the Engineering and Environmental Committee receive this memo and review the Engineering Department's 2024 Priority Projects.

RECOMMENDED MOTION

None

BACKGROUND

Staff have prepared the 2024 priority project list to provide project details and timelines on five key projects.

Consolidation of Bracken Brae and Forest Springs Mutuals

In September of 2021, the District applied to the Small Community Drought Relief Program for financial assistance related to the consolidation of Bracken Brae Mutual Water Company and Forest Springs Mutual Water Company. The Small Community Drought Relief Program awarded \$3,203,856 for funding the consolidation project. The District has contracted with Sandis to prepare the engineering construction documents necessary for competitive bidding by qualified contractors. During the engineering design process, the cost of the construction was determined to exceed the funding secured for the project. The District is currently working

with Sandis to reduce the scope of the project shown in the plans proportional to the remaining funding for construction. Sandis has already removed the water storage tank reservoirs and associated improvements at the proposed tank site reducing initial project costs by over two million dollars. The District is considering two options for construction of the proposed pipeline with the remaining funding. Sandis has provided an engineer’s estimate of probable construction costs for the two options and is awaiting direction on revising the plans. Once we have construction documents showing the work for which the project has funding, the District will publish the construction documents for competitive bidding. Currently, the term of the funding agreement requires construction work to be completed by December 31, 2024. The District is working with the California Department of Water Resources to extend the term beyond the current deadline.

Task	Responsible Party	2024									
		Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
100% Plans & Specifications	SANDIS										
Construction Bidding	SLVWD										
Construction	TBD										

2021 FEMA Project - Harmon Street

In October of 2021, the District awarded the 2021 FEMA Pipeline Project Design to Sandis for preparing the engineering plans and specifications necessary for competitive bidding by qualified contractors. Sandis has completed the plans and specifications for Harmon Street and provided them to District staff for final review.

Task	Responsible Party	2024									
		Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
100% Plans & Specifications	SANDIS										
Construction Bidding	SLVWD										
Construction	TBD										

Caltrans Highway 9 PM 12.12 - Water Main Relocation

On October 16, 2023, Caltrans contacted the District and indicated an emergency repair on Highway 9 at post maker 12.12 requires an existing District water main to be relocated. District staff attended a field meeting on October 25, 2023, with Caltrans’ representative to discuss scope of work and schedule. Caltrans indicated the emergency repair to Highway 9 would be constructed with gabion baskets. Caltrans provided CAD files of the area for the emergency work and District staff has completed relocation plans. District staff needs to collect pricing from qualified bidders, allocate funds and execute the construction contract as soon as possible.

Task	Responsible Party	2024									
		Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
100% Plans & Specifications	SLVWD										
Construction Bidding	SLVWD										
Construction	TBD										

Department of Water Resources Urban Community Drought Relief Tank Replacement Project

District staff is preparing a request for proposals for the design of five new 120,000-gallon, bolted steel water storage tanks. Redwood Park Tank,

Echo Tanks, Highland Tank, Felton Heights Tank and South Tanks are all sites that currently have leaking redwood tanks and will receive the new steel tanks. This project will significantly increase the available potable and firefighting water supply.

More details on the environmental aspects of this project are found in the Environmental Projects Summary memo.

Task	Responsible Party	2024									
		Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Request for Proposals	SLVWD										
100% Plans & Specifications	TBD										
Construction Bidding	TBD										
Construction	TBD										

Task	Responsible Party	2025											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Request for Proposals	SLVWD												
100% Plans & Specifications	TBD												
Construction Bidding	TBD												
Construction	TBD												

Peavine Pipeline Replacement

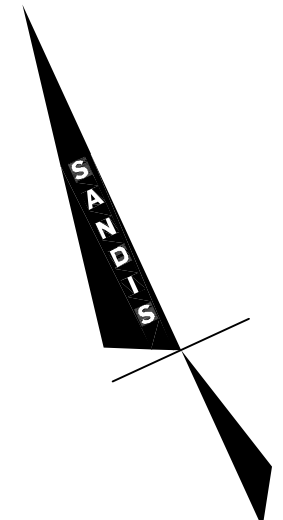
On March 7, 2024, the District awarded the Peavine Pipeline Replacement Environmental Contract to Panorama Environmental to secure the necessary environmental approvals to construct the replacement raw water

pipeline. Hazardous tree removal must be completed prior to allowing professional service consultants access to the site. To start the engineering design, the District must first complete a topographic survey of the existing conditions along the previous route. The topographic survey will then be used as a background map to show the alignment and profile of the replacement pipeline. The engineering design concept is to follow the alignment and profile of the previous pipeline while looking for opportunities to harden the new pipeline from potential risk. The District is in contact with the California Conservation Corps to assist with the project, including the hazardous tree removal and widening of the existing trail. After the hazardous tree removal is complete, the engineering plans will be prepared as quickly as possible to start construction immediately following the trail widening. More details on the environmental aspects of this project are found in the Environmental Projects Summary memo.

ATTACHMENTS

1. SLVWD BB&FS Cost Estimate Exhibit 2024-03-08.pdf

SLWVD
 BRACKEN BRAE & FOREST SPRINGS
 COST ESTIMATE OPTIONS
 03/08/2024



LEGEND

- OPTION A
- OPTION B



NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN ANY FORM INCLUDING PHOTOGRAPHY, RECORDING OR ANY INFORMATION RETRIEVABLE AND STORAGE SYSTEM, WITHOUT PERMISSION IN WRITING FROM SANDIS.



DATE: 5/16/2023
 SCALE: 1"=200'
 PROJECT No.: 222060

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
 BRACKEN BRAE AND FOREST SPRINGS MUTUAL WATER
 COMPANY CONSOLIDATION PROJECT
 BOULDER CREEK CALIFORNIA

OVERALL KEY MAP

SHEET
C0.03

DATE: 3/19/24
TO: Engineering & Environmental Committee, SLVWD
FROM: Brian Frus - Interim General Manager
SUBJECT: Environmental Project Summary

WRITTEN BY: Carly Blanchard - Environmental Programs
Manager/Administrative Analyst

PRESENTED BY: Carly Blanchard - Environmental Programs
Manager/Administrative Analyst

STAFF RECOMMENDATION

It is recommended that the Engineering and Environmental Committee receive this memo and review the Environmental Department's 2024 Priority Projects.

RECOMMENDED MOTION

None

BACKGROUND

Staff have prepared the 2024 priority project list to provide project details and timelines on five key projects.

For a comprehensive look at all projects that fall into the Environmental Department's purview see the department's Board of Director's status reports [here](#).

Peavine Pipeline Replacement

Approximately 7 miles of above-ground, raw-water pipeline were destroyed in the CZU Wildfire, including the Peavine Pipeline (Pipeline). The Peavine

Pipeline project consists of the replacement of approximately 1.3 miles of damaged raw water pipeline and the removal of approximately 520 hazardous trees along Pipeline route. The Pipeline, which runs between Foreman Creek and Peavine Creek, must be reconstructed to restore the critical surface water supply for the District’s system. The Pipeline will be reconstructed using above-grade HDPE pipe.

Upcoming Milestones:

- Environmental permitting kick-off
- California Conservation Corps. (CCC) contract award
- Pipeline survey
- Complete Engineering design
- Bench clearing and repair work
- Pipeline construction

Task	Responsible Entity	# of Months
Environmental Permitting (NOE or IS-MND)	Consultant	5-8
Hazardous Tree Removal	CCC	4
Design	SLVWD	2
Construction	CCC	12
Total		23-26

** Overlap is likely to occur between tasks, i.e. design can occur with permitting and hazardous tree removal is in process.*

More details on the engineering aspects of this project are found in the Engineering Department’s 2024 Priority Projects memo.

Conjunctive Use Planning

The San Lorenzo River Watershed Conjunctive Use Plan (Plan) is a framework for implementing the most beneficial surface and groundwater supply reliability projects within the District's jurisdiction. The main purpose of the plan is to optimize the conjunctive use of surface and groundwater sources to improve aquatic habitat and water supply reliability.

Implementation of the plan would allow more flexibility to transfer water from where it is seasonally available to where it is needed, in a manner that creates net benefits for instream flows in the watershed. The District would divert more surface flows when available during the winter and spring (peak flow season) in order to reduce groundwater pumping, provide in-lieu groundwater recharge, and thereby improve surface flows during the summer (low flow season).

The plan also seeks to explore utilization of the District's allotment of water from Loch Lomond Reservoir (313 acre feet) to offset pumping and/or surface water diversions that otherwise would have been needed to meet existing demand, especially during the low flow season.

Upcoming Milestones & schedule:

- Release Loch Lomond Feasibility Study Request for Proposals (RFP) - April 2024
- Finalize Operational Plan - April 2024
- Release Notice of Preparation (Environmental Impact Report (EIR)) - July 2024
- Arrange meetings with City of Santa Cruz - July 2024
- Felton Water Right Place of Use Change - August 2024

Sandhills Habitat Conservation Plan

The District is preparing a Low-Effect Sandhills Habitat Conservation Plan (HCP) to mitigate the impacts on endangered species and sensitive habitat during operation, maintenance, and capital improvement projects. The District opted to set aside and manage 6.3 acres of high-quality sandhill habitat within the Olympia Wellfield, a 180-acre property owned by the District used for water supply and watershed protection, to mitigate for its planned impacts, such as the Probation tank project and Pasatiempo well rehabilitation.

Upcoming Milestones:

- Revise chapters 1 and 2 of the HCP
- Draft of chapters 3 through 8 of the HCP
- USFWS review and approval of the HCP
- Permit issuance

Task	Person Responsible	2024												2025											
		March	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec		
Revise Chapters 1 & 2	Consultant	█																							
Drafting Chapters 3-4	Consultant		█	█	█	█																			
Drafting Chapters 5-8	Consultant						█	█																	
Staff Review	SLVWD								█	█	█														
USFWS Review and Approval	SLVWD										█	█	█	█	█	█	█	█	█	█	█	█	█		
Permit Issuance	USFWS																						█		

* chapter drafting accounts for SLVWD staff review

FEMA Cross Country Pipeline Replacement Projects

During the storm events of December 2022 through February 2023, the District sustained damage to its Bull and Bennett raw line and its South

Zone potable line. These damages were part of two declared disaster events which qualify for FEMA funding. Though to qualify for FEMA funding, the provisions of the Environmental Historical Preservation (EHP) act that require cultural and biological analysis must be adhered to. The pipelines have been temporarily repaired but require burying and realignment to be considered permanent complete work.

Upcoming Milestones:

- Site visit to finalize pipeline alignment
- Site surveys
- Design
- Environmental and cultural studies and surveys
- Construction

Task	Person Responsible	# of Months																																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Phase 1: Hydraulic and Geotechnical Analysis	Consultant	4	█	█	█	█																												
Phase 1: 30-90% Design	Consultant	2	█	█																														
Phase 1: Environmental permitting	Consultant	7		█	█	█	█	█	█																									
Phase 1: 100% Design	Consultant	3						█	█	█																								
Phase 2: Procurement	SLVWD	4									█	█	█	█																				
Phase 2: Construction	Consultant	18																																
Phase 2: Defensible Space	Consultant	2																																
Phase 2: Bennett/Bull Pipeline Construction	Consultant	8																																
Phase 2: South Zone Pipeline Construction	Consultant	9																																
Phase 2: Development of Operations & Maintenance Plan	SLVWD	2																																

Department of Water Resources Urban Community Drought Relief Tank Replacement Project

The Department of Water Resources’ (DWR) 2022 Urban Community Drought Relief funding offers financial assistance to address drought impacts.

The District submitted an application for replacement of five redwood tanks that are currently leaking and undersized with 120,000-gallon bolted steel tanks. The application also included one polyethylene tank that is undersized and was damaged in the 2020 CZU fire. Tanks include:

- Blue Ridge Tank: Replaced a leaking 40,000-gallon redwood tank with major construction completed 2023
- Redwood Park Tank: Currently two 10,000-gallon redwood tanks, leaking, design phase (CEQA complete)
- Echo Tanks: Currently three 25,000-gallon redwood tanks, leaking, prelim planning phase
- Highland Tank: Currently 60,000-gallon redwood tank, leaking, preliminary planning phase
- Felton Heights Tank: Currently 10,000-gallon redwood tank, leaking, planning phase
- South Tanks: Currently four 10,000-gallon temporary polyethylene tanks in place after CZU loss, preliminary planning phase

On June 19, 2023, the District was awarded the full request of \$4.5 million in funding for tank replacements.

Upcoming Milestones:

- Release Tank Replacement Request for Proposals (RFP)
- Complete 60% design
- Kick off environmental permitting
- Release bid documents
- Construction

More details on the engineering aspects of this project are found in the Engineering Department's 2024 Priority Projects memo.