

County of Santa Cruz Water Advisory Commission 701 Ocean Street, Room 312 & Santa Cruz, CA 95060 (831) 454-2022 & https://www.scceh.org/

AGENDA SANTA CRUZ COUNTY WATER ADVISORY COMMISSION Wednesday June 7, 2023, 4pm

This meeting will be held in hybrid format. Commissioners are expected to attend in person.

In-Person: 701 Ocean Street; Third Floor Training Room (directly above the stairs)

Remote: <u>Click here to join the meeting</u> Meeting ID: 219 425 929 30 Passcode: nUJNtM

A. <u>OPENING</u>

1. Call to Order

Commissioner Lego will be attending from 100 Glenview Place, Naples, FL 34108

2. Roll Call

B. <u>APPROVAL OF MINUTES:</u> April 5, 2023

C. <u>PUBLIC COMMUNICATIONS</u>

Opportunity for the public to comment on items under the purview of the Water Advisory Commission but not on today's agenda.

D. <u>COMMISSIONERS' REPORTS</u>

E. STAFF REPORTS AND ANNOUNCEMENTS

F. <u>NEW BUSINESS</u>

- 1. <u>Proclamation for Chris Berry honoring 19 years of exemplary service on the Water</u> <u>Advisory Commission</u>
- 2. <u>City of Santa Cruz Water Department and San Lorenzo Valley Water District Sanitary</u> <u>Survey Results</u>

Presentation by Zeke Bean of the City of Santa Cruz

G. UNFINISHED BUSINESS and UPDATES

1. Drought Response Update

Tour of new webpages outlining services:

https://scceh.com/NewHome/Programs/WaterResources/droughtresponse.aspx

- 2. Well Ordinance Update Process Oral report
- 3. <u>Groundwater Sustainability Agencies Update</u> Oral reports outlining updates from the three GSAs in the County.

H. CORRESPONDENCE

None

I. BOARD OF SUPERVISORS ACTION ON ITEMS AFFECTING WATER: None

J. ITEMS OF INTEREST

- 1. DWR Aerial Electromagnetic Surveys Data website: <u>https://data.cnra.ca.gov/dataset/aem</u>
- 2. Santa Cruz Sentinel, May 16, 2023 Water agencies work collaboratively on community resources <u>https://www.santacruzsentinel.com/2023/05/16/guest-commentary-bruce-mcpherson-fred-keeley-and-mark-smolley-water-agencies-work-collaboratively-on-community-resources/</u>

K. <u>AGENDA ITEMS FOR FUTURE MEETINGS</u>

L. ADJOURNMENT

HONORING CHRIS BERRY FOR 19 YEARS OF SERVICE ON THE SANTA CRUZ COUNTY WATER ADVISORY COMMISSION

WHEREAS, Chris Berry's distinguished tenure on the Santa Cruz County Water Advisory Commission ended on April 1, 2023; and

WHEREAS, Chris was appointed to the Commission to represent the large water utilities in 2004, since which time his leadership helped set the direction of the Commission, particularly during the terms he spent as Chair and Vice Chair; and

WHEREAS, Chris has always provided the Commission with good information and engaged staff in dialogue that provided his colleagues with insight on issues of importance to the Commission, particularly with respect to the City of Santa Cruz, the San Lorenzo River, and fisheries; and

WHEREAS, Chris spearheaded the workplan for the Water Advisory Commission and guided efforts to focus on important, concrete issues which included studying and ultimately protecting karst features; and

WHEREAS, his inter-commission coordination activities helped to increase communications with the Fish and Wildlife Advisory Commission and the Commission on the Environment and led to several special inter-commission meetings, bringing alignment to the work of the bodies; and

WHEREAS, Chris has served with integrity, patience, and generosity through two decades, working closely with a parade of different County staff members and Commissioners; and

WHEREAS, Chris is a considerate, motivated and dedicated colleague who champions the best interests of fish, wildlife, water resources, and the community, and his expertise will be greatly missed.

NOW, THEREFORE, I, Justin Cummings, District 3 Supervisor, join with the Water Advisory Commission in thanking Chris Berry for 19 years of exemplary service to the residents of Santa Cruz County and honor his significant contributions to the field of Water Resources Management.

2023 San Lorenzo River and North Coast Watersheds Sanitary Survey Update

Our Water, Our Future



A watershed sanitary survey is a detailed *evaluation of surface* water sources and an assessment of vulnerability of watershed lands and waterways to contamination that could affect source water quality



Background

CDM Camp Dresser & McKee Inc.

er Cine Walnut Greek Center 100 Pringle Avenue, Suite 390 Walnut Creek, California 96306 Tel: 510 933-2960 Fax: 510 933-4174

July 10, 1996

Mr. Richard Lee Water Quality Project Manager Santa Cruz Water Dopartment City of Santa Cruz 715 Graham Hill Road Santa Cruz, California 95060

Subject: San Lorenzo Volley and North Coast Watershels Sanitary Survey Final Report

Dear Mr. Lee:

Camp Dresser & McKee Inc. (CDM) is pleased to submit the final report for the San Lorenzo Valley and North Coast Watershelds Smithry Survey. This report provides a comprehensive evaluation of existing conditiona, management practices, and contaminant sources in the subject watersheds. The key recommendations are:

- Augment current water quality monitoring programs including raw water collform bacteria sampling and routine data analysis.
- Increase watershed surveillance and inspections to stop unauthorized and other problematic activities which adversely influence water quality.
- Complete a confined animal facility program to identify best management practices which will minimize contamination in runoff from these sites.
- Coordinate efforts among participating agencies and water purveyors to implement watenibed management and protection practices.

CDM sincerely appreciates the valuable coetributions and assistance of the Santa Cruz. Water Department staff and all participating utilities and agencies in conducting this study.

Very truly yours,

CAMP DRESSER & McKEE INC.

Paul Meyetholer / Project Manager

500 DR Steve Price, P.E.

Project Engineer





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San Lorenzo River and North Cou Watersheets Sanitary Survey Upda

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2023 Update Partners













Key changes since 2017



Currently:	552.05ft				
2 Last year:	570.00ft				
SEASONAL RAINFALL: (inc	ches)				
• For the past week:	0.00				
• This week last year.	0.00				
• For the season:	20.19				
• This point last season:	28.96				











Key changes since 2017

Setta Cruz County Local Agency Management Program

County of Santa Cruz Health Services Agency Environmental Health Division

Onsite Wastewater Treatment Systems

Local Agency Management Program

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Approved by Central Coast Regional Water Quality Control Board, October 14, 2021

Approved by Santa Cruz County Board of Supervisors with Minor Updates, August 23, 2022



Contaminant Groups, significant sources, and contributing factors



Sediment and Turbidity



Average and median source water turbidity data for WY 2021

Table 5-2: Turbidity Results for SLVWD (Unit: NTU)

_	Year	Bennett Spring	Bull Spring #1	Bull Spring #2	Clear Creek	Fall Creek	Foreman Creek	Peavine Creek	Sweetwater Creek	Lompico Creek
	2017	0.28	0.31	1.1	3.2	4.7	< 0.10	1.1	5	NR
_	2018	0.31	0.38	0.68	N/A	0.61	N/A	N/A	N/A	NR
_	2019	0.25	0.35	0.4	0.4	1.3	0.3	0.5	0.9	NR
_	2020	0.4	0.7	0.4	0.1	2.125	3.92	0.4	0.45	NR
_	2021	0.15	< 0.10	0.1	0.4	0.7	0.875	0.3	0.45	NR

Source': SLVWD Note: NR = Not Recorded; N/A = Data not available



bidity in SCWD's North Coast Sources, 2017-2021

Turbidity data is collected at varying intervals. Mean daily flows from San Lorenzo River at Big Trees are shown for reference to sediment transport conditions. Majors Creek was off line from May 2020 - November 2021.



Nutrients

	1	Nitrate (mg	∣/L as N)	No. of	Water Year			
Utility/Location	Average	Median	Low	High	Samples	From	То	
Santa Cruz Water Department ¹								
Liddell Spring	0.3	0.2	0.2	0.3	32.0	2017	2021	
Laguna Creek	0.0	0.0	0.0	0.2	36.0	2017	2021	
Majors Creek	0.2	0.3	0.0	0.4	18.0	2017	2021	
Loch Lomond	0.2	0.2	0.0	0.4	31.0	2017	2021	
SLR @ Tait Street	0.3	0.3	0.0	1.2	78.0	2017	2021	
SLR @ Felton	0.5	0.5	0.0	1.2	77.0	2017	2021	
San Lorenzo Valley				YEAR				
Water District ²	2015	2016	2017	2018	2019	2020	2021	
Bennett Spring	< 0.10	0.13	< 0.10	N/A	0.13	< 0.10	< 0.10	
Bull Springs-1	0.11	< 0.10	< 0.10	N/A	0.15	< 0.10	0.12	
Bull Springs-2	NR	NR	< 0.10	N/A	0.12	< 0.10	0.25	
Clear Creek	< 0.10	< 0.10	< 0.10	N/A	< 0.10	< 0.10	< 0.10	
Fall Creek	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	N/A	< 0.10	
Foreman Creek	< 0.10	< 0.10	< 0.10	N/A	< 0.10	< 0.10	< 0.10	
Peavine Creek	< 0.10	< 0.10	< 0.10	N/A	< 0.10	< 0.10	< 0.10	
Sweetwater Creek	< 0.10	< 0.10	0.15	N/A	0.14	0.17	0.13	
Lompico Creek	ND	ND	NR	NR	NR	NR	NR	
¹ Source: City								

¹Source: City

²Source: SLVWD, 2017 data is 6 months Note: NR = Not Recorded; N/A = Data not available; ND = Non-detectable

SLR = San Lorenzo River



Nitrate Concentrations in the SCWD San Lorenzo River Sampling Sites, 1967-2021 Numbers in parenthesis are median values. Trend lines drawn for each site based on a linear best fit.

Contaminants of Emerging Concern

Water Quality Parameter	Laguna Creek	Liddell Spring	SLR Felton Diversion	SLR Tait St. Diversion	SLR Highlands	Upper Laguna Creek	SLR Junction	Upper Majors
Volatile Organic Compounds	x		x	x	х	x	x	х
Synthetic Organic Compounds	x		x	x	х	x	x	
Radiological	Х		X	Х	Х	Х	X	
Inorganics	X		X	Х	Х	Х	X	х
Anions			X	Х	Х		X	
General Physical	X	Х	X	Х	Х	Х	X	Х
Metals	X		X	X	X X	Х	X X	X X
MBAS	X		X	X		X		
TOC/DOC X UV254/SUVA X		х	X	X	Х	Х	X	X
		х	X	X	Х	Х	X	х
TSS	X	X	X	X	X	Х	X	х
Asbestos	X		X	X	X	Х	X	х
Microbial Profile			X	X				
Total Coliform/ E. coli	x	x	x	x	х	x	x	х
Enterococci	X	х	X	Х	Х	Х	X	х
PFAS/PFOS	X		X	Х	Х	Х	X	
CEC	X		X	Х	Х	Х	X	
Bromide	X		X	Х	Х	Х	X	х
Dioxin/Furan	X		X	Х	Х	Х	X	х



Water Year WY 2021 Storm Event Sampling Plan

		10/06/21		5/21	10/21/21		10/25/21 10/27/21		27/21	11/02/21		11/03/21		11/09/21	
Analytes	Acronym	California Notification Level (ppt)	SLR Tait St. Diversion	SLR Felton Diversion	SLR Tait St. Diversion	SLR Felton Diversion	Laguna Creek	SLR Tait St. Diversion	SLR Felton Diversion						
Perfluorobutanesulfonic acid	PFBS	500				2.2	2.5	3.0	2.6	2.1	2.2	2.1	2.0		2.1
Perfluorooctanesulfonic acid	PFOS	6.5	2.2	2.3	4.2	4.7				3.1	2.3	2.0	2.0	4.0	3.2
Perfluorooctanoic acid	PFOA	5.1			2.6	3.0		2.5	2.1	2.9	2.0		2.0	2.5	2.3

Summary of Per- and Polyfluoroalkyl Substances (PFAS) Measured in Source Waters and Finished Water between October 1, 2021 and November 31, 2021. All results are reported in parts per trillion (ppt)

Pathogens





Figure 5-3: Annual Geometric Mean of Total Coliform from Detectable Results for SLVWD, 2017-2021



Source Water Protection *Riparian Protection and Restoration*



San Lorenzo River Riparian Conservation Program





May 2018

Developed by:

City of Santa Cruz Water Department Coastal Watershed Council County of Santa Cruz Water Resources Division Resource Conservation District of Santa Cruz County San Lorenzo Valley Water District

> With assistance from: Conservation Collaborative conservecollable gmail.com

Source Water Protection Outreach and Education



Source Water Protection Stakeholder Engagement









215 Mexemple Springs Drive Santa Cruz, CA INSER

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TO THE CITY OF MANTA CITIE UNE Christieney, Wannedwel Compliance Manager 212 Universitienes Barris Cau, CA HONI

RE APN INC. (81-30 1087 Register Gradie, Serie Cive, CA 90087

Dear Meethers of the Board of Tepervisors, Crossly Administrators and Yarf, Control Communics, Administrators and Waf, and City Watershed Managameet Real.

We not writing as Borry Doess residents and satisfators of the surject 4D accer property. We are setting about a coning violation, a presend plan violation, a prelife troisance, a sume suskarow, a sight ture lighting tochasion, a potential fee

Source Water Protection Regulator Engagement





Source Water Protection Policy Maker Engagement





WATER DEFARTMENT 3D Locart Down, Sale A, Santa Cruz, CAMME - 833-4364

Central Coast Water Board Attn: John Inman 895 Aerovista Place, Saite 101 San Luis Obispo, CA 93401

October 7, 2021

Subject: Comments - 2021 Triennial Review of the Water Quality Control Plan for the Central Coastal Basin

Dear John Inman and Central Coast Water Board Staff,

The City of Santa Cruz Water Department approximits the opportunity to comment on the 2021 Triennal Review of the Water Duality Control Plan for the Central Coastal Basin. As a domestic dividing safer provider to over 90,000 customers served primarily by sufface water, the City of Santa Cruz Water Department is very interested in the current Basin Plan review process. Please consoler the following comments as you proceed.

Brief Issue Descriptions, Issue 36: Revise Storm Season Start Date to October 1

Regarding the revision of the storm season start date to October 1, while the City supports a policy that compete project sites to be prepared for early season rains, an October 1st start date is necessation with serveral TMDLs and with other state agencies' standards. An October 15th or November 1st start date vecid allow for feasibility and seculd be better aligned with our changing climate, when significant rains prior to November are an increasingly rain occurrence. A later date would also spare many organizations from having its use estra resources on pregnation and revision of writer operation plans which are generally unnecessary since projects are often completed in web Ontober.

Create site specific turbidity and pathogen objects extending 5-miles opstream of the City's San Lorenzo River surface water diversion at Tait Street

As the Sam Lonesco Priver is the primary water sources for the City of Santa Cruz, we exold like increased focus on protecting the Manicopal and Domestic Supply (MAN) beneficial uses than are currently incorporated into the basis plan. To better protect the MAN beneficial uses are suggest levening acceptable turbidly and pathogon levels for maches upstream of the main diversion near Orosang Stream in the City of Santa Cruz.

<u>(rttrs.icpc.gimars5uPtb.it/2167tal/2)</u> with site specific objectives. For instance, using a value of 15 NTU, which is in between the secondary MCI, for turbidity of 5 NTU and the 25 NTU regional value, for 5 mile upstream of the diversion would be useful to regulate decharges in addition to helping meet annual load targets of the sedement TMDL.

Writer water from the San Lorenzo is rapidly becoming more important to municipal use in terms of groundwater recharge projects. Having the pathogen and turbidity standards applied for this reach on a year-round basis will further protect MUN beneficial uses. It is our position

Thank you

Our Water, Our Future

