



RANCHO MURIETA COMMUNITY SERVICES DISTRICT

15160 Jackson Road, Rancho Murieta, CA 95683

Office - 916-354-3700 * Fax - 916-354-2082

IMPROVEMENTS COMMITTEE

(Directors Randy Jenco and Martin Pohl)

Regular Meeting

June 7, 2022 at 8:00 a.m.

This meeting will be held via ZOOM video conference only. You can join the conference by (1) logging on to <https://us02web.zoom.us/j/82455858177>, entering Meeting ID no. 824 5585 8177 and using the audio on your computer , or (2) dialing into 1-669-900-9128 and entering the meeting code 824 5585 8177. Those wishing to join with audio only can simply call the telephone number above and enter the code. Participants wishing to join the call anonymously have the option of dialing *67 from their phone. Please refer to your telephone service provider for specific instructions. ***PLEASE NOTE – MOBILE DEVICE USERS MAY NEED TO INSTALL AN APP PRIOR TO USE AND MAC AND PC DESKTOP AND LAPTOP USES WILL REQUIRE YOU TO RUN A ZOOM INSTALLER APPLICATION – PLEASE FOLLOW DIRECTIONS AS PROVIDED BY ZOOM. IT IS RECOMMENDED YOU ATTEMPT TO LOGIN AT LEAST 5 MINUTES BEFORE THE START OF THE MEETING.***

AGENDA

- 1. Call to Order**
- 2. Consider Finding That as a Result of the COVID-19 Emergency: (i) Meeting in Person Would Present Imminent Risks to the Health or Safety of Attendees; and (ii) the Meeting is Authorized to be Held by Teleconference Pursuant to Gov. Code, § 54953, subd. (e)(1)(C).**
- 3. Comments from the Public**
- 4. Monthly Update**
- 5. Discuss Potential Voluntary Water Restrictions**
- 6. Discuss Converting District Design Standards to Sacramento County Standards**
- 7. Consider Contract with SOLitude for Chesbro and Clementia Chemical Maintenance**
- 8. Director and Staff Comments/Suggestions**
- 9. Adjournment**

"In accordance with California Government Code Section 54957.5, any writing or document that is a public record, relates to an open session agenda item and is distributed less than 24 hours prior to a special meeting, will be made available for public inspection in the District offices during normal business hours. If, however, the document is not distributed until the regular meeting to which it relates, then the document or writing will be made available to the public at the location of the meeting."



In compliance with the Americans with Disabilities Act if you are an individual with a disability and you need a disability-related modification or accommodation to participate in this meeting or need assistance to participate in this teleconference meeting, please contact the District Office at 916-354-3700 or awilder@rmcsd.com. Requests must be made as soon as possible.

Note: This agenda is posted pursuant to the provisions of the Government Code commencing at Section 54950. The date of this posting is June 3, 2022. Posting locations are: 1) District Office; 2) Post Office; 3) Rancho Murieta Association; 4) Murieta Village Association.

MEMORANDUM

Date: June 3, 2022
To: Improvements Committee
From: Michael Fritschi, P.E. - Director of Operations
Subject: Monthly Utilities Department Updates

SB 170 PROJECTS

Water Treatment Facility Sodium Hypochlorite Conversion – The design is moving forward with HDR recently submitting a data request and visiting the facility with their electrical engineer.

Recycled Water Disinfection Project – RFP has been released for design services for the Recycled Water Disinfection Upgrade at the wastewater treatment facility. The deadline for submissions is June 30, 2022.

Granlees Safety Improvements - HDR will be scheduling a zoom meeting to review structural concepts for the forebay cover.

LAGUNA JOAQUIN – No Update

SEWER

Lift 6a (between De La Cruz Dr. and Bass Lake)

Lift station 6a is currently operating with a temporarily installed emergency pump. The District is working with the District Engineer to size the 3-phase replacement pumps, which will be ordered as soon as the District verifies the designated pumps will be able to meet all of the District pumping criteria.

To date the District has spent approximately \$40,000 in equipment, service and labor responding to the emergency status, pumping and trucking sewage, and beginning to rebuild the parts of the station.

Main lift South

On May 23 a radiator hose failed, and batteries were damaged at main lift south. Upon repair, it was found that the generator could not produce the 480v needed to power the lift station in the event of a power outage. A faulty regulator was identified and has been ordered and scheduled for replacement. Staff have arranged for a rental generator in the interim.

Recycled Water Tertiary Facility

The Tertiary facility was put into operation June 3rd. The plant water and the tertiary feed pumps have been rebuilt and installed. Tesco is finishing up work on the minor modifications to the control system, a chlorine residual analyzer had to be replaced, and air service operation to the hydropneumatic tank is being corrected.

WATER

Raw Water Pumping

Diversion is complete for the water season as of May 31, 2022. While the District was able to get a waiver for demand charges from SMUD in order to test and maintain the (3) 500 hp pumps, before the test day, the river flow dropped below 175 cubic feet per second (cfs) disallowing a diversion over 6 cfs.

Calero is within 4 inches of the top of the stop logs and is at 2814.84 acre-ft of stored water. Chesbro has 1177.6 acre-ft of stored water, and Clementia is to the level of the spillway and has 890.40 acre-ft of stored water. The final diversion number for the Granlees pump station is 749.5 million gallons (2300 acre-ft).

Rio Oso Pump Replacement Update – The expansion couplings have been ordered and are scheduled to arrive in late July. The District is in the process of receiving a quote to replace the older gate valves while the pumps are being replaced. Staff are planning to evaluate whether a third properly sized pump would provide for additional redundancy and efficiency next fiscal year.

The Water Treatment Facility

Water Treatment Facility #1 and plant 2 are in operation and are currently producing at a rate of 2.1 mgd.

Water Conservation

Update on State requirements – Discussion regarding voluntary conservation

Reservoirs will not be completely topped off this year (with respect to the stop log installation) due to a combination of water curtailments and lower flows at Michigan Bar. The District may consider some conservation efforts to make up the difference in storage. Staff mention that this is the first time in recent memory that the reservoirs have not been able to be completely topped off.

Calero Stage Storage Curve

Adkins Engineering is in the process of finalizing the bathymetric survey of Reservoir Calero.

SITE DEVELOPMENT UPDATE & STORMWATER

Development

Riverview: Blasting took place the week of May 23rd. The punch list has been submitted to the developer for Phase 1A and (4) water meters have been installed for the model homes.

Retreats: Developer has continued installing sewer mains. Pads are continuing to be excavated. A total of (10) water meters will be purchased by the developer and installed subsequently. Developer has been issued a total of \$4,500 in fines for illicit water connections.

Taco Bell: Taco Bell slated to open first week of June. **Circle K/Shell:** no update

Residences East & West: Developer has submitted draft drainage study and grading plans to CSD and the County.

	Mandatory 10% Use Reduction	Mandatory 20% Use Reduction	Voluntary 15-20% Reduction	More than 2 days per week watering prohibited	More than 3 days per week watering prohibited	Other Irrigation Modification Requirments	No Property Run-off (voluntary)	Non- residential Turf Restrictions	Impervious surface washing prohibited
Cal American Water			X			X		X	
Carmichael Water District		X			X	X	X		X
Citris Heights Water District	X					X	X		X
City of Folsom		X		X		X	X		X
City of Roseville		X			X	X			
City of Sacramento			X			X			
Del Paso Manor Water District						X			X
El Dorado Irrigation District			X			X	X	X	
Elk Grove Water District			X			X	X		
Fair Oaks Water District			X			X	X	X	X
Orange Vale Water Company	X					X	X		X
Placer County Water Agency			X			X			
Rancho Murieta CSD			X			X	X		
Sacramento County Water Agency			X		X	X	X		X
Sacramento Suburban Water			X			X			
San Juan Water District			X			X	X		X
Yuba City			X			X	X		X

MEMORANDUM

Date: May 24, 2022
To: Improvements Committee
From: Michael Fritschi, P.E. - Director of Operations
Subject: Adopt Sacramento County and EID Standards

RECOMMENDED ACTION

Staff recommend that the Board consider a Resolution adopting current and future Sacramento County and El Dorado Irrigation District (EID) Design Standards for water, sewer, drainage, and recycled water infrastructure.

BACKGROUND

Design standards govern the minimum quality of materials and construction methodology used in the installation of new infrastructure. The District maintains design standards for water, sewer, drainage, recycled water piping and other related appurtenances. The standards are applied to District driven projects and to development driven projects where the District accepts water/storm/wastewater infrastructure that is put in place by the developer.

There is a cost inherent in keeping design standards properly maintained in both staff time and in consulting fees. Many of the District standards need updating. In keeping outdated standards, the District runs the risk of infrastructure being installed in a quality or state that is not in the best long-term interest of the District. The cost of receiving infrastructure that is of sub-standard quality or installation can result in very costly future repairs or early failures.

The District has not always maintained standards that are up to date or congruent with industry standards. Some standards can lead to extensive field interpretation. Some items are not covered and need to be interpreted by the District Engineer at some cost to the District. Unclear, incongruent, and dated standards do not support good relationships between District contractors, developers, or private customers. Staff also feel that maintaining our own standards is a little like “re-inventing the wheel”.

Sacramento County and EID has an engineering staff that have the capacity and budget to maintain modern construction standards that are up to date and relevant. Local contractors and developers are familiar with the Sacramento County standards. The familiarity with common standards helps to ease tensions in the field and assists engineers in the design process. Utilizing Sacramento County and EID standards will also save the District substantial staff time and consulting fees in keeping properly updated and maintained design standards.

PROPOSAL

Staff propose to utilize Sacramento County and EID standards and refrain from continuing District specific standards. The District would refer to the most up to date Sacramento County Standards for all

construction and development projects. Should the District prefer to specify a standard more stringent than Sacramento County, they would always have the right to do so.

MEMORANDUM

Date: June 3, 2022
To: Improvements Committee
From: Michael Fritschi, P.E. - Director of Operations
Subject: Chemical Treatment Maintenance Chesbro and Clementia Reservoirs

RECOMMENDED ACTION

Approve expenditure for SeClear application in Chesbro Reservoir and GreenClean Pro treatment in Clementia reservoir for \$14,675 and \$1,520 respectively.

BACKGROUND

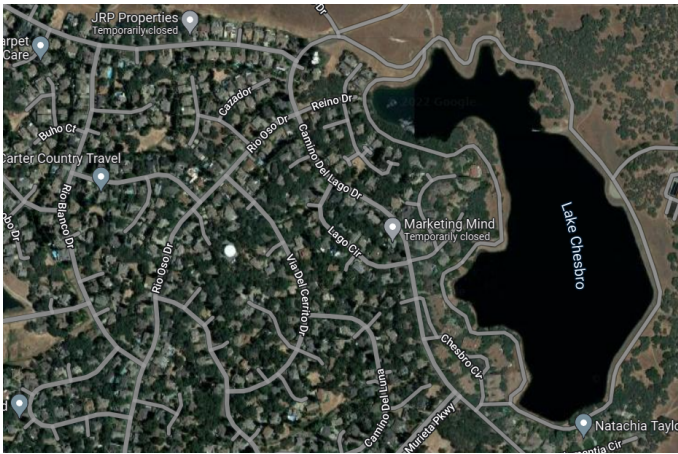
The previous reservoir quality reports from April noted slightly elevated concentrations of algae in parts of Clementia and Chesbro reservoirs.

Staff voiced concern to move proactively to preserve quality in Chesbro Reservoir for water quality reasons. Historically the District has pretreated Chesbro around this time of the year to protect drinking water source intake.

Clementia has developed some underwater plant growth (some of which has been removed physically by RMA last summer). The plant life could be removed chemically, but the active chemical would be too restrictive on irrigation from Clementia for over 30 days, which would too adversely effect RMA. The District was provided with a quote to have the plants physically removed, but the plants do not necessarily pose a water quality issue other than they indirectly help algae levels to increase by becoming a structure in which algae can easily grow on. Staff recommend killing existing algae in the 4-acre swimming area using GreenClean Pro (which is basically hydrogen peroxide) and to work with RMA to collaborate on removing the underwater plants within the next year.

Service Quotation

Account Name: Rancho Murieta CSD - Lake Chesbro
Contact Person: Michael T. Fritschi
Submitted By: Katie Pierce
Scope of Work: SeClear treatment for Lake Chesbro



Project Overview

Per site visit on May 11th, SOLitude will perform one (1) SeClear treatment for Lake Chesbro. This quote assumes the entire lake will be treated.

Description Of Work To Be Performed:

- Company will mobilize equipment and crews to the site.
- Company will perform one (1), 410-gallon SeClear treatment - treating the entire lake.
- Company will supply all safety gear and equipment necessary to perform treatment, including a boat.

Assumptions:

- Company will have free and unimpeded access to the work location.
- Work does not require any engineering or permits.
- Lake volume will be approximately 625 acre-feet at the time of the treatment - application was based on a dosage rate of 0.1 ppm.
- Treatment will take approximately one (1) day onsite with two (2) crew members.
- Should any additional issues be identified during work activity, Company will notify the Customer immediately to discuss the modified scope, related additional costs, and confirm the project path forward.

Total Cost Of Work To Be Performed: \$14,675.00

Service Quotation

Account Name: Rancho Murieta CSD - Lake Clementia
Contact Person: Michael T. Fritschi
Submitted By: Katie Pierce
Scope of Work: GreenClean Pro treatment for Lake Clementia's swimming area



Project Overview

Per site visit on May 11th, SOLitude will perform one (1) GreenClean Pro treatment for the swimming area at Lake Clementia. This quote assumes four (4) acres of the swimming area will be treated.

Description Of Work To Be Performed:

- Company will mobilize equipment and crews to the site.
- Company will perform one (1), 200-lb GreenClean Pro treatment - treating a total of four (4) acres.
- Company will supply all safety gear and equipment necessary to perform treatment, excluding a boat.
- Company will remove and dispose of algae mats that rise to the surface post-treatment.

Assumptions:

- Company will have free and unimpeded access to the work location.
- Company will utilize Customer's boat.
- Work does not require any engineering or permits.
- Treatment will take approximately one (1) day onsite with two (2) crew members.
- Should any additional issues be identified during work activity, Company will notify the Customer immediately to discuss the modified scope, related additional costs, and confirm the project path forward.

Total Cost Of Work To Be Performed: \$1,520.00