



RANCHO MURIETA COMMUNITY SERVICES DISTRICT

15160 Jackson Road, Rancho Murieta, CA 95683

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

IMPROVEMENTS COMMITTEE

(Directors Les Clark and Randy Jenco)

Regular Meeting

June 4, 2019 at 8:30 a.m.

All persons present at District meetings will place their cellular devices in silent and/or vibrate mode (no ringing of any kind). During meetings, these devices will be used only for emergency purposes and, if used, the party called/calling will exit the meeting room for conversation. Other electronic and internet enabled devices are to be used in the "silent" mode. Under no circumstances will recording devices or problems associated with them be permitted to interrupt or delay District meetings.

AGENDA

1. **Call to Order**
2. **Comments from the Public**
3. **Review Monthly Updates**
 - ✚ Development
4. **Review Removal of Repower Sewer Jetter Engine from the FY 2019-20 Budget Capital Improvement/Replacement Project Listing**
5. **Review Proposition 84 Projects and Costs**
6. **Review Commercial Pump and Mechanical Costs for Prop 84 Project 2**
7. **Director and Staff Comments/Suggestions** *[no action]*
8. **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 72 hours prior to a regular 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.

Note: This agenda is posted pursuant to the provisions of the Government Code commencing at Section 54950. The date of this posting is May 3, 2019. Posting locations are: 1) District Office; 2) Post Office; 3) Rancho Murieta Association; 4) Murieta Village Association.

MEMORANDUM

Date: May 30, 2019
To: Improvements Committee
From: Paul Siebensohn, Director of Field Operations
Subject: Monthly Project Updates

PROJECTS

Development

The Retreats East and North

No new update.

The Retreats West

This project is complete, and no further updates will be provided.

The Murieta Gardens - Murieta Marketplace

No update.

The Murieta Gardens – Highway 16 Off-Site Improvements

No update.

The Murieta Gardens II – Infrastructure at “Utility A”

An 8-inch sewer line that had a “belly” in it was dug up, repaired, and re-inspected. Several additional water services were added for the commercial lots in the area. The contractor is also working on resolving outstanding items which includes grouting sewer line penetrations into manholes and storm drain work.

The Murieta Gardens II – Subdivision

Work also continues in this section of the development to clean up various outstanding items including grouting of manhole penetrations.

Staff has been inspecting the utility work at the two model homes at lots 27 & 28 for water, sewer, and recycled water services along with review of the irrigation plans and installation of the irrigation system per the District’s Recycled Water Standards.

Rancho Murieta North – Development Project

We met with the Developer to discuss this project and Mark Martin, General Manager, has re-sent the draft deposit agreement to them. Mr. Martin was clear that fees need to be in place prior to providing review and that each time changes are made; new review and additional funding for that review would be needed in advance.

FAA Business Park

The project is continuing to wait on a building permit from Sacramento County before proceeding.

District Projects

Proposition 84 – Recycled Water Projects

Summary table of current recycled water projects:

	Projects
1a	Bore and casing installation & Caltrans encroachment permit
1b	12" pipe and appurtenance installations
2	District office area irrigation conversion
3	Cantova Commercial loop – 6" recycled water service

Project 1a & 1b – Bore Under Highway 16 and Recycled Pipeline Installation

Project 1a is essentially complete. Minor work to cut the north end of the bore pipe to provide adequate cover was completed. When the boring contractor was blowing sand in around the 12-inch pipe and conduits, one of the two 2-inch conduits had been found to be damaged somehow during installation, so the project is looking to sleeve it with a 1-inch conduit rather than the excessive cost of replacing it.

Project 1b has begun with the developer's contractor digging the trench for the routing of the 12-inch pipe. In completing this work, on May 29, 2019 at approximately 12:00 p.m. (noon) they hit an unmarked and unused portion of Rancho Murieta Country Club's (RMCC) irrigation system that was tied in at Hole 10 on the North Course. Utility Supervisor Ron Greenfield and I worked with RMCC to isolate that section of the course within 15 minutes of the break. It was discovered to be a relic supply line that runs from a river pump located near the Yellow Bridge that used to feed through this 8-inch line directly into the RMCC's irrigation system. District staff mobilized and called out a vendor to capture and cleanup the reclaimed water that was pooled in the construction area. No reclaimed water reached the river. To resolve this issue, I received permission from John Sullivan, owner of the line, to have District staff cap it off. In the meantime, I notified RMCC of what was occurring. Staff scrambled around to area vendors to get the necessary parts that night and completed the repair first thing the following morning. To allow the concrete thrust block that was poured to restrain the cap to set up properly, it was being allowed to remain off until the morning of May 31, 2019.



Project 2 – Administration Building Recycled Water Tie-in

Staff worked with a vendor to determine what size pump and variable drive control would be needed to supply the existing irrigation system. See *Commercial Pump memo*.

Project 3-Recycled Water Commercial Loop

The District’s contractor began work to install the 6” recycled water line and ran into two (2) unmarked lines. District staff stepped in with the assistance OE3’s maintenance staff to figure out what the lines were. One was a 3-inch grey schedule 40 live irrigation line that was abandoned years ago by OE3 that appears to have been used to irrigate around their shop areas before they put cobbled rocks there instead. It was still tied into their existing irrigation system though and had pressure to it. The other line was discovered to be a relic of the old raw water irrigation system that ran throughout that area and was in use around 40 years ago. That line was valved off but could be made active by turning one of OE3s irrigation valves, so it was repaired after being damaged. As the 3-inch line is in the way of the routing of the 6-inch pipe, I asked OE3 if we could remove it. After a lot of prodding they said yes, contingent that we provide them a service at no cost tapped off the newly installed line. The service tap and line will be a 2-inch with a corporation stop at the service saddle and a 2-inch capped gate valve set in a traffic rated box for future connection, if needed.





3 inch irrigation line not on plans. It will be abandoned and a new 2" service will be provided off the new 6" line



Newly installed 6-inch recycled water line.

Cantova Sewer Lift Station – Forcemain Re-Route

The fencing replacement around the Cantova lift station was completed along with some landscaping repairs. This project is now complete, and we will review the invoicing for it.

Wastewater Reclamation Plant – PLC replacement

The District's IT consultant, A Leap Ahead IT, has provided our contractor access to the system network to allow TELSTAR to continue completion of the project. TELSTAR has been out once to complete some of the work to allow staff to operate the facility but has some more work to finalized the SCADA control of it.

MEMORANDUM

Date: May 30, 2019
To: Improvements Committee
From: Paul Siebensohn, Director of Field Operations
Subject: Discuss Removal of Repower Sewer Jetter from CIP Listing

RECOMMENDED ACTION

No Action.

BACKGROUND

After further discussion with the Sacramento Air Quality Control Board, they told us that as of a regulation change that took effect last fall, allowing the District to continue to use the existing motor that is powering the District's sewer jetter. The following are the options the Air Board provided us:

1. The District was contacted in the past regarding replacing the 50.3 hp engine with one that is less than 50 hp. If you replace it with an engine that is 50 hp or less, then it would be exempt from District permits. Just make sure the engine plate shows a rating of 50 hp or less.
2. If you need to operate more than 80 hours per year, you will need to submit an application (G100 Form) and fees (\$959) to the Air Board to increase the hours to 200 hours/year. The State regulation that governs portable engines was amended last year and one of the changes was an increase to low usage rate from 80 hours/year to 200 hours/year. The low usage designation exempts you from retiring engines. In general, Tier 1 engines are being phased out in California by the end of this year, unless they are low-usage or emergency engines.
3. If the 80 hours/year is sufficient, then you do not need to do anything. The low usage of the engine exempts you from having to retire the engine. Just make sure you do not exceed this limit, or you will be subject to the ATCM requirements, which the engine will not meet.

Over the past few years, the jetter operated: 2016: 55.3 hours; 2017: 36.7 hours; 2018: 43.1 hours with staff being cognizant of the existing permit's 80 hour per year restriction. Based on this information, I believe it would be in the best interest of the District to re-permit the jetter's engine to allow it to operate up to 200 hours/year to allow us the flexibility to operate it to the extent we need it and to provide a cushion of available hours. This would be more cost effective vs repowering the jetter.

	Proposed Project Number	Sewer	Budgetary Amount
1	20-03-2	Repower Sewer Jetter	\$25,000

REMOVE - PROJECT TITLE: REPOWER SEWER JETTER



CAPITAL PLAN	Sewer Replacement Reserves
CIP #	20-03-2
PROJECT BASIS:	Replace motor with one that meets current and future Air Resources Control Board Standards.
DESCRIPTION:	Replace existing 50.9 HP Deutz diesel engine with one that meets California air standards and enough power to run the existing sewer jetter. Allows District to run necessary equipment for staff to complete cleaning and emergency blockages in the sewer collection system.
REGULATORY ISSUES:	Due to diesel fired motor being over 50 hp this equipment is currently limited to operate only 80 hours per year.
RISK ASSESSMENT:	Prevents District from possible fines.
PROJECT BUDGET:	\$25,000
BASIS OF COST EST:	Estimate based on budgetary quote from US Jetting.

MEMORANDUM

Date: May 30, 2019
To: Improvements Committee
From: Paul Siebensohn, Director of Field Operations
Subject: Review Proposal from Commercial Pump & Mechanical for Installation WSA Project 17-5-11, CIP 18-11-1 Commercial Loop Conversion – Prop 84 Project 2

RECOMMENDED ACTION

Forward to the Board for approval the quote from Commercial Pump & Mechanical in an amount not to exceed \$13,248.29, which includes a 15% contingency, for the recycled water line for the District Administration Building Conversion Project, WSA Project 17-5-04, CIP 18-10-1, Proposition 84 Project 2. Funding to come from Water Supply Augmentation.

As of February, the current balance of Water Supply Augmentation funds was \$1,793,436.

BACKGROUND

At the February 20, 2019 Board meeting, the Board approved the reassigning the Proposition 84 Grant funding from an augmentation well to recycled water augmentation projects. One of those projects is Project 2 – District Administration Office area irrigation conversion, with a cost estimate of \$30,000 and will offset potable water use at an estimated 4.5 acre-feet per year. That cost includes a pump, motor and appurtenant electrical components to supply recycled water from the District's recycled water equalization basin for irrigation. Staff worked with Commercial Pump & Mechanical to determine what is needed. The costs for the needed equipment, tax, and installation, at prevailing wage, by Commercial Pump & Mechanical is \$11,520.25. Their quote is attached.

The table below is a summary of the approved projects.

	Rancho Murieta CSD - Recycled water projects	Est. Cost	*AFY savings
1a	175' Bore and casing installation & Caltrans (Hwy 16 Bore)	\$ 299,337	36.2
1b	610' 12" pipe, automated valve, isolation valve, installation	\$ 195,000	-
2	District office area irrigation conversion	\$ 30,000	5.4
3	330' of 6" C900 – Cantova commercial loop	\$ 64,423	26.4
	total	\$ 588,760	68



May 16, 2018

Ron Greenfield
Rancho Murieta CSD
P.O. Box 1050
Rancho Murieta, CA 95683

RE: Revised Quote Submersible Pump for Gray Water Irrigation Including Installation

1 – Goulds 85GS50 5 HP 85 GPM Submersible Pump	\$ 1,722.00
1 – Franklin 23432786 5 HP Submersible Motor, 460v 3 ph	\$ 1,283.00
1 – Goulds Aquavar Solo Drive, #3AS50 with Transducer	\$ 2,693.00
1 – Goulds 9K549 100' Transducer Cable	\$ 280.00
1 – SIM 1220, 12" x 2" Well Seal	\$ 211.00
1 – 1" x 26" x 26" Base Plate Machined to Fit 12" x 2" Well Seal	\$ 1,140.00
1 – Miscellaneous Electrical and Plumbing	\$ 300.00
Sales Tax (7.75%)	\$ 591.25
Incoming Freight	\$ 100.00
Labor to Deliver and Install Pump/Motor, VFD, Transducer	\$ 3,200.00

Total Price \$ 11,520.25

Lead Time – 3 - 4 Weeks ARO

Note: Stilling well to be installed by customer. All work is Prevailing Wage.

Thank you for the opportunity and for your confidence in Commercial Pump and Mechanical, Inc..

Grant Stanley
Commercial Pump & Mechanical, Inc.