



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)

Special Meeting

August 5, 2021 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/83271780479>, entering Meeting ID no. 832 7178 0479, and using the audio on your computer, or (2) dialing into 1-669-900-9128 and entering the meeting code 832 7178 0479. 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. Comments from the Public**
- 3. Improvements Monthly Updates**
 - District Projects
 - Development
- 4. Discuss Activities Related to East and West Dissolved Air Flootation (DAF) System**
- 5. Discuss Director of Operations Recruitment**
- 6. Rio Oso Pump Replacement - CIP #22-03-01**
- 7. Sewer Jetter Replacement – CIP #22-05-03**
- 8. Update on Hole 14 Culvert Replacement RFP – CIP #20-07-2**
- 9. Discuss Residences East and West Development**
- 10. Discuss Request to Sell Water from Clementia to the West Ranch**
- 11. Director and Staff Comments/Suggestions *[no action]***
- 12. 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 August 3, 2021. Posting locations are: 1) District Office; 2) Post Office; 3) Rancho Murieta Association; 4) Murieta Village Association.

MEMORANDUM

Date: August 4, 2021
To: Improvements Committee
From: Ron Greenfield, acting Director of Operations
Subject: Monthly Development Project & other Updates

General Update

Wastewater Treatment Plant (WWTP), Sodium Hypochlorite Conversion Project

We are putting this project on hold based on the Technical Memorandum for the review of the Sodium Hypochlorite feed system at the WWTP report, from Domenichelli and Associates (DA). This work was requested by the General Manager in response to concerns from staff relating to the design of the system. The report from DA suggests that we reconfigure equipment and separate specific chemicals before we convert to the Hypochlorite system. The report was received on Wednesday, August 4, 2021. The initial plan will be to ask DA to provide a detailed review of the design of the Hypochlorite installation, provide as-builts for their recommended build, and to schedule the work to take place in time to utilize the system next season.

Outstanding work to be done includes TESCO wiring all the new control and monitoring telemetry into the Wastewater control PLC #2 and integrating these telemetry items into the existing Rockwell SCADA system. This work will be coordinated with the design changes provided by DA.

- TESCO was here on July 21, 2021, to complete their work on the telemetry system. They were here for two days and when they removed the old Chessel (this a display screen that shows graphs and history of chlorine levels, water flows and water levels in different areas of the tertiary system after moving this information to the Supervisory Control and Data Acquisition (SCADA) system) there were several problems most of which were taken care of but they will still need to do some adjustments to it when they are here to install the WIN 911 system
- Daryl with Domenichelli & Associates (district engineer) was here the first full week of July for a site visit to review the Sodium hypochlorite delivery system and give us an outline of findings. This was to determine if the system needs any changes before putting online. As discussed above, the recommendation from DA is to take a step back and develop formal design documents and to evaluate the safety needs of various treatment systems.
- July 19, 2021, Olin Corporation (Sodium hypochlorite supplier) was onsite to inspect and discuss delivery of Sodium hypochlorite.

WWTP, East & West Dissolved Air Floatation (DAF) Operations

East DAF has been up and running for a month. The West DAF was put online and up and running on July 22, 2021. We are still waiting for the second pump for the West DAF, the ship date has been changed once again to September 1, 2021. With the one new pump working now we should be fine as far as operations go for the West DAF. Pump parts have been hard to get due to the COVID virus.

Development Projects

The Retreats East & North

No update from last month; status is still the same. The project reports that K-Hovnanian is still in their due-diligence period. They have requested that Coastland sign off on plans that had expired and have now been resubmitted. District staff has requested past due and additional deposit funding before being able to continue work.

Rancho Murieta North – Development Project

The project provided deposit funds to allow continued review of the project’s water and sewer plans. Drainage plans had already been through a first review with comments and plan mark-ups provided back to the project. We are waiting for the revised drainage study and model that was requested by Coastland. We anticipate completion of the sewer plans next weeks. The water plans will be reviewed next.

MG – Legacy Villas & Suites (lot 7)

The sewer system and drainage system have been installed and contractors are working on the water system now. There have been several conflicts with other utilities that had to be worked through before they were allowed to proceed. As of August 4, 2021, all conflicts have been resolved. Underground work for water, sewer and drainage should be completed by mid-August. We are handling the majority of inspections in-house with our retired annuitant engineer who is coordinating his work with DA.



The Murieta Gardens I & II – Infrastructure

No update.

MG - Murieta Marketplace

No update. The drainage basin which is a part of this project remains active as a stormwater best management practice for the development site keeping it active.

MG – Lot 9 (Taco Bell)

We have received the Developer agreement and deposit. DA is scheduled to review the formal improvement plans when received.

MG -Lot 10 (PDF Office)

No update.

MG – Lot 11 (Circle K Convenience/Carwash/Subway)

Project grading began this week. All plans were approved by Coastland prior to the end of their contract with the District.

Riverview

A pre-construction meeting was held on site on July 20, 2021, a start date of August 9, 2021 for the mass-grading is what was planned at time of meeting. There was another meeting held on site, July 26, 2021, to discuss the water they are requesting while doing the mass-grading. Contractor is asking for up to 300,000 gallons per day during the peak of the work. A flow and pressure tests were conducted by District staff on DA to determine the impact on the delivery system. The plan is to allow the contractor to utilize two fire hydrant meters during this construction phase. They had requested four hydrant meters. The contractors' proposed solution is to use the two meters to maintain water volume in two water trailers and temporary water storage. We plan to closely monitor the water use as part of the normal process for inspecting dust control and drainage.

Murieta Business Park

No update.

The Retreats East and North

We are working with the builder, K. Hovnanian California Region, Inc., to complete the developer application process. Once this is in place, we will review the plans and work our way towards approvals. The builder anticipates they will begin the grading process within the next thirty to sixty days. They anticipate the completion of the first two model homes by the end of January 2022.

Planned Projects:

The Residences East

This project is moving forward once the requests to remove the recycled water requirement is formalized by the Board. Conditions for both East & West projects can be viewed.

<http://www2.agendonet.saccounty.net/BoardOfSupervisors/Meetings/ViewMeeting?id=3572&doctype=1>

MEMORANDUM

Date: 07/27/2021

To: Improvements Committee

From: Ron Greenfield, Acting Director of Field Operations

Subject: Approval for MuniQuip, LLC for CIP# 22-03-1 - Replacement of the Two Rio Oso Split Case Pumps and Motor CIP#22-03-01

ACTION AND/OR RECOMMENDATION:

Approval of proposal from Muni Quip, LLC in an amount not to exceed \$79,450 plus a 15% contingency in the amount of \$11,917.50 for a project total of \$91,367.50. Funding was approved in the FY 2021-22 Budget (CIP# 22-03-1) in the amount of \$100,000 - Water Fund Capital Reserves.

DISCUSSION:

Rio Oso tank site pumps are used to keep water pressure in the pressure zone of the distribution system in Rancho Murieta North from upper Guadalupe to Camino Del Lago including the Playa Del Rey area and from Puerto to Murieta Pkwy (Units #3 & #4).

The current pumps installed at the Rio Oso tank site are obsolete and have been running on borrowed time for the last five years. Pump #1 was rebuilt in 2016 and, at that time, parts were not available. Parts were pulled from two old pumps plus our pump to make one pump. After pump #1 was put back in service it has been the lead pump for the last five years and has been running 24 hours a day, seven days a week. Because of the lack of parts pump #2 is only being used on a limited capacity, it leaks, and it is in less than fair condition and would only be used in an emergency if pump #1 failed. Both pumps have been in service 15 plus years.

In an effort to secure three bids for the project, the District sent out requests to multiple vendors for replacement of these two pumps and motors. The following are the vendors responses:

- 1) Muni Quip LLC for \$79,450 that is being recommended to move forward with.
- 2) Commercial Pump & Mechanical, Inc replied "Thank you for the opportunity to quote the new pumps at Rio Oso Pump Station. Due to some variables Commercial Pump and Mechanical will not be submitting a bid for this project. Again, thank you for the opportunity and please keep us on you bid list for future projects."
- 3) We received a verbal denial to quote from Kirby Pump.

The quote from Muni Quip, LLC is the lowest bid that includes the purchase of pumps, motors, and installation.

This is the first step in a two-step process. Step two will be the replacement of the Variable Frequency Drives (VFD) at the Rio Oso tank site. This project was approved via CIP# 20-04-1 and will be ordered

after pumps are ordered because of the 12 to 18-week lead time to get pumps as per quote. The VFD project was estimated to cost \$60,000 in the FY 2020-21 CIP budget. We plan to request quotes for this project in the next few weeks. Once the VFD and Rio Oso Pump replacements are completed, the District's water delivery system is anticipated to meet the requirements for the Residences East and West development potable water demands.

FISCAL IMPACT:

CIP 22-03-1, Rio Oso Pump Replacement was approved in the FY 2021-22 CIP in the amount of \$100,000. Staff expect the total project cost, to include a 15% contingency, at \$91,367.50. There is available funding in the Water Capital Improvement reserves.





DATE: June 25th 2021

QUOTE MQ-100352 install REV2

TO: Travis

Director of Field Operations

Rancho Murieta CSD

ph.(916)354-3700

RIO OSO Split Case Project.

We are pleased to offer the following items for your consideration:

ITEM #1 3500GPM @ 115TDH

PACO 8012 5/6 KP Split Case Pump
125HP 460V 3P ODP Motor
Tungeston SS seals, Woods Coupling Copper Tubing
Steel Fabricated base.

NOTES:

Including rubber expansion joints and all hardware to install 2 PACO Split case pumps.

- Installation is included. Installation is to be done 1 pump and motor at a time to ensure working properly and so the other pump can continue to run to provide water to the residences.
- Purchase all items needed to be able to connect new pumps to existing piping.
- Make sure pumps are level and aligned properly.
- All Items listed above QTY (2) PACO SPLIT CASE Pumps...\$74,800.00
- Sales Tax \$4650.00
- TOTAL PRICE with sales tax \$79,450.00

Lead time 12 to 18 weeks.

Not included are anchor bolts, tanks, access hatches, transformers, control panels, appurtenances, field wiring, tools, field alignment, installation, field painting, analysis, calculations, power supplied, PLC's, junction boxes, supports, restraints or any item not individually included and named in the above scope of supply.

Sales tax is not included in above pricing.

Freight FOB Factory

Quotation is valid for 90 days.



This proposal is subject to the attached MuniQuip Terms & Conditions and/or the Terms and Conditions of the individual companies MuniQuip has quoted.

Best Regards,

MuniQuip, LLC

Don Reppond

Senior Sales Engineer

donr@muniquipllc.com

707-685-3757

TERMS AND CONDITIONS

1. Acceptance of this Order is final only upon written approval by MuniQuip, L.L.C. ("MQ").
2. The total sale price, as set forth on the first page hereof, including all tax, is payable by Purchaser as follows: One-Hundred percent (100%) within 30 days of notice of availability for shipment by the manufacturer. Any amount not paid when due shall bear interest at the rate of 18% *per annum*. Purchaser agrees to pay reasonable attorney's fees and all collection costs incurred by MQ if payment is not timely received. All payments by Purchaser shall be made without offset or deduction.
3. All prices are FOB source shipping point. MQ is not responsible for any loss during transit. Breakage or shortage claims arising from shipments shall be made by the Purchaser directly against the carrier. Purchaser will accept shipment within five (5) days of notice of availability from MQ.
4. Purchaser understands and acknowledges that the Equipment is not manufactured by MQ, and that MQ offers no representations or warranties of any kind or nature with respect to the Equipment. **SPECIFICALLY, MQ DOES NOT OFFER ANY EXPRESS OR IMPLIED WARRANTY OF DESCRIPTION, TITLE, OR CONDITION OF LIEN OR SECURITY INTERESTS, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE.** The only warranties with respect to the Equipment shall be those offered by the manufacturer, if any. The sole obligation of MQ shall be to assist Purchaser in connection with the presentation of any warranty claim to the Manufacturer. If applicable, MQ will assign all manufacturers' warranties to Purchaser or end user. Purchaser shall be responsible for all costs and labor for installation and start-up assistance of the Equipment.
5. MQ shall not be responsible for any loss, claim or damages resulting from any force majeure, including but not limited to strikes, accidents, unavailability of labor or materials, acts of God, weather conditions, inability of carrier to deliver, legislative, administrative, or executive law, order or requisition of any governmental entity, or any event not under the direct control of MQ. Any delay in delivery from the Manufacturer caused by a force majeure or action or inaction of the Manufacturer or carrier shall not be the responsibility of MQ.
6. In no event shall MQ be responsible for any liquidated, consequential or special damages arising from breach of this Agreement, any delay of delivery or any other cause.



MUNIQUIP, LLC

Your Source For Water & Wastewater Equipment



7. Purchaser shall pay any sales, excise, or other government charge payable by MQ to federal, state or local authorities. Any such taxes now or hereafter imposed upon sales or shipments will be added to the purchase price. Purchaser agrees to reimburse MQ for any such tax or to provide MQ acceptable tax exemption certificates.
8. Purchaser may not cancel this Order without the prior written consent of MQ, and in any event Purchaser shall be responsible for all costs, charges and fees caused by such cancellation, including labor expended, material procured, and reasonable overhead expenses applicable thereto.
9. Any failure of MQ to insist upon the performance of any term or condition of this Agreement or any prior quotations, agreements, orders, and acceptances or orders related thereto shall not be deemed to be a waiver of such term, condition, or any other right in the future.
10. The provisions hereof shall apply to all addendums or changes hereto although not specifically set forth therein, all of these terms and conditions being considered to be additional terms and conditions to any such addendum or change.
11. Purchaser agrees to inspect the Equipment immediately upon delivery. Any claim for shortages must be made to MQ within ten (10) days after shipment or shall be deemed waived. Any other claim by Purchaser, other than warranty claims against the manufacturer, shall be made within thirty (30) days after receipt of shipment, and if not made, shall be waived.
12. Purchaser agrees to provide and maintain adequate insurance against loss of or damage to the Equipment until the purchase price to MQ has been fully paid. Any loss or damage to the Equipment after transfer of possession shall not relieve the Purchaser from obligations under this Agreement.
13. This Agreement represents the final and complete understanding of the parties with respect to all terms and conditions of the sale of Equipment as contemplated hereby, and there are no other representations, promises or agreements, whether written or oral, made in connection herewith. Purchaser specifically understands and acknowledges that no agent, employee or representative of MQ has the authority to or has made any other representation, promise or agreement except as specifically set forth in this Agreement. No amendment to this Agreement shall be effective unless it is in writing and executed by both parties.
14. This Agreement shall be construed under the laws of the State of California, and any action arising hereunder shall be commenced in that state.

MEMORANDUM

Date: 07/28/2021

To: Improvements Committee

From: Ron Greenfield, Acting Director of Field Operations

Subject: Discuss Approval CIP Project #22-05-2 for Purchase of New Sewer Jetting Machine

ACTION AND/OR RECOMMENDATION:

Approve US Jetting proposal in an amount not to exceed \$69,682.36, with a 10% contingency in the amount of \$6,968.24, for a total project cost of \$76,650.60 for CIP Project #22-05-02 for Purchase of New Sewer Jetting Machine.

DISCUSSION:

The current jetter was Manufactured September 2002 by U.S. Jetting. In the past few years several problems with the jetter that have not been able to be repaired correctly because parts are no longer available and leaves the jetter unreliable.

- 1) Engine is a Tier 1 and has limited hours it can run in a year.
- 2) Engine is only allowed to run 80 hours per year limiting maintenance on sewer collection system.
- 3) Wiring harness to the engine no longer available
- 4) Circuit board for control panel no longer available
- 5) Battery is being drained because of wiring issues
- 6) Glow plugs no longer work because of wiring issues
- 7) Injectors starting to leak

This piece of equipment needs to be ready to go at any time in the event of a sewer issue whether it be just a sewer plug or a sewer overflow. On multiple occasions the past few years Utilities crew has needed to go out for an emergency sewer issue to arrive on the job and not have it start. They have since started to start it before leaving the yard this takes away from the 80 hours it can run in a year. As an observation of this piece of equipment has come to the end of useful life to the district for reliability.



We have recently sent out a request to multiple vendors for its replacement of like equipment. Quotes received:

- 1) US Jetting \$69,682.36 - Meets all specifications as required.
- 2) Hot Jet USA \$74,420.00 This was not to our specifications.
 - a) Engine was over 49 HP, required to be registered with ARB (Air Resources Board)
- 3) Amazing Machinery \$19,198.00, This was not to our specifications.
 - a) Water tanks to small
 - b) Not built for industrial use
 - c) Hose reel not able to extend and pivot.
 - d) Would not hold quote to new fiscal year.

Because of the track record of the current jetter from US Jetting the district has operated for the last 19 years and it meets all the requested specifications I would recommend the purchase of the US Jetting jetter model, USJ 4018-600 TRAILER MOUNTED HIGH PRESSURE JETTING UNIT and request it to be approved.



These are pictures of what it would look like

FISCAL IMPACT:

CIP# 22-05-2 was approved with the FY 2021-22 budget with a total project amount of \$80,000 from Sewer Replacement Reserve. It is anticipated that this project will come in under the budget appropriation, if the committee approves the bid from US Jetting in the amount of \$69,682.36, with a 10% contingency for a total project cost of \$76,650.60. If approved, this will be brought forward on August 18, 2021 for Board approval.



850 McFarland Rd, Alpharetta, GA 30004

P: 770-740-9917 F: 770-740-0297

WWW.USJETTING.COM

March 17, 2021

Company:	Rancho Murieta Community Services District ACCT21852	
Address, City, State, Zip:	Rancho Murieta, CA 95683	
Contact, Phone, Email:	Travis 916-870-5368 or Ron 916-870-6613	
US Jetting Contact:	Adrian Cortez 714-299-7864	OPP #

USJ 4018-600 TRAILER MOUNTED HIGH PRESSURE JETTING UNIT

<u>Engine/Pump:</u>	<u>Hose Reel & Hose:</u>	<u>Accessories:</u>
Hatz 49 HP Diesel Engine Tier IV	Standard Pivot Hose Reel	10' Leader Hose
USJ 18 GPM @ 4000 PSI	1/2" x 500' Sewer Hose	1/2" RPD 3R/1F Nozzle
Triplex Plunger Run Dry Pump	Manual Hose Guide	1/2" RPD 6R Nozzle
Tier 4 Basic Control Panel	Hydraulic Driven Hose Reel	9" Drain Jet Extension
Auto Shutdown (for High Engine Temp/Low Oil Pressure)	<u>Trailer:</u>	3" Tiger Tail
Water Recirculation & Anti-Freeze Sys	Twin 6000 lbs. Torsion Bar Axle	Nozzle Rack
Pulsation System	D.O.T. Approved LED Lighting	Digital Operator/Owners Manual
Shrouded Engine	Two (2) 72" Aluminum Tool Box	1 Pair Safety Gloves; 3000 PSI Straight
	Aluminum Rims	7500 PSI Flat or Rotary
<u>Water Tank:</u>		
Two (2) 300 Gallon Black Water Tanks		

BASE UNIT AS OUTLINED ABOVE	1	\$55,162.00
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FOR ALL OPTIONS NOT LISTED PLEASE CONTACT YOUR SALES REPRESENTATIVE

<u>TRAILER OPTIONS:</u>	<u>LIST PRICE</u>	<u>QTY</u>	<u>TOTAL</u>
<i>BRAKES: HYDRAULIC OR ELECTRIC **MUST CHOOSE ONE**</i>			HYDRAULIC
<i>HITCH: 2 5/16" BALL OR PINTLE **MUST CHOOSE ONE**</i>			2 5/16" BALL
SPARE TIRE AND RIM WITH MOUNTING BRACKET ON FRAME	\$490	0	\$0.00
SIX (6) 18" D.O.T. SAFETY CONES & HOLDER	\$195	0	\$0.00

<u>ENGINE / PUMP OPTIONS:</u>	<u>LIST PRICE</u>	<u>QTY</u>	<u>TOTAL</u>
JMS ELITE WIRELESS REMOTE CONTROL SYSTEM	\$4,115	1	\$4,115.00
UPGRADE TO HATZ 74 HP DIESEL ENGINE TIER IV (RECOMMENDED FOR ALTITUDES ABOVE 5000 FT)	\$4,377	0	\$0.00

<u>HOSE REEL / HOSE OPTIONS:</u>	<u>LIST PRICE</u>	<u>QTY</u>	<u>TOTAL</u>
<i>1/2" x 500' Hose: US JETTING OR PARKER **MUST CHOOSE ONE**</i>			PARKER GREEN
UPGRADE TO 1/2" X 600' USJ HOSE	\$275	0	\$0.00
UPGRADE TO LARGE CAPACITY HOSE REEL	\$795	0	\$0.00
POWER PULLOUT OPTION FOR USJ HOSE REEL	\$1,556	1	\$1,556.00

DUAL HOSE REEL (SECOND REEL WITH 1/2" X 500' CAPACITY) INCLUDES 1/2" X 500' USJ HOSE, TWO ADDITIONAL NOZZLES AND NOZZLE RACK	\$4,995	0	\$0.00
FOOTAGE COUNTER MANUAL OPTION (J-428-E-ASSY)	\$630	1	\$630.00

TANK & FILL OPTIONS:

UPGRADE TO TWO (2) 375 GALLON WATER TANKS	\$605	0	\$0.00
2 1/2" x 25' FILL HOSE FOR FILL SYSTEM (2J-284-2 1/2)	\$161	0	\$0.00
FILL HOSE STORAGE RACK (2J-284-HOLDER-2.5)	\$195	0	\$0.00

TOOL STORAGE OPTIONS:

REAR BASKET (J-019-004)	\$563	0	\$0.00
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LIGHTING OPTIONS:

LED FLOOD LIGHT - RECHARGEABLE (J-155-111)	\$220	0	\$0.00
LED ARROW BOARD (J-423-ASSY)	\$1,310	0	\$0.00

PAINT OPTIONS:

SPECIAL PAINT COLOR (EXCEPT METALLIC PAINT)	\$2,495	0	\$0.00
SPECIAL PAINT COLOR - FRAME ONLY	\$895	0	\$0.00

MANUAL & TRAINING OPTIONS:

ADDITIONAL PAPER OPERATOR'S MANUAL STANDARD	\$60	0	\$0.00
ONSITE FACTORY TRAINING (ADDITIONAL DAY)	\$295	0	\$0.00

NOZZLE & ACCESSORY OPTIONS:

ADDITIONAL SAFETY GLOVES (PER PAIR) (2J-10-GLOVE)	\$100	0	\$0.00
1/2" FLEXIBLE SUPER SPIN WARTHOG NOZZLE (2J-349-40)	\$1,261	0	\$0.00
1/4" x 100' MINI JET KIT (HOSE & NOZZLE ONLY) (2J-173-ASSY)	\$195	0	\$0.00
1/4" X 100' MINI JET REEL W/ HOSE & NOZZLE (2J-150-01-ASSY)	\$795	0	\$0.00
3/16" x 75' MICRO MINI JET KIT (HOSE & NOZZLE ONLY) (2J-175)	\$195	0	\$0.00
3/16" X 75' MICRO JET REEL W/ HOSE & NOZZLE (2J-150-01-MICRO-ASSY)	\$795	0	\$0.00
LOCKING BASE ASSY FOR MINI / MICRO REEL (2J-150-02-ASSY)	\$230	0	\$0.00
INLET GARDEN HOSE REEL W/ 5/8" X 100' GARDEN HOSE (2J-328-ASSY)	\$595	0	\$0.00
WASHDOWN SYSTEM W/ GUN & 25' OF HOSE (2J-283-ASSY & 2J-161-25)	\$360	0	\$0.00
	\$0	0	\$0.00
	\$0	0	\$0.00
	\$0	0	\$0.00
	\$0	0	\$0.00
	\$0	0	\$0.00

SPECIAL INSTRUCTIONS:

THIS QUOTE WILL BE GOOD TILL Aug-21

PRICE OF SELECTED OPTIONS:	\$6,301.00
NET PRICE OF UNIT WITH OPTIONS:	\$61,463.00
SALES TAX: 8.50%	\$5,224.36
ALL UNITS SHIP FROM GA - ESTIMATED FREIGHT:	\$2,995.00
ESTIMATED TOTAL:	\$69,682.36

Total Due: \$69,682.36

Deposit: _____ **Date Rec'v:** _____

Balance Due: \$69,682.36

Estimated Shipping Date After ARO - 8 - 12 Weeks

Acceptance of Quotation & Order Placement

SIGNATURE _____ **DATE** _____

2.5% Processing fee for any unit purchases made in full via credit card.

Terms & Conditions

US Jetting reserves the right to modify or rescind this quotation if is not accepted within 45 days from the above date. Freight, if not included in this document is the responsibility of the purchaser, FOB Alpharetta, GA. US Jetting is responsible for collecting sales tax for certain states. Duties, fees, State, Local, & Federal taxes, If any are the sole responsibility of the purchaser if overlooked & not collected by US Jetting. Deposits subject to return if leasing and financing arrangements cannot be obtained after all good faith efforts have been made within 30 days. Deposits will be returned upon receipt of written requests without cause within 10 days from the date of acceptance of this agreement. US Jetting employees will not act as an agent in arranging leasing or financing products. All products are subject to a 20% restocking fee plus all freight charges once US Jetting products have been shipped. Manufacturer's Statement of Origin (required for obtaining a title) will not be provided until payment in full has been received and cleared financial institutions. All US Jetting goods are subject to the terms and conditions of the US Jetting warranty. Warranty issues pertaining to trucks, enclosed trailers and truck bodies manufactured by others are to be resolved directly by the customer & specific manufacturer. After 10 days, deposits on enclosed or truck mounted units or skid units will not be returned.



Quote

3811 Old Tasso Rd NE

Date	Quote #
2/16/21	121259-R

Name / Address
Rancho Murieta CSD 15160 Jackson Rd Rancho Murieta, CA 95683

Ship To
Rancho Murieta CSD 15160 Jackson Rd Rancho Murieta, CA 95683 916-870-5368

Rep	RFQ #
RDM	

Item	Description	Qty	Cost	Total
	<p>**Please note that if the customer does not have a dock to unload trailer off on, the trailer will be delivered to their closest Estes Terminal (See Below)**</p> <p>**Please allow 4-6 weeks for delivery**</p>			
	<p>Product will be delivered to Estes Express Termianl - 212 Sacramento 4200 West Capitol Avenue West Sacramento, CA 95691</p>			
Misc	<p>AM960-09 Vanguard 40HP Engine General Pump 1/2" x 300' Jetting Hose 3500psi @ 11gpm</p> <p>Comes Complete With:</p> <p>V-Twin OHV Engine with Electric Start Low Oil Automatic Shutdown Battery & Battery Box Poly Chain Drive</p>	1	15,995.00	15,995.00T

Total

Phone #	Fax #	E-mail	Web Site
800-504-7435	800-504-7436	order@amazingmachinery.com	www.amazingmachinery.com



Quote

3811 Old Tasso Rd NE

Date	Quote #
2/16/21	121259-R

Name / Address
Rancho Murieta CSD 15160 Jackson Rd Rancho Murieta, CA 95683

Ship To
Rancho Murieta CSD 15160 Jackson Rd Rancho Murieta, CA 95683 916-870-5368

Rep	RFQ #
RDM	

Item	Description	Qty	Cost	Total
	Ceramic Plunger Pump 6.5 Gallon Gasoline Fuel Tank 200 Gallon Water Tank With Plumbing Electric Hose Reel with Hose Guide Aqua Pulse Feature & Adjustable Pressure Foot Pedal Valve Water Flow Operation 3 Piece Sewer Nozzle Kit For Cleaning up to 12" Sewer Lines Tongue Mounted Tool Box 2 Rear-stack Mounted Hose Reels: <ul style="list-style-type: none"> • 200ft High Pressure Hose Reel • 100ft - 3/4" Garden Hose Reel 50ft Wash-down Hose Wash-down Gun, Wand, & Tips Customer must supply a Garden Hose TRAILER SPECIFICATIONS 5 x 8 Single Axle Trailer Rugged, Specially Designed Trailer Safer, V-Braced Tongue Easy Ride, 3500lb Leaf Spring Axle			

			Total	
--	--	--	--------------	--

Phone #	Fax #	E-mail	Web Site
800-504-7435	800-504-7436	order@amazingmachinery.com	www.amazingmachinery.com



Quote

3811 Old Tasso Rd NE

Date	Quote #
2/16/21	121259-R

Name / Address
Rancho Murieta CSD 15160 Jackson Rd Rancho Murieta, CA 95683

Ship To
Rancho Murieta CSD 15160 Jackson Rd Rancho Murieta, CA 95683 916-870-5368

Rep	RFQ #
RDM	

Item	Description	Qty	Cost	Total
Shipping Cha...	Steel Diamond-Plate Floor 2" Ball Required On Tow Vehicle DOT LED Lighting with Flat 4-pin Connector 15" - 6 ply Tires, Painted Steel Wheels Low-Rise Rails For Easy Operation Overall Measurements 149L x 79"W x 59"H Shipping Weight 1500LBS	1	3,203.00	3,203.00
	Freight / Shipping Charges		0.00%	0.00
	Out-of-state sale, exempt from sales tax			

Total			\$19,198.00
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Phone #	Fax #	E-mail	Web Site
800-504-7435	800-504-7436	order@amazingmachinery.com	www.amazingmachinery.com

Page 2 of 2				
QTY	Model/Item	Description	List Price	Contractor Price
1	Power Wash System	1/2x100' Power Wash Hose 6000-PSI rated with quick connect fittings. Installed onto a manual hose reel made by Hosetract, included the 5000-PSI Super Swivel with grease fitting. Also includes a full set of spray nozzles (Red, Green, Yellow, White) one (1) Turbo Nozzle and the gun/lance combo		INCLUDED
1	Soap & Antifreeze Systems	12-gallon soap & Antifreeze Tank, System Blow Out, System Recycle. High Pressure Soap Injection system.		INCLUDED
1	Anti-Freeze System	18-gallon antifreeze tank with full recycle system with blow down capability.		INCLUDED
4	Toolboxes	(1) Tongue Mounted, (2) Side Mounted Custom Lockable Steel Toolboxes, (1) Craftsman Toolbox		INCLUDED
1	Safety Package	Safety and Operations Video – OSHA Compliant, Safety Sign-off Sheets, Safety Vests, Safety Cones, Strobe Light, LED Trailer Lights		INCLUDED
1	Manual Package	(1) Parts Book, (1) Service Manual, (1) Operator's Book		FREE
QTY	Model/Item	** Options/Upgrades/Extras**	Wholesale Price	Add in Price if Wanted
1	<u>Diesel Engine Upgrade to Kubota</u>	56 HP Kubota Turbo Diesel Liquid Cooled Low Noise Muffler, EPA Tier 4 final Rated, Rear Manual Throttle Control, Pulsation System, Air Purge Pinch Roller, Feature Low Engine Oil / High Temperature Automatic Shutdown System	\$9,890.00	\$4,945.00
1	Trailer / Water Tank Upgrade	2-300gallon doorway-style water tanks (600-gallons total water). Includes larger 5'x16' 14K trailer upgrade, custom water tank holding cage, fast fill hook ups.	\$3,980.00	\$3,980.00
1	Directional Light Bar	Left/Right directional light bar on rear of trailer.	\$2,480.00	To Be Determined Not Included
1	1/2 Floor Cleaner	1/2 High Flow Floor Cleaning Jetter Nozzle rated at 20-GP,	\$3,980.00	To Be Determined Not Included

Please review carefully and note any corrections or optional items to be included. If purchasing the Equipment out-right, we require 50% deposit, with balance before shipment. If a municipality or government division is purchasing, we require a purchase order before production. If financing the equipment, we will work with you directly with the financing company.

Authorized Signature _____

Date _____

Subtotal:	\$76,920.00
Preferred Customer Discount:	<\$2,500.00>
New Subtotal:	\$74,420.00
Tax if Any Done in Your State:	0.00
Shipping:	FREE
Total:	\$74,420.00



MEMORANDUM

Date: August 4, 2021
To: Improvements Committee
From: Tom Hennig, General Manager
Subject: Residences East and West Recycled Water Waver Request

RECOMMENDED ACTION

Consider the request from the owners of Murieta Club Properties to wave the recycled water requirements for the Residences East and West of Murieta Hills.

BACKGROUND

Murieta Club Properties, LLC has submitted a report, which is included as part of this staff memo, on the future availability of recycled water as development expands the number of homes within the District. In their report they have cited that the amount of water used by homes within Rancho Murieta was significantly overstated, which resulted in unrealistic estimates for the amount of recycled water produced by existing and planned development. The work was completed by local developer John Sullivan. Over the past several months Mr. Sullivan and fellow developer Bob Kiel, have made several requests for the District to consider the economic consequences for requiring that recycled infrastructure be built when there is little chance of there ever being enough recycled water available. Key this discussion is the need for the District to pay for the infrastructure to deliver the water to a location near the Residences development. It has been estimated that the cost of this project would exceed three-million dollars of District reserve funds. This estimate is based on the 2017 Recycled Water Program Preliminary Design Report.

In the attached documents, Mr. Sullivan has provided an overview of the results of calculating the amount of available recycled water as development occurs. If these figures are accurate, it is clear that funds spent to deliver recycled water to the Escuela and Stonehouse park sites will be wasted on a system that will not be used.

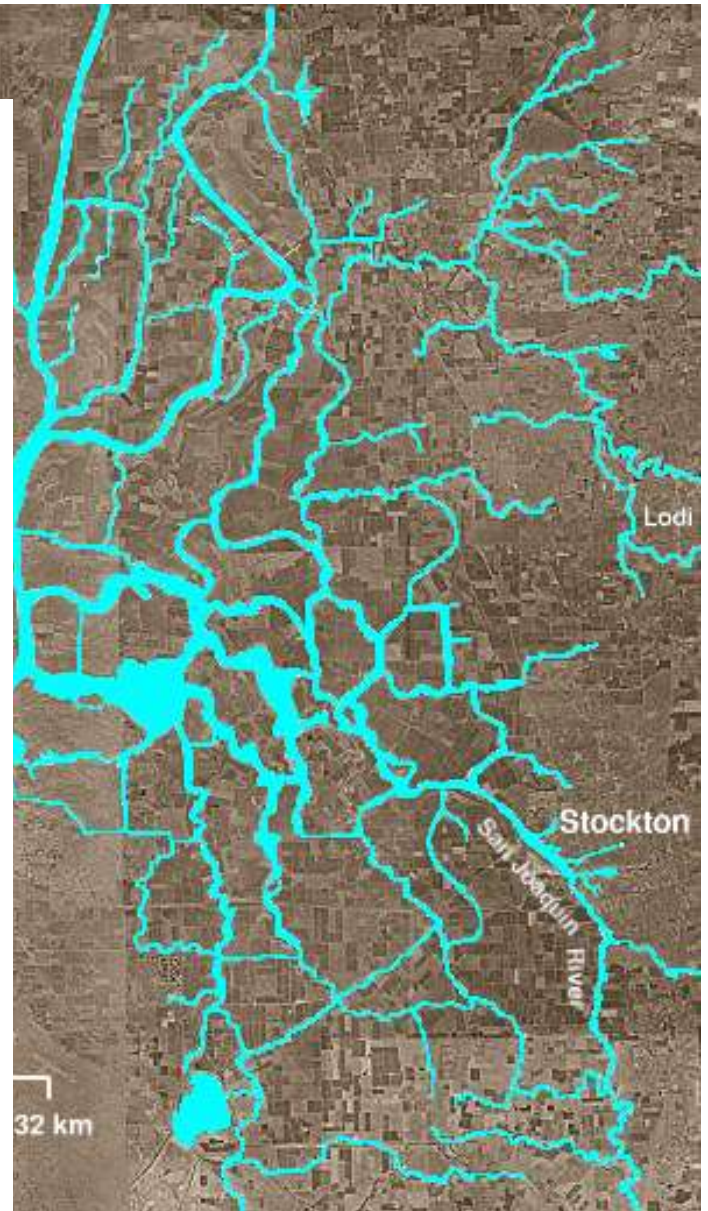
CONCLUSION

At this time, we have studied the numbers provided by Mr. Sullivan and recommend the Committee consider giving the full Board the opportunity to determine status of the requirement for continuing to commit the District to paying for the infrastructure to deliver recycled water to the parks near the Residences development.

It is further recommended that the proposed development be required to adhere to the Sacramento County Sustainable Landscaping Design standards as they bring their improvement plans forward. This includes landscaping for projects shall be designed to integrate principles of sustainability to the greatest extent feasible. This includes principles of water conservation, the use of trees for energy conservation and to improve air quality, and the use of storm water control features for treatment and run-off reduction, with an emphasis on the use of drought-tolerant and/or native plants. Landscaping plans shall cohesively incorporate the County requirements and guidelines.

CSD RECYCLE

Water Balance – 2021-



AUGUST 4

MURIETA CLUB PROPERTIES

For Residences East of Murieta Hills

Authored by: John M. Sullivan

Executive Summary

Previously published RMCS D studies and Reports have been reviewed with an emphasis on confirming the District’s WWTP Secondary Storage volumes being converted to tertiary recycle water (“RW”) available for delivery to RMCC and others. And then presenting the golf courses demands for healthy turfgrass irrigation.

Distilling calculations from the reports listed on page 7, it is clear that assumptions made by consultants for these studies were repeated as ‘fact’ in many future calculations. Embedded “unsubstantiated assumptions” were made going back to the ‘Second Amendment to the Acquisition and Services Agreement’ (1991). In addition, some terminology has confused the issues of water uses and **Recycle Water Availability**.

Terms such as Equivalent Water Supply Units, Average Gallons Per Day, EDU’s, Commercial/Industrial EDU’s, Projected Use in gallons per day, Conversion Ratios, Seepage, Evaporation, Infiltration and Inflow all serve to make the analysis difficult unless the data can be distilled to the core numbers and digested by the decision makers of the District.

The Integrated Water Master Plan (2006) and other studies over the last 15 years have yielded varying numbers for gallons per day that reach to WWTP per residence and were published in the reports previously provided to the District. (page 7)

- | | |
|--------------------------------------|--|
| 1. 2006 IWMP | <u>315</u> gallons per day |
| 2. 2009 HDR Sewer Management Plan | <u>276</u> gallons per day (.31 af. Yr./Unit) |
| 3. 2010 Integrated Water Master Plan | <u>210</u> gallons per day |
| 4. ADWF July 2012-2021 (July Report) | <u>159</u> gallons per day average |
| 5. June 2021 404,000 gpd average | <u>154</u> gallons per day – current ADWF |

Previous studies and reports have shown up to 1,089,690 gallons per day at Build-out as the Average Dry Weather Flow (ADWF) to the WWTP or 3.34 Acre Feet per day. (1219 ac.ft.)

The Build-out analysis using 159 gallons per day (the historical average over the last 10 years) and 4490 homes at Build-out would only produce 2.19 Acre Feet per day at the WWTP or 713,910 gallons per day. (799 ac.ft.)

This is a stunning 35% difference.

In a nutshell, this difference between studies without an accurate Build-out unit projection and any interim review of the actual flows into the WWTP, is the reason for much for the discrepancy between projections and actuals RW on an annual basis.

A portion of the reduction from the earlier studies is the averaging down of home sizes and the tightening up of the CSD's Sewer Collection system. During the 2010-2012 era, the leaky manholes were sealed and other I/I was reduced which noticeably affected WWTP Wet Weather Inflows.

A true Recycle Water Balance between the WWRP and RMCC is not that simple because of the variability of rainfall, carry over storage, and how much irrigation water is supplemented from the Bass Lake River Pump. This year that water from the river 'saved' the golf courses. So let's talk about a complete irrigation season with the "other" variables.

District practice is to have less than 100 ac.ft. of treated wastewater in the two secondary storage reservoirs at the WWTP each October 15th. As long as the Reclamation Plant can come online in early April, there should never be a time when the District can't store all of the Inflow from October 15, to April 1st, even with a 100 year return event. Even when there is a 100 year return event, the 757 acre foot Secondary Storage Reservoirs can handle the storage with 2 foot of freeboard. The spreadsheet we have updated and attached, shows normal rainfall, and golf course

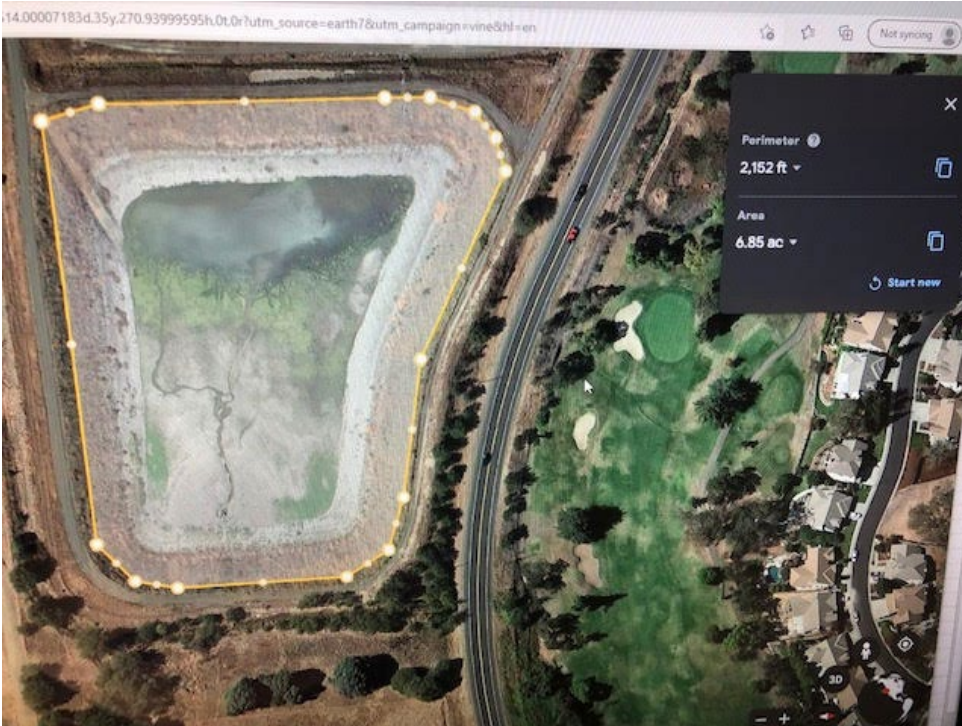
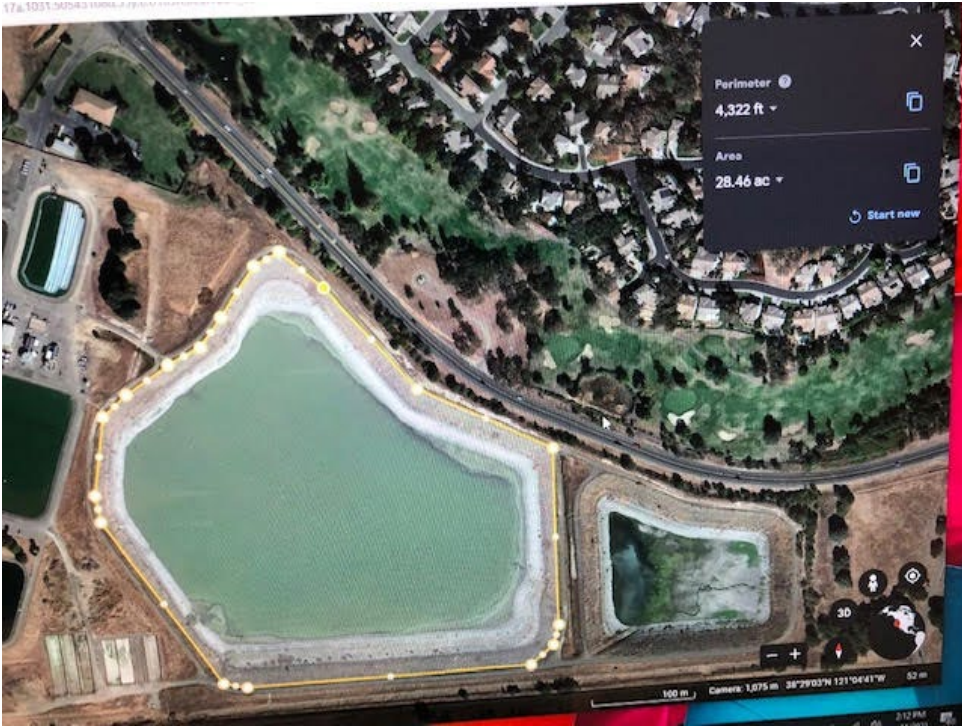
irrigation demand of 812.57 ac.ft. This is significant in that it accounts for volume from the Bass Lake River pumping in the spring and delaying irrigation delivery from the WWRP till May. The meetings between RMCCSD and RMCC staff and management was helpful for each party to understand the start up procedures and timelines necessary to get the 2 DAFs operational each year. The 2.3 mgd peak capacity will be aided by the disinfection expansion now funded by the state grant. Getting water into ponds at #16 #17 South for transfer to Lakes #10/#11 South and to Bass Lake should be more efficient once the RMCC irrigation season begins each Spring.

As stated not all irrigation water for RMCC is supplied by RW. It is envisioned that RMCC will continue to augment the early season irrigation with raw water from the Bass Lake River pump in March and April.

The primary irrigation demand for the courses in the months of June/July/August and September in normal years about 637 ac.ft. of irrigation water for healthy turfgrass. Half of October requires another 40 ac.ft. RMCC has been remiss in punching fairways and improving the root structure of the turf. That practice needs to return in order to limit compaction and runoff from nightly irrigations during the hot summer months. CalPoly San Luis Obispo has online research we used to determine the evapotranspiration rates for turf in Area 14 (Sacramento)

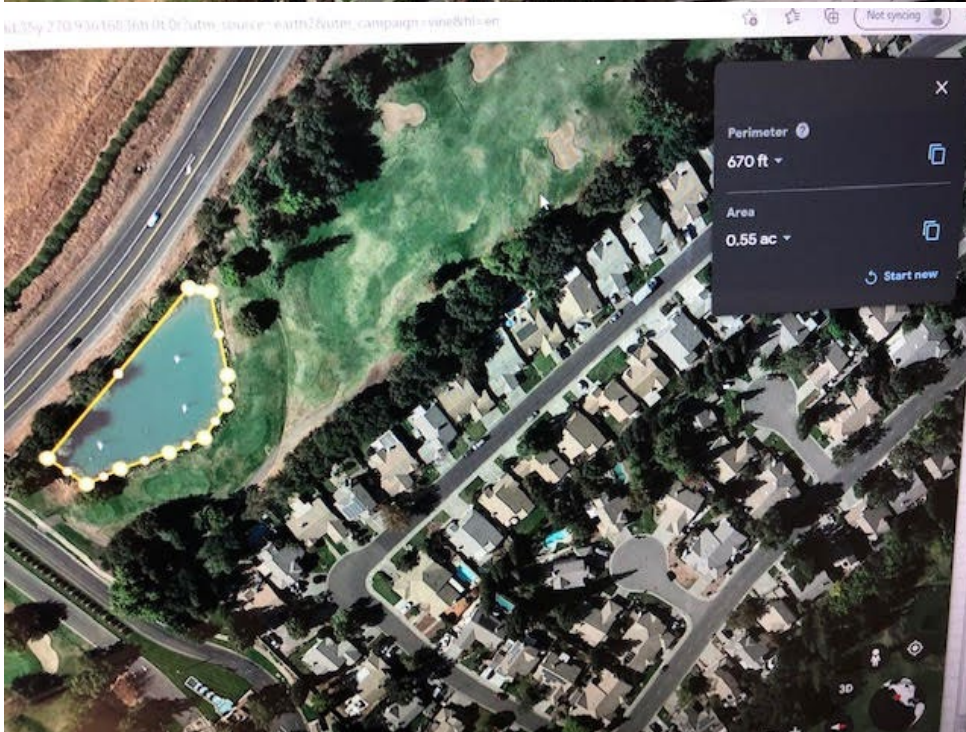
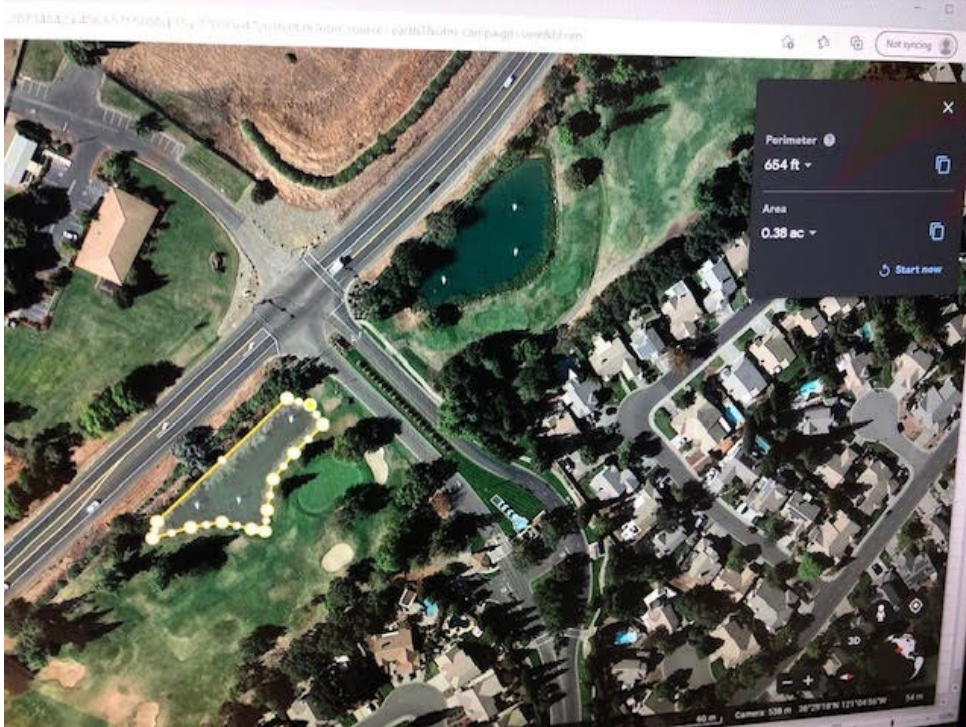
The annual pan evaporation for Folsom Lake is calculated at 66.18 inches. The summertime evaporation is around 40 inches. The surface acres of all irrigation lakes for the golf course total 48.33 Acres. Therefore over 160 ac. ft. of RW is evaporated from the 7 lakes, ponds and reservoirs during the summer irrigation season.

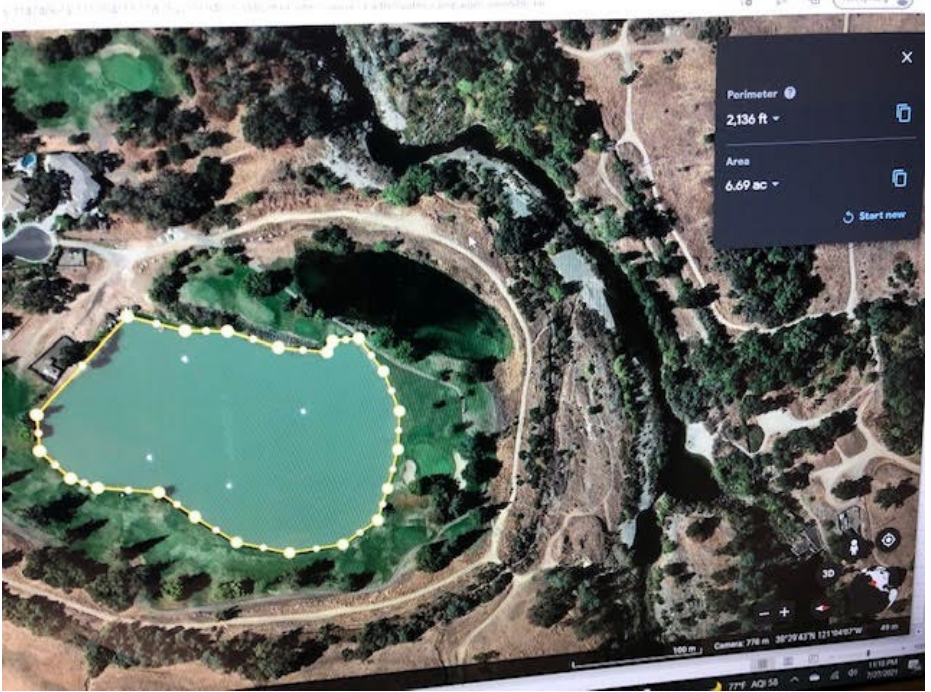
The VanVleck irrigation easement ergonomic irrigation application rate is 215 ac.ft.

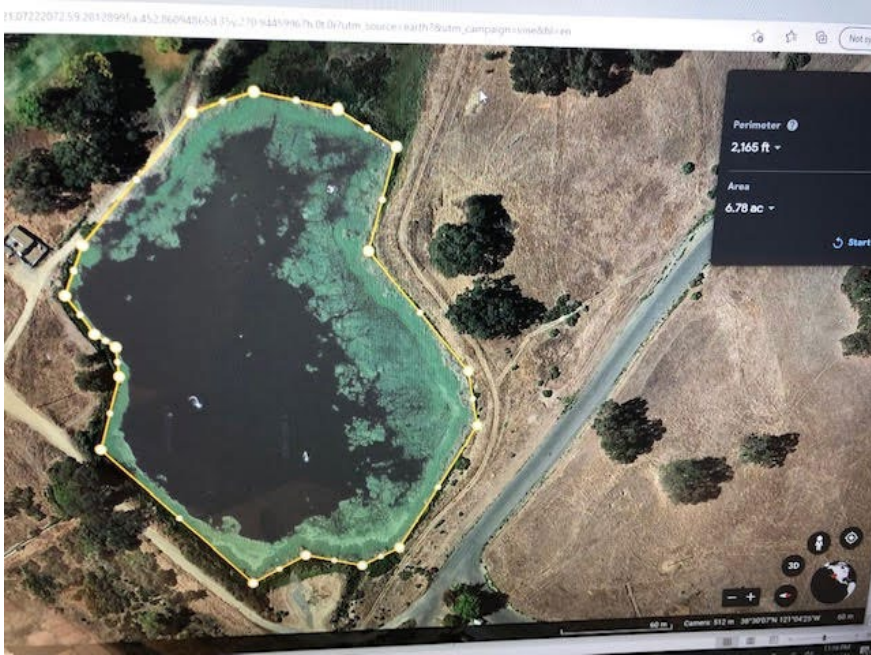


“WWTP Secondary Storage Reservoirs”

Ponds #16/#17 and Lake #10/#11 and Bass Lake







Publications Reviewed:

Acquisition and Services Agreements

20x2020

Agreement for the Availability and Use of Recycled Water 1988

Planning for Future Droughts 1990

Integrated Water Master Plan 2006

HDR Sewer Study 2009

Integrated Water Master Plan Update 2010

Recycle Water Standards 2013

Title 22 Engineering Report 2013

Title XVI Recycle Water Feasibility Report

Recycle Water System Expansion MND

Waste Discharge Requirements and Master Reclamation Permit RWQCB

Water Supply Assessment 2016

Recycle Water Modeling Study 2016

Recycle Water Preliminary Design Report

RMCC – BUILD OUT - 4490 USERS RMCS D

GOLF COURSE ANNUAL IRRIGATION CYCLE: ASSUME 50 AF CARRYOVER AT OCT 15

OCTOBER 15TH THROUGH MARCH 31 INFLOW		365.73 AF
19.59 " OF RAINFALL (NORMAL YEAR) = 1.54'	+	<u>53.13</u>
		468.86 AF
EVAPORATION	-	<u>25.76</u>
*****100 YR. RETURN EVENT 17.79" 1.48'		47.74
10% INFILTRATION INTO SYSTEM I/I	+	<u>36.50</u>
		527.34 AF
DAF (AVAILABLE FOR ONLINE SERVICE)		
APRIL RAIN LESS APRIL EVAPORATION	-	13.17
APRIL INFLOW TO WWTP	+	<u>65.70</u>
		579.53
MAY RAIN LESS MAY EVAPORATION	-	20.48
MAY INFLOW TO WWTP	+	<u>67.89</u>
		626.94 AF
JUNE + JULY + AUGUST + SEPTMBER RAINFALL	+	4.27
LESS EVAPORATION	-	154.00
JUNE-SEPTEMBER INFLOW TO WWTP	+	267.18
RMCC GOLF COURSE USAGE 100% RECYCLE	-	<u>637.05</u>
		107.34 AF
OCTOBER 1-15 INFLOW	+	32.85
OCTOBER 1.15 RMCC GOLF COURSE USE		<u>40.20</u>
OCTOBER 15 SECONDARY STORAGE		99.99 AF

HOW CAN 2021 CALCULATION BE 375-580 AF DIFFERENT THAN PREVIOUS STUDIES?

USING 4490 CONNECTIONS:

159 GPD = 713,910

VS.

210 GPD = 942,900

Δ 228,990 X 365 =

83,581,350 gal. =

256 ac. ft.

IWMP 2010

∞∞

HDR REPORT SHOWED

276 GPD = 1,239,240

VS.

159 GPD = 713,910

Δ 525,330 X 365 =

191,745,450 gal.=

588 ac.ft.

HDR SEWER STUDY

∞∞

HDR 2006

310 GPD = 1,391,900

VS.

159 GPD = 713,910

Δ 677,990 X 365 =

247,466.350 gal.=

759 ac.ft.

IWMP 2006

**Other users of Tertiary Treated Recycle Water from WWRP:
Purple pipe installed and/or meter(s) set.**

Van Vleck Sprayfield	215 ac.ft.
Murieta Gardens Residential	13.8 ac. ft.
Murieta Gardens Commercial	12.0 **** Not Completed
Retreats West	5.7 ac. ft.
Retreats North / East	9.9 ac. ft. 2021-2023
<u>Others</u>	<u>250 + ac.ft.</u>

Currently, only the VanVleck Sprayfield is permitted to accept Tertiary Treated Recycle Water from the WWRP.

**NOTE: H1 (a) Master Reclamation Permit (page 33)
RMCS D must provide information to RWQCB and details of others users before District may apply RW to Other Users Listed above.**

My conclusion is that in most years there will not be enough RW available to satisfy RMCC and the already installed RW needs of Gardens and Retreats. The District is contractually committed to serve some volume to VVleck via the Sprayfield every other year.

**Attached Normal Year
RMCC Irrigation**

**Respectfully submitted
John M. Sullivan/Murieta Club Properties, LLC**

Normal Yr. WWRP START UP BY MARCH 31 NORMAL YEAR-WET YEAR MID-MAY START
 19.59" Secondary Storage at 100 acre foot or less at October 15

2.19 AFD
 2.19 Cal Poly SLO Zone 14 ITRC
 Maximum transfer to VV Sprayfield 215 a.f. - year

Historical Evaporation Rate		Month	No. Days	RAINFALL	Evo		INFLOW	Demand	Stored
ADWF	Pan Evap In					100.00	4490	223.Ac.	100.00
713,910	4.89	OCT	16	0.82	1.93	-2.97	35.04		132.07
2.19	2.06	NOV	30	4.92	1.25	9.85	65.70		207.62
A.F. Day	1.25	DEC	31	2.74	1.14	4.29	67.89		279.80
	0.92	JAN	31	8.22	0.73	20.09	67.89		367.78
	1.90	FEB	29	0.28	2.36	-5.58	63.51		425.71
Storage	3.47	MAR	31	0.81	4.13	-8.91	67.89		484.69
32.20 Ac.		START WWRP		17.79					
	5.21	APR	30	0.30	5.82	-14.81	65.70	-89.58	446.00
PondLake	8.07	MAY	31	0.44	7.62	-19.26	67.89	-86.04	408.59
16.13 Ac		Dry - Wet Rainfall Adjustment		17.79					47.73 100 yr.
				0.74					
10.58	9.91	JUN	30	0.35	8.00	-16.50	65.70	-138.12	319.67
	11.12	JLY	31	0.09	8.36	-21.06	67.89	-163.95	202.55
	9.93	AUG	31	0.31	7.11	-19.31	67.89	-150.20	100.93
	7.45	SEPT	30	0.31	5.82	-12.50	65.70	-104.37	49.76
	4.89	OCT	15	0.82	1.93	-7.30	32.85	-80.41	-5.10
		Secondary Storage at 100 a.f. or less		1.88			801.54	-812.67	
		Normal Yr.		19.59					
	2.06	OCT	16	1.14	3.86				
	1.25	NOV	30	3.94	1.19				
		DEC	31	1.21	1.17				
Historic Annual Evap Rate	66.18								

RMCC Seasonal Use
 -812.67

Normal Water Year. Full Build-out. 4490 Homes. Secondary Storage Ponds at 100 as of October 15 per Policy.
 Bass Lake River pump installed and operational early spring. River pump continuous feed in Spring to Bass Lake.
 RMCC draws water to fill Lakes #10,#11 (

56.58	21.15	44.66
43.30	1.88	31.22

JuneJulyAugustSept
 -637.05

Prepared for RMCS D
 8.5.2021
 Improvements