



RANCHO MURIETA COMMUNITY SERVICES DISTRICT

15160 Jackson Road, Rancho Murieta, CA 95683

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IMPROVEMENTS COMMITTEE

(Directors Randy Jenco and Martin Pohl)

Special Meeting

July 5, 2023 at 8:00 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. ***Discussion Item* Present Phase One Integrated Water Master Plan Story Map**
3. **Improvements Staff Report**
 - A. ***Discussion Item* Lost Lake Maintenance**
 - B. ***Discussion Item* Drainage Ditch Maintenance**
 - C. ***Discussion Item* Level Sensors for District Reservoirs**
 - D. ***Discussion Item* Dissolved Air Flotation (DAF) Pump Replacement**
 - E. ***Discussion Item* Wastewater Drying Bed Panel Update**
 - F. ***Discussion Item* Retreats Infrastructure Acceptance**
 - G. ***Discussion Item* SB170 Project Update**
 - H. ***Discussion Item* Annual Wastewater Sludge Removal**
4. **Comments from the Public**

If you wish to speak during Comments from the Public or would like to comment regarding an item appearing on the meeting agenda, please complete a public comment card and submit to the Board Secretary prior to Public Comments. We will hold all comments to the Public Comment section.
5. **Director and Staff Comments/Suggestions**
6. **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 30, 2023. Posting locations are: 1) District Office; 2) Post Office; 3) Rancho Murieta Association; 4) Murieta Village Association.

MEMORANDUM

Date: June 29, 2023
To: Improvements Committee
From: Michael Fritschi – Director of Operations
Subject: Integrated Water Master Plan Story Map

BACKGROUND

The District has retained the services of Maddaus Water Management and Adkins Engineering to prepare and Integrated Water Master Plan. This is an update to the Community Communications portion of the process.

DISCUSSION ITEMS

The District is in the process of creating a Story Map that will conglomerate the data that is being reviewed and utilized for the Integrated Water Master Plan. The Story Map is currently in the initial phase where the data regarding water supply is provided. Future phases to the Story Map will include documented water demands and data regarding alternatives to meet varying demands. Story Map data is the basis for computations and modeling provided in the Shared Vision Model where the District will be able to study and evaluate various alternatives and demand forecasts.

The next step will be to provide an overview of the existing water and recycled water system at the August 16th meeting. Subsequent phases of the Story Map will include demand information and IWMP alternatives which will be introduced in future Improvent Commitee and Board Meetings. Future special meetings will include presentations of the Shared Vision Model where the information from the Story Maps will be applied in creating an analysis of alternatives for meeting water demands over various simulations.

MEMORANDUM

Date: June 29, 2023
To: Improvements Committee
From: Michael Fritschi – Director of Operations
Subject: July Improvements Report

A. Lost Lake Maintenance - There has been some increased interest in the state of the drainage basin commonly referred to as Lost Lake. Lost Lake is classified as a drainage basin and the District is currently responsible for the upkeep of this drainage basin. The basin contains a small aeration system that serves to keep the basin somewhat mixed and oxygenated. The basin also contains a fountain that performs a similar function as the aeration system with the added benefit of moving duckweed toward the basin shore in a circular pattern.

The basin is located on property owned by the Country Club (RMCC). The fountain is maintained by the Rancho Murieta Association (RMA). The District owns and operates the aeration system and is responsible for the upkeep of the drainage basin and is contractually obligated to reimburse power costs to RMA for the operation of the fountain and aeration system.

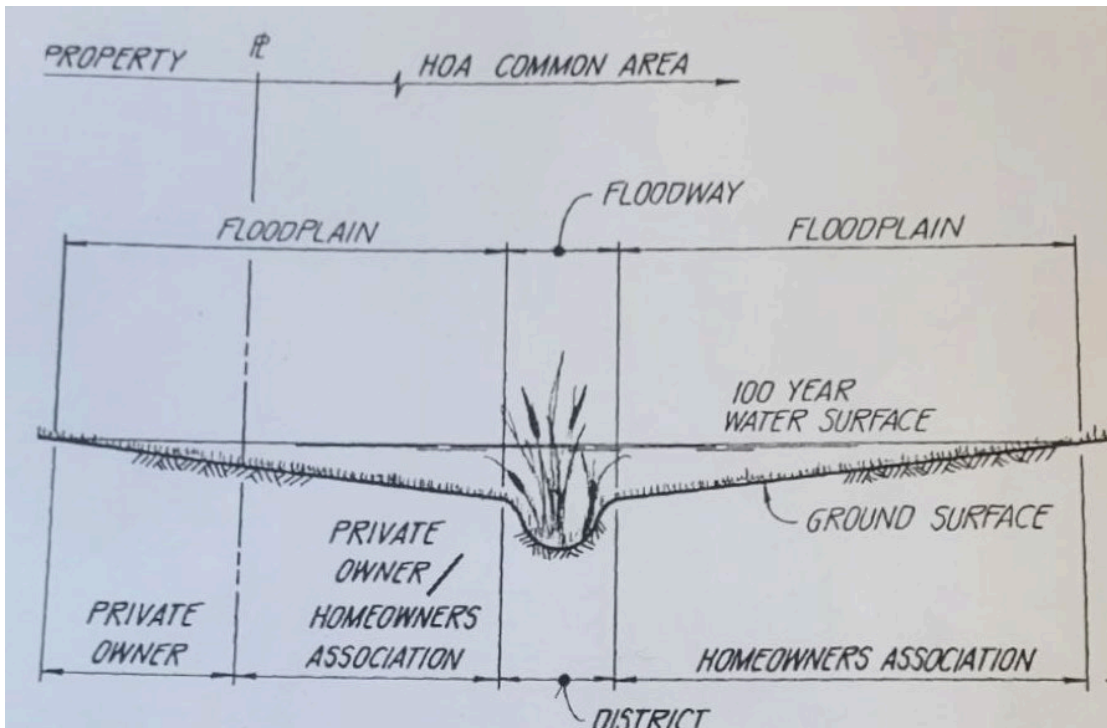


The District inspects this basin on at least a quarterly basis and inspects for working aeration system and performs a visual inspection of outlet obstruction and underwater plant growth. Should the aeration system become in-operable, the utility crew will repair or replace the components as needed. Should the underwater plant growth begin to over-accumulate, the basin will begin to lose capacity and will need to be mechanically or chemically removed. In addition, the weeds around the perimeter of the shore of the basin are also trimmed by the District on an annual basis.

Recently, the RMA has removed significant weeds in the area. The District has discussed the potential of working with the RMA to determine a control strategy to reduce the underwater plant growth. The District is in the process of investigating an aerator system that is less prone to plugging. The District will likely take over the maintenance of the fountain.

Resolution: This item is for information only.

- B. Drainage Ditch Maintenance** - The District maintains several miles of drainage ditches to allow stormwater to be conveyed. The District is responsible to remove weeds in the flowline (floodway) and the toe of the ditch.



Ditch maintenance is a very labor-intensive endeavor and the District utility crew often cannot be expended for this work, especially when other priority service calls and leak repairs and other utility maintenance needs exist.

Last year, the District utilized sheep and goats to maintain the ditches and surrounding areas owned by the RMA. The cost to utilize the goats for weed reduction around ditches and around the District facilities, was \$22,000. The quote for this year from the same vendor was over \$45,000 due to what was learned last year about the increased labor costs for the high frequency of constructing and deconstructing temporary fences and having to frequently relocate the animals to and from very small areas. The District has reached out to other animal providers and have received little interest from those contractors due to the complexity of the requirement of constant relocation of the animals.

Additional items to consider when performing ditch weed removal is the removal of weed cuttings where applicable to prevent the reseeding or potential build up in the floodway. Current practice is to leave the cuttings in place where cut.

The District has been in contact with the department of corrections and has discovered that the District can hire a crew of 8-15 laborers to remove weeds at a rate of \$200 per day. There is an additional per day cost to add a secondary guard to increase the security of the project. It is estimated that the hired crew could likely cut down the ditch weeds in 15-20 days (\$3,000-\$4,000). If this works out, the District could likely reduce the cost of ditch maintenance substantially. The District is also planning to experiment with the removal of the cuttings to see if successive years of this will help reduce the weed growth in subsequent years.

Resolution: This item is for information only.

C. Level Sensors for District Reservoirs

The District has been notified by the department of water resources that future reporting will be required to include hourly reservoir levels. The District requested quotes to have level

transducers installed in Calero, Chesbro, and Clementia reservoirs. The District solicited quotes from (3) suppliers with the lowest quote just under \$15,000 to install the level transducers and to comply with the state directive.

Resolution: This item is for information only.

D. Dissolved Air Flotation (DAF) Pump Replacement

The District is in the process of replacing a water recirculation pump on the East Dissolved Air Flotation (DAF) unit. This pump supplies flow to the air saturation tank. District staff met with engineering and determined that the 20 hp replacement pump specified by the engineer and manufacturer will be the best replacement for the original pump. Staff have ordered the replacement pump at a cost of \$7,566 a decrease of approximately \$2,000 from the cost of the original replacement model. The replacement pump will better fit the needed flow and pressure ranges experienced by the DAF.

Resolution: This item is for information only.

E. Wastewater Drying Bed Panel Update

The District has initiated the drying bed panel replacement project for the wastewater treatment facility as outlined in the FY22-23 capital improvement project and has purchased the materials for the drying bed panel in FY22-23. The District will incur some additional costs in FY23-24 for installation and will approach the committee when that cost is known. The installation and testing will be performed by the District Electrician Prodigy Electric.

Resolution: This item is for information only.

F. Retreats North Infrastructure Acceptance - K Hovnanian homes have requested District acceptance of water, sewer, and drainage infrastructure Per Policy 2009-04 the Developer shall provide the following prior to the acceptance of infrastructure:

1. Inspection “walk-through” – *Completed Punch lists*

Staff have verified that the utility infrastructure has been installed per District standards for Retreats North except for Lift Station 6B improvements, which the District will wave until completion. The District has also received record drawings and associated AutoCAD files.

2. 1-year warranty bond for 10% of the value of improvements

The Developer has previously filed a subdivision (improvement) bond with Sacramento county that covers all developed assets (including utilities) to the time of 1-year after Retreats North utility infrastructure is accepted by the District. Prior to the end of the 1-year warranty period, staff will inspect utilities for any deficiencies that may need to be corrected.

Staff have received the value of the infrastructure from the Developer so that the District can bring in the value of the infrastructure as assets for depreciation and as future replacement value.

3. Easements and Dedications recorded

Staff have verified that public utility right of way easements have been recorded.

Resolution: The next step is to introduce a Resolution at the next Board Meeting to accept the infrastructure and to direct the General Manager to enter into a Bill of Sale (transfer agreement) with the Developer.

G. SB170 Project Update – The District has provided the draft annual report to the State for the \$1.3M in SB170 provided to the District. All projects are slated to be completed in the next fiscal year.

- A. Granlees Forebay Safety Improvements are currently in the design phase.
- B. Water Facility Chlorine Gas to NaOCl Improvements have reached the 100% design level. An updated Engineers Estimate will be brought before the Board for approval prior to sending the project out to bid.
- C. The Wastewater Facility Chlorine Gas to NaOCl and Contact Tank Improvements are at the preliminary design level.

Resolution: This item is for information only.

H. Annual Wastewater Sludge Removal – The District is scheduling the cleaning out of the facultative lagoons at the wastewater treatment facility. Typically, the contractor collects sludge from the bottom of the lagoon by pumping and transports the sludge to the District drying beds for drying. This project is anticipated to cost between \$17,000 - \$25,000 depending on the level of accumulated sludge. The District budgets for this as a part of the wastewater

facility operating expense. APS environmental is the only local company that has the proper equipment available to perform this task.

Resolution: This contract will require Board Approval due to the expected cost.