



**FALLBROOK PUBLIC UTILITY DISTRICT  
MEETING OF THE ENGINEERING & OPERATIONS COMMITTEE**

**AGENDA**

**MONDAY, APRIL 17, 2023  
9:00 A.M.**

**FALLBROOK PUBLIC UTILITY DISTRICT  
990 E. MISSION RD., FALLBROOK, CA 92028  
PHONE: (760) 728-1125**

**THIS MEETING WILL BE HELD AT THE ABOVE DATE, TIME, AND LOCATION AND MEMBERS OF THE PUBLIC MAY ATTEND IN PERSON AT THE DISTRICT OFFICE LOCATED AT 990 E. MISSION RD., FALLBROOK, CA 92028. FOR THE CONVENIENCE OF MEMBERS OF THE PUBLIC WHO DO NOT WISH TO ATTEND IN PERSON, FALLBROOK PUBLIC UTILITY DISTRICT PROVIDES A MEANS TO OBSERVE AND PROVIDE PUBLIC COMMENTS AT THE MEETING VIA WEB CONFERENCE USING THE BELOW CALL-IN AND WEBLINK INFORMATION. PLEASE NOTE THAT IN THE EVENT OF TECHNICAL ISSUES THAT DISRUPT THE ABILITY OF MEMBERS OF THE PUBLIC TO VIEW THE MEETING OR PROVIDE PUBLIC COMMENTS THROUGH THE WEB CONFERENCE OPTION, THE MEETING WILL CONTINUE.**

**Join Zoom Meeting**

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**PUBLIC COMMENTS:** Members of the public may submit public comments and comments on agenda items in one of the following ways:

**SUBMIT COMMENTS BEFORE THE MEETING:**

- By emailing to our Board Secretary at [leckert@fpud.com](mailto:leckert@fpud.com)
- By mailing to the District Offices at 990 E. Mission Rd., Fallbrook, CA 92028
- By depositing them in the District's Payment Drop Box located at 990 E. Mission Rd., Fallbrook, CA 92028

All comments submitted before the meeting by whatever means must be received at least 1 hour in advance of the meeting. All comments will be read to the Committee during the appropriate portion of the meeting. Please keep any written comments to 3 minutes.

**REMOTELY MAKE COMMENTS DURING THE MEETING:** The Committee Chair will inquire prior to Committee discussion if there are any comments from the public on each item.

- Via Zoom Webinar go to the "Participants List," hover over your name and click on "raise hand." This will notify the moderator that you wish to speak during oral communication or during a specific item on the agenda.
- Via phone, you can raise your hand by pressing \*9 to notify the moderator that you wish to speak during the current item.

**MAKE IN-PERSON COMMENTS DURING THE MEETING:** The Committee Chair will inquire prior to Committee discussion if there are any comments from the public on each item, at which time members of the public attending in person may make comments.

**THESE PUBLIC COMMENT PROCEDURES SUPERSEDE THE DISTRICT'S STANDARD PUBLIC COMMENT POLICIES AND PROCEDURES TO THE CONTRARY.**

*If you have a disability and need an accommodation to participate in the meeting, please call the Board Secretary at (760) 999-2704 for assistance.*

**I. PRELIMINARY FUNCTIONS**

CALL TO ORDER / ROLL CALL

PUBLIC COMMENT

**II. ACTION / DISCUSSION -----(ITEMS A-C)**

- A. CONSIDER RESCINDING “WATER SHORTAGE RESPONSE LEVEL 2 – WATER SHORTAGE WATCH”, MOVE TO “NORMAL CONDITIONS”
- B. BOARD NOTIFICATION OF EMERGENCY DECLARATION FOR PIPE REPAIR ON NORTH MAIN AVE AND ACACIA LANE
- C. PIPELINE AND VALVE REPLACEMENT PROGRAM UPDATE

**III. ADJOURNMENT OF MEETING**

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**DECLARATION OF POSTING**

I, Lauren Eckert, Executive Assistant/Board Secretary of the Fallbrook Public Utility District, do hereby declare that I posted a copy of the foregoing agenda in the glass case at the entrance of the District Office located at 990 East Mission Road, Fallbrook, California, at least 72 hours prior to the meeting in accordance with Government Code § 54954.2.

I, Lauren Eckert, further declare under penalty of perjury and under the laws of the State of California that the foregoing is true and correct.

April 13, 2023  
Dated / Fallbrook, CA

/s/ Lauren Eckert  
Executive Assistant/Board Secretary

## M E M O

**TO:** Engineering & Operations Committee  
**FROM:** Mick Cothran, Engineering Technician  
**DATE:** April 17, 2023  
**SUBJECT:** Consider rescinding “Water Shortage Response Level 2 – Water Shortage Watch” move to “Normal Conditions”

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Description

After a winter with substantial precipitation in Fallbrook (over 25 inches measured at the FPUD offices since September 2022) and rain and snowfall throughout the western United States, drought conditions in our region have improved markedly. Water supplies, including FPUD’s local Santa Margarita Conjunctive Use Project and the California State Water Project are anticipating substantially increased yields due to the above average precipitation and record breaking snowpack amassed during the winter/spring of 2022-23.

On March 24<sup>th</sup>, 2023 the Governor of California signed *Executive Order N-5-23* which recognizes the improved hydrological conditions in the State, and rescinds some provisions listed in *Executive Order N-7-22* (March 28, 2022). Some provisions of *Executive Order N-7-22* remain in effect, including a designation of severe drought on the Colorado River basin’s system of reservoirs, an integral component of Southern California’s imported water supply. Continued conservation efforts by water purveyors throughout the arid west will be imperative to preparing for and adapting to future periods of drought.

The District’s *Water Shortage Response Program (Administrative Code, Article 17)* identifies practical conservation measures that are in place at all times (*Normal Conditions*), and contains six levels to aid the District’s response to water shortage conditions. Prohibitions of end use are identified as well as other stipulations of shortage responses (sections 17.8.0-17.2 are attached to this memo).

A “Water Shortage Response Level 2 – Water Shortage Watch” (in place at this time) increased public education and outreach regarding conservation programs. In addition, the District suspended all annexations to the District’s service area, except under some circumstances. Together these measures were designed to promote a consumer demand reduction of up to twenty percent (20%). ***From June 2022 to March 2023, a demand reduction of 11% was achieved by FPUD ratepayers.***

“Normal Conditions” (proposed at this time) retains public education and outreach regarding conservation programs, and practical conservation measures. Prohibitions of end use under “Normal Condition” include wasteful practices such as washing down hardscape with water, inefficient landscape irrigation (overspray, runoff) and irrigating residential and commercial landscapes midday.

District conservation programs include rebates for water saving irrigation devices and appliances through [www.socalwatersmart.com](http://www.socalwatersmart.com), education resources available at [saveourwater.com](http://saveourwater.com), and the District's automated metering system, which enables ratepayers to track and review their water use through a web based customer portal. Common sense conservation measures include eliminating irrigation runoff onto hardscape or roadways and the timely repair of water leaks. When runoff or other violations of District code are observed or reported, District staff communicates directly with FPUD account holders to ensure that issues are addressed in a timely manner.

#### Recommended Action

That the Committee recommend to the Board to rescind the "Water Shortage Response Level 2 – Water Shortage Watch" and declare "Normal Conditions" per the District's Water Shortage Response Program. Upon declaration, public announcement would be made on the District website and social media outlets, and by publication in the Village News. Continued efforts will be made by District staff to promote educational approach to promoting water conservation.

If additional directives from the Governor or the State Water Board regarding non-functional turf or other prohibitions of end use come to pass, District staff shall prepare an update for the Board at the subsequent Board meeting with details on compliance. Additional necessary Board action can be taken at that time.

Sec. 17.8.0 NORMAL CONDITIONS.

During a Normal Condition, customers are required to use water wisely and to practice water conservation measures so that water is not wasted. All water withdrawn from District facilities shall be put to reasonable beneficial use. District water users shall comply with the following water use prohibitions and conservation measures at all times:

1. Do not wash down paved surfaces, including but not limited to sidewalks, driveways, parking lots, tennis courts, or patios, except when it is necessary to alleviate safety or sanitation hazards.
2. Eliminate water waste resulting from inefficient landscape irrigation, such as runoff, low head drainage, or overspray, etc. Similarly, stop water flows onto non-targeted areas, such as adjacent property, non-irrigated areas, hardscapes, roadways, or structures.
3. Irrigate residential and commercial landscape before 10 a.m. and after 6 p.m. only, unless using drip irrigation.
4. Use a hand-held hose equipped with a positive shut-off nozzle or bucket to water landscaped areas, including trees and shrubs located on residential and commercial properties that are not irrigated by a landscape irrigation system.
5. Irrigate nursery and commercial grower's products before 10 a.m. and after 6 p.m. only. Watering is permitted at any time with a hand-held hose equipped with a positive shut-off nozzle, a bucket, or when a drip/micro-irrigation system/ equipment is used. Irrigation of nursery propagation beds is permitted at any time. Watering of livestock is permitted at any time.
6. Use re-circulated water to operate ornamental fountains.
7. Wash vehicles using a bucket and a hand-held hose with positive shut-off nozzle, mobile high pressure/low volume wash system, or at a commercial site that re-circulates (reclaims) water on-site. Avoid washing during hot conditions when additional water is required due to evaporation.
8. The irrigation with potable water of ornamental turf on public street medians is prohibited.
9. The application of potable water to outdoor landscapes during or within 48 hours of measurable rainfall is prohibited
10. The irrigation with potable water of landscapes outside of newly constructed homes and buildings in a manner inconsistent with

regulations or other requirements established by the County of San Diego's Landscape Ordinance.

11. Serve and refill water in restaurants and other food service establishments only upon request.
12. Offer guests in hotels, motels, and other commercial lodging establishments the option of not laundering towels and linens daily.
13. Repair all water leaks within five (5) days of notification by the Fallbrook Public Utility District unless other arrangements are made with the General Manager.
14. Use recycled or non-potable water for construction purposes when available.

During a Water Shortage Response Levels 1-6 condition, the water conservation measures and water use restrictions established by this Article 17 are mandatory and violations are subject to criminal, civil, and administrative penalties and remedies as specified in this Article."

Sec. 17.8.1 WATER SHORTAGE RESPONSE LEVEL 1 – WATER SHORTAGE NOTICE CONDITION.

During a Level 1 Water Shortage Notice condition, the District will increase its public education and outreach efforts to emphasize increased public awareness of the need to implement water conservation practices to ensure that no water is wasted, and increase enforcement of prohibitions of end use to promote a consumer demand reduction of up to ten percent (10%).

All persons using District water shall comply with Normal Conditions water conservation practices during a Level 1 Water Shortage Watch, as identified in Sec. 17.8.0.

Sec. 17.8.2 WATER SHORTAGE RESPONSE LEVEL 2 – WATER SHORTAGE WATCH CONDITION.

During a Level 2 Water Shortage Watch condition, the District will increase its public education and outreach efforts to emphasize increased public awareness of the need to implement water conservation practices to ensure that no water is wasted, and promote a consumer demand reduction of up to twenty percent (20%).

All persons using District water shall comply with Normal Conditions and Level 1 Water Shortage Notice water conservation practices during a Level 2 Water Shortage Watch, as identified in Sec. 17.8.0 and 17.8.1. Additionally, upon declaration of a Level 2 Water Shortage Watch condition, the District will suspend consideration of annexations to its service area except under the following circumstances:

1. The applicant provides substantial evidence of an enforceable commitment that water demands for the project will be offset prior to the provision of a new water meter(s) to the satisfaction of Fallbrook Public Utility District.

**M E M O**

**TO:** Engineering and Operations Committee  
**FROM:** Aaron Cook, Engineering Manager  
**DATE:** April 17, 2023  
**SUBJECT:** Board notification of emergency declaration for pipe repair on North Main Ave and Acacia Lane

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Description

California Public Contract Code Section 22050 authorizes special contracting procedures in case of an emergency; the General Manager may take immediate action required by the emergency to procure the necessary equipment, services, and supplies for those purposes, without giving notice for bids. However, the GM must report to the Board of Directors with an update at each regularly scheduled meeting to determine that there is a need to continue the action. When the Board reviews the emergency action, it shall terminate the action at the earliest possible date that conditions warrant so that the remainder of the emergency action may be completed by giving notice for bids to let contracts. In the March 2023 meeting of the board, three prequalified contractors were approved for on-call emergency pipeline repair services.

Purpose

Multiple recent leaks have occurred on sections of existing water main on North Main Ave and Acacia Lane, resulting in repeated emergency shutdowns in these areas. To restore reliable service, staff are engaging one of the prequalified contractors for emergency repairs, per the on-call emergency pipeline repair services procedures. The targeted area consists of approximately 300 linear feet of 6-inch water main on North Main and 1,000 linear feet of 6-inch water main on Acacia Lane.

Budgetary Impact

The estimated cost of these repairs is \$600,000. The costs will be covered by the approved capital budget pipeline replacement funds. These pipelines were planned for replacement in the coming year. However, because of the urgent need for replacement, they will be repaired with the current year's pipeline replacement funds while some of the current year's planned replacements will be deferred to the following year due to contractor procurement delays.

Recommended Action

The Committee notify the Board that the emergency declaration declared by the General Manager has resulted in the construction work as documented above.



**M E M O**

**TO:** Engineering and Operations Committee  
**FROM:** Aaron Cook, Engineering Manager  
**DATE:** April 17, 2023  
**SUBJECT:** Pipeline and Valve Replacement Program Update

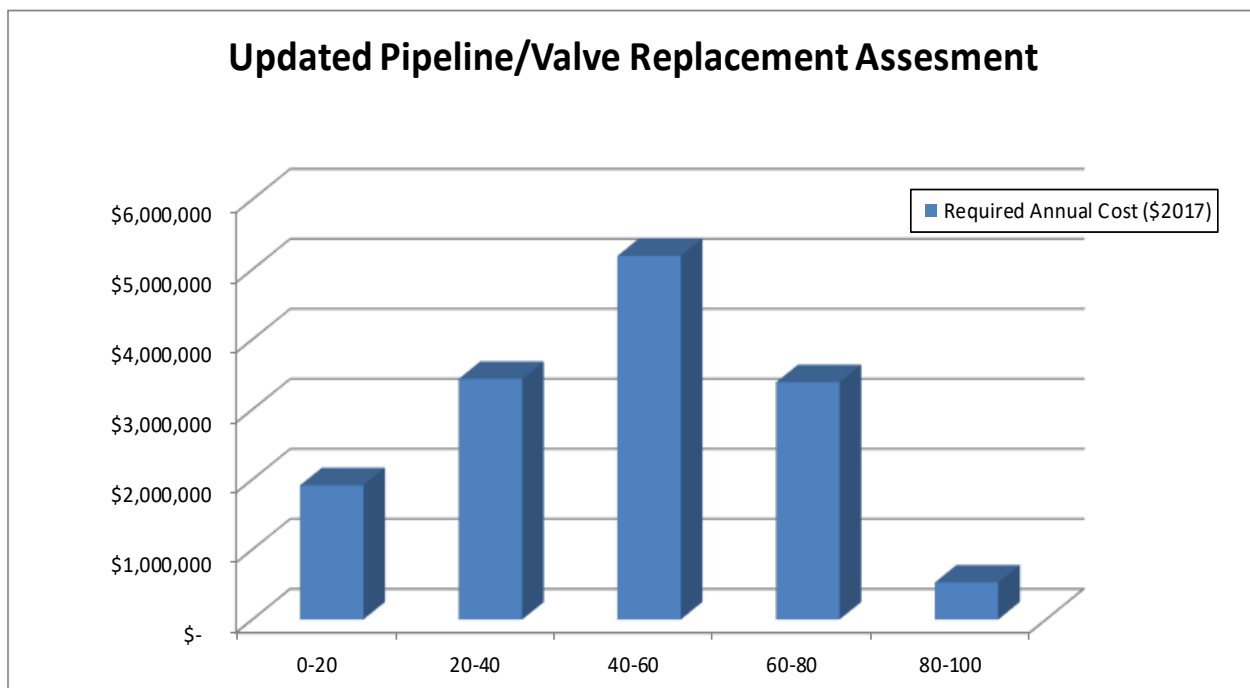
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Description

Update on the status of the District’s pipeline and valve replacement program.

Purpose

A comprehensive asset management plan for the District’s pipelines and valves was developed in 2017 and is updated on an annual basis with the ultimate goal to achieve a 100-year pipeline replacement and 30-year valve replacement cycle. The developed program included escalating replacements in 20-year increments to stay on target as seen in the figure below:



In 2019, staff began reporting pipe and valve replacements separately and, in addition to asset values, began tracking physical length of pipeline replaced. The goal was set at 5,000 linear feet of pipe and 100 valves replaced each year. The following table shows progress since that time:

Year	Pipelines		Valves		Program Costs	
	Goal	Replaced	Goal	Replaced	Budget	Actual
<b>FY 18/19</b>	5,000	4,885	100	57	\$2,438,888	\$2,078,948
<b>FY 19/20</b>	5,000	4,950	100	89	\$2,023,933	\$2,053,042
<b>FY 20/21</b>	8,150	6,620	100	85	\$1,968,000	\$541,592
<b>FY 21/22</b>	7,680	5,670	100	66	\$4,058,000	\$2,913,363
<b>FY 22/23*</b>	7,500	5,900	100	99	\$5,113,350	\$3,306,592

\*Projected year end numbers

### *Pipelines*

The majority of pipeline replacement work is performed by contractors, with District staff performing the design and construction management. Note that in FY20/21, the goal was increased to 8,150 because 3,150 linear feet of pipeline replacement work was included as part of the SMRCUP facilities installation and was funded outside the District's PAYGO CIP funds. While that work was completed, other planned replacements fell behind due to increasing material procurement times that began occurring during the COVID-19 pandemic. In the following years, higher replacement goals were established in an attempt to get back on track with the long-term goal. Again, planned pipeline replacement projects have continued to take longer due to material procurement challenges. In spite of these challenges, over the last five years, more than 28,000 linear feet of water main will have been replaced by the end of the current fiscal year, which is very close to the current goal.

### *Valves*

About two thirds of the valve replacement program is performed by District staff, with the remaining one third of valves replaced as part of contractor pipeline replacement jobs. Staff are working diligently to meet the goal in the current year, but an increase in emergency responses to mainline leaks and a period of backflow thefts over the past two years has made achieving the replacement goal difficult. In an attempt to stay on target, the valve crew, which plays an important role in valve replacement planning and assisting during construction was increased from 2 to 3 staff. The long material lead time has impacted the valve replacement plans as well, with some suppliers unable to deliver valves in less than a full year. In response procurement staff have worked to identify additional suppliers to ensure we have the valves needed to complete planned jobs.

### *Going Forward*

In the March 2023 meeting of the board, an emergency on-call pipeline repair plan was approved with three prequalified contractors available to perform emergency work. With this in place, the District can utilize contractor assistance on more emergency responses, freeing up District crews to stay focused on planned valve replacements.

For pipeline replacements, the District awarded a contract for 9,500 linear feet of water main and 60 valves in August of 2022. That work is just beginning now so will not be fully completed until well into the coming fiscal year (approximately 1,500 linear feet of this planned work is expected to be installed by the end of the current fiscal year). Simultaneously, staff are working on bid packages for approximately 5,500 linear feet of water main replacement in the area of Winterwarm Drive and Via Arroyo, and 9,000 linear feet in the downtown area. These two projects will be bid and awarded in the coming year, with the expectation that they all be completed by the end of FY25 even if the long material procurement times continue. This will put the pipeline and valve replacement program on track to be well ahead of goal within the next two years.

Other ideas to help keep the program on track include hiring design consultants to prepare project plans and construction documents, hiring additional engineering and field staff, or contracting more valve replacement work. However, these measures don't appear necessary at this time. If the planned work outlined above continues to progress slower than anticipated, these additional measures can be considered at that time.

#### Budgetary Impact

No budgetary impact; the pipeline and valve replacement program is currently tracking below the planned budget. Any changes to the program carried forward would be part of the overall capital program process and budget.

#### Recommended Action

For discussion only; no recommended action.