



EAST VALLEY WATER DISTRICT

LEADERSHIP • PARTNERSHIP • STEWARDSHIP

ENGINEERING AND OPERATIONS COMMITTEE

May 29, 2018 - 2:30 PM

31111 Greenspot Road Highland CA 92346

AGENDA

CALL TO ORDER

PLEDGE OF ALLEGIANCE

PUBLIC COMMENTS

NEW BUSINESS

1. Approve the November 27, 2017 Engineering & Operations Committee meeting minutes
2. Set the day and time to hold recurring committee meetings
3. Operations Report for April 2018
4. Engineering Overview for May 2018

ADJOURN

PLEASE NOTE:

Pursuant to Government Code Section 54954.2(a), any request for a disability-related modification or accommodation, including auxiliary aids or services, that is sought in order to participate in the above-agendized public meeting should be directed to the District Clerk at (909) 885-4900 at least 72 hours prior to said meeting.

Draft pending approval*

**EAST VALLEY WATER DISTRICT
ENGINEERING AND OPERATIONS COMMITTEE MEETING**

NOVEMBER 27, 2017

MINUTES

Ms. Duran called the meeting to order at 2:30 p.m. Mr. Ochoa led the flag salute.

PRESENT: Directors: Coats, Shelton

ABSENT: None

STAFF: Patrick Milroy, Operations Manager; Eliseo Ochoa, Senior Engineer; Martha Duran, Senior Administrative Assistant; Brenda Van Meter, Administrative Assistant

GUEST(s): Ed King

PUBLIC COMMENTS

Ms. Duran declared the public participation section of the meeting open at 2:30 p.m.

There being no written or verbal comments, the public participation section was closed.

APPROVE THE SEPTEMBER 25, 2017 ENGINEERING AND OPERATIONS COMMITTEE MEETING MINUTES

Director Coats motioned that the minutes be approved as submitted and Director Shelton seconded the motion. The minutes were approved.

PLANT 56 VALVE REPLACEMENT

The Operations Manager provided information on a valve replacement at Plant 56; he reviewed the activities involved in the process of replacing the valve, which included hiring a diver to enter the reservoir and inspect the tank, which allowed the District to make the necessary repairs to the valve without having to drain the reservoir. He also explained that reservoir diving is part of the maintenance program and allows the capture of information about the reservoirs while performing repairs in an expedient manner.

OPERATIONS AND MAINTENANCE UPDATE

The Operations Manager presented an update on maintenance and production activities for the month of October 2017; he reviewed charts that represent various activities related to

district operations and maintenance, including the District's preventative maintenance program. He stated that staff is on call 24 hours a day, seven days a week, answering calls and attending to the needs of customers. He also stated that the department is fully staffed and has increased the hydrant maintenance program.

The Operations Manager stated that a minimal amount of State water was purchased to see how it would perform at Plant 134; that the plant is producing a little over 6 million gallons per day and is anticipated to produce to 8 million gallons a day in the future.

CAPITAL IMPROVEMENT PROGRAM UPDATE

The Senior Engineer presented the Capital Improvement Program update. There was a total of 10 projects on the Capital Improvement list for 2017; the AMI (Advanced Metering Infrastructure) project is currently in Phase 2, which means the District is now ready to begin installing meters; the hardware will provide the District with the ability to capture more efficient and accurate meter reads. He reviewed several other projects including: Canal Zone Storage Reservoir, Plant 134 to Upper Zone - Transmission Line, Orange Street Sewer Main Replacement, 4th Street Sewer Main Replacement, Paloma Road Phase 2 Sewer Main Replacement, City Creek Manhole Relocation, and the Sterling Natural Resource Center. He also stated that Plant 9 was originally going to be rehabilitated, but the project has been deferred at this time.

ADJOURN

The meeting adjourned at 3:22 p.m.

*These minutes were approved based on the needs of necessity.

James Morales
Governing Board Member

Phillip Goodrich
Governing Board Member



EAST VALLEY WATER DISTRICT

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STAFF REPORT

Agenda Item #3.
Meeting Date: May 29, 2018
Discussion Item

To: ENGINEERING AND OPERATIONS COMMITTEE

From: General Manager/CEO

Subject: Operations Report for April 2018

RECOMMENDATION:

This report is provided to the Engineering and Operations Committee for its information only.

BACKGROUND / ANALYSIS:

The Operations Department uses a variety of tools and methods to monitor and track all maintenance activities that occur within the department. The attached report provides data for January through April of 2018. Monitoring these items ensures that the department is on track to achieve the goals and objectives for each year and to develop historical records for important items including water production, water source, and energy usage. By comparing the present year to the prior year average, we have a fact-based understanding of water usage, conservation efforts, and how efficient energy is used within the District which assists us in developing the next years' operating budget.

Many maintenance activities are also tracked and monitored such as leak repair, valve and fire hydrant maintenance, sewer main line cleaning and sewer main line camera. These are important indicators of our reactive versus proactive efforts and are used in the development of capital improvement projects. Most of the activities are routine and preventative maintenance performed every day to ensure that the District's infrastructure is in top shape. Every year maintenance activities are scheduled and the monthly monitoring ensures these goals are met. Leak repair is a reactive activity and usually associated with aging water pipes. Tracking leak repairs provides valuable insight into the areas that are in most need of considering a Capital Improvement Project.

AGENCY GOALS AND OBJECTIVES:

Goal and Objectives IV - Promote Planning, Maintenance and Preservation of District Resources

- b) Enhance Planning Efforts that Respond to Future Demands
- c) Dedicate Efforts Toward System Maintenance and Modernization

REVIEW BY OTHERS:

This agenda item has been reviewed by the executive management team.

FISCAL IMPACT

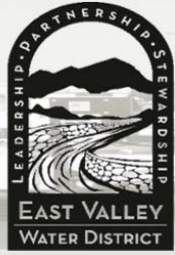
There is no fiscal impact associated with this agenda item.

Respectfully submitted:

Patrick K. Milroy
Operations Manager

ATTACHMENTS:

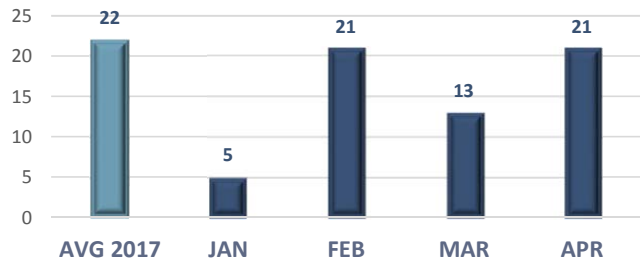
Description	Type
April 2018 Charts	Backup Material



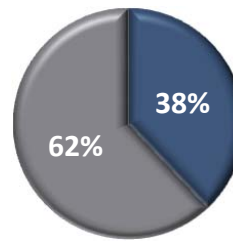
FIELD MAINTENANCE REPORT APRIL 2018

Distribution System Water Leaks

Total Leaks Services & Repaired



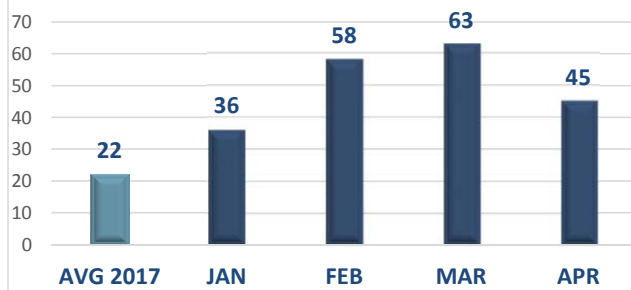
Total Leaks (YTD) = 60



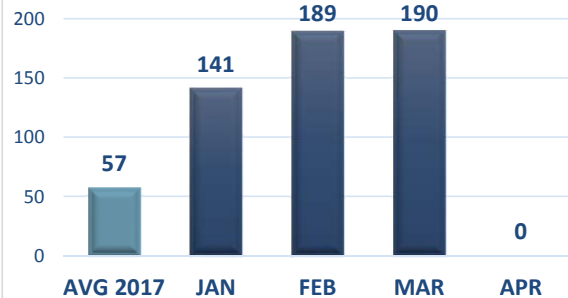
Total Leaks for
April = 21
Service Leaks = 13
Main Leaks = 8

■ Main Leaks ■ Service Leaks

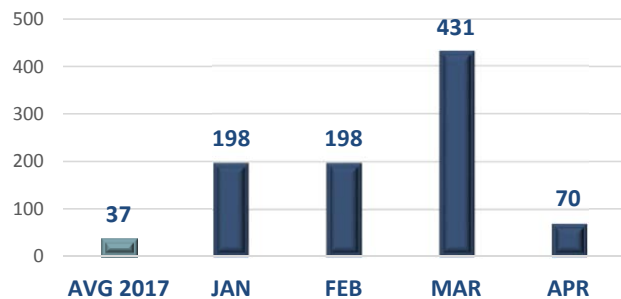
YTD Hydrants Flushed = Total 202



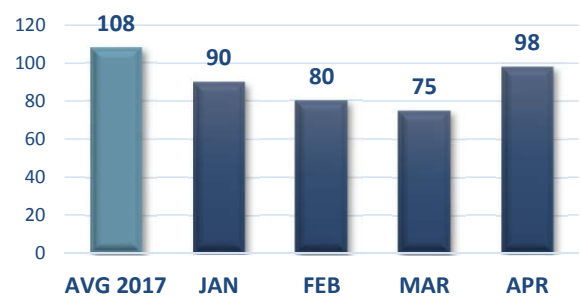
YTD Valves Exercised = 520



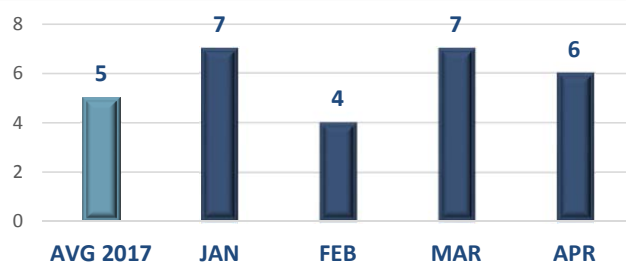
YTD Hydrants Serviced
(Repaired, Replaced, Painted) = 897



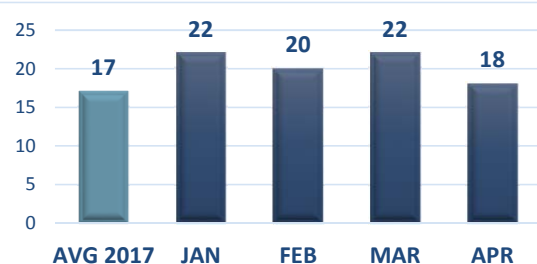
YTD After Hours Call-Outs = 343

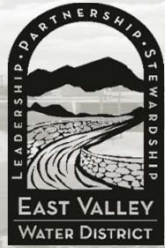


YTD Miles of Sewer Video = 24



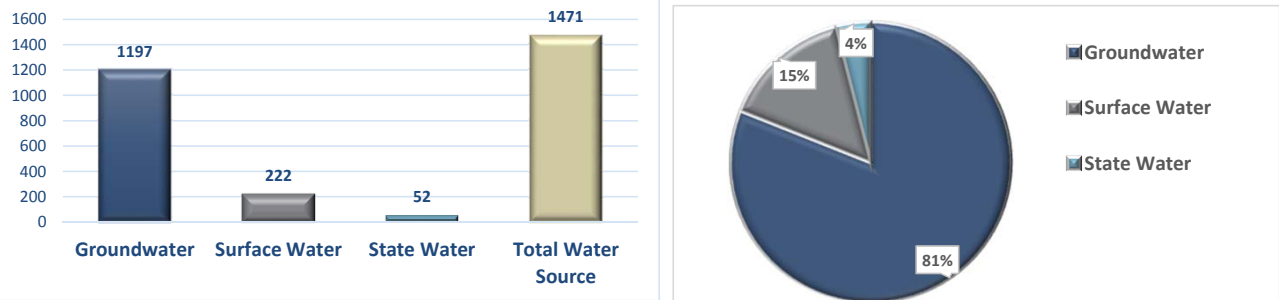
YTD Miles of Sewer Main Cleaned = 82





PRODUCTION OPERATIONS REPORT APRIL 2018

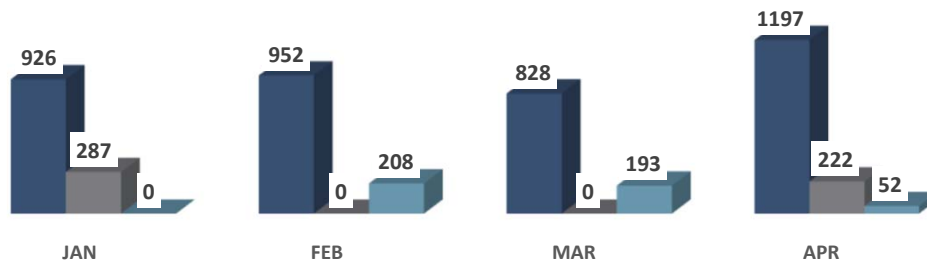
Water Supply (Acre-Feet)



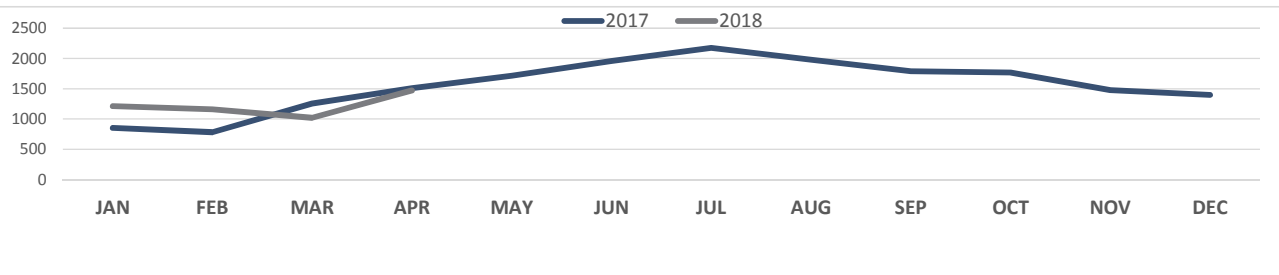
YTD Groundwater = 3,903 AF / Surface Water = 509 AF / State Water = 453 AF

Water Production by Month (AF)

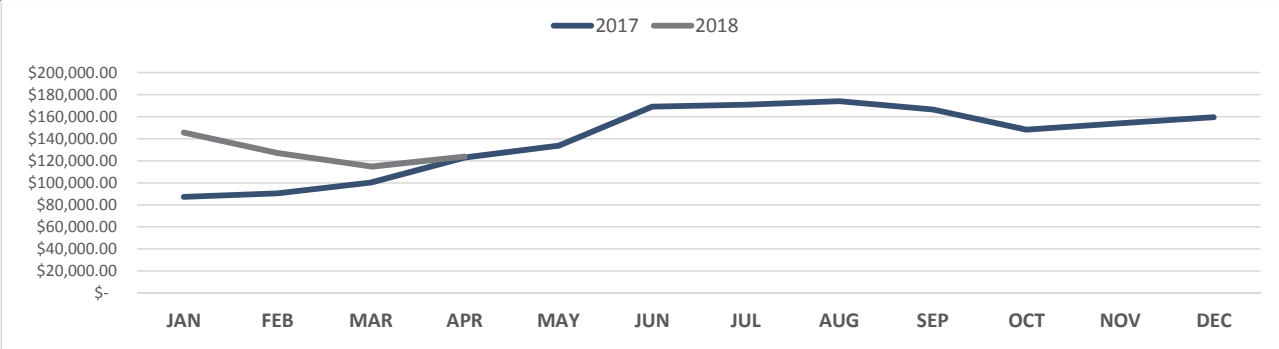
■ Groundwater ■ Surface Water ■ State Water



Water Demand Trend 2017 vs. 2018 (AF)



Energy Cost Trend





EAST VALLEY WATER DISTRICT

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STAFF REPORT

Agenda Item #4.
Meeting Date: May 29, 2018
Discussion Item

To: ENGINEERING AND OPERATIONS COMMITTEE

From: Director of Engineering & Operations

Subject: Engineering Overview for May 2018

RECOMMENDATION:

This report is provided to the Engineering and Operations Committee for its information only.

BACKGROUND / ANALYSIS:

Engineering is responsible for planning and overseeing infrastructure projects designed to maintain safe and reliable water and wastewater services.

Staff manages the capital improvement program, coordinates with new development, and provides technical support for the infrastructure system.

The Engineering and Operations Committee meetings have been used as a forum for the Engineering Department to provide updates on projects in the planning, design, construction, commissioning, or operating phase. Also, these meetings can be used to inform the Committee about technologies that have relevance to the District.

An example of a project update for a recently completed project that is now in the operating phase is given below.

Plant 134 Hydroelectric System:

- System includes two turbines (see Exhibit 1). One turbine has a rated output of 175 kilowatts (kW), and the second turbine's output is 45kW.
- The commissioning phase was recently completed.

AGENCY GOALS AND OBJECTIVES:

Goal and Objectives I - Implement Effective Solutions Through Visionary Leadership

a) Identify Opportunities to Optimize Natural Resources

Goal and Objectives IV - Promote Planning, Maintenance and Preservation of District Resources

a) Develop Projects and Programs to Ensure Safe and Reliable Services

REVIEW BY OTHERS:

This agenda item has been reviewed by the executive management team.

FISCAL IMPACT

There is no fiscal impact associated with this agenda item.

Respectfully submitted:

Jeff Noelte
Director of Engineering & Operations

ATTACHMENTS:

Description	Type
Plant 134 Hydroelectric	Backup Material

Exhibit 1: One of two hydroelectric generation units at Plant 134.

