



## AGENDA

# EAST ORANGE COUNTY WATER DISTRICT ENGINEERING AND OPERATIONS COMMITTEE MEETING

**Thursday, November 16, 2023 at 4:30 P.M.  
185 N. McPherson Road, Orange, California**

1. Call meeting to order
2. Public communications to the Committee
3. Additional items arising after posting of agenda

#### Informational Items

4. RZ System Status, Well Levels, and Water Use
5. WZ System Status and Water Use
6. Sewer System Status and Permit Reports
7. Circula Panorama Pipeline Replacement and Customer PRV Installation Projects
8. Sharon Lane Lift Station

#### Action Items

9. District Headquarters Building – Emergency Backup Generator
10. Brae Glen Pipeline Replacement – Construction Award
11. Vista Panorama Site Grading – Construction Awards
12. Rockhurst Sewer Liner Removal – Change order
13. On-Call Construction Awards
14. Adjournment

Members of the public shall be permitted to speak as to both agendized and non-agendized items, as reflected in the agenda. Those wishing to speak may submit a speaker request or by verbally indicating their desire to comment at the time the item is called. Additionally, members of the public may, but are not required to, e-mail comments to Sylvia Prado at [sprado@eocwd.com](mailto:sprado@eocwd.com) up to 30 minutes before the Committee meeting, and such comments shall be provided to the Board.

Members of the public wishing to attend the meeting that require disability-related or other reasonable modifications or accommodation to facilitate such attendance should contact Ms. Prado at (714) 538-5815 or the e-mail provided as soon as feasible before the meeting to make such request.

Availability of agenda materials: Agenda exhibits and other writings that are disclosable public records distributed to all or a majority of the members of the East Orange County Water District Engineering & Operations Committee in connection with a matter subject to discussion or consideration at an open meeting of the Engineering & Operations Committee are available for public inspection in the District's office, 185 McPherson Road, Orange, California ("District Office"). If such writings are distributed to members of the Committee less than 72 hours prior to the meeting, they will be available via phone or email request to Ms. Sylvia Prado at (714) 538-5815 or [sprado@eocwd.com](mailto:sprado@eocwd.com).

# MEMO

**TO: ENGINEERING AND OPERATIONS COMMITTEE**  
**FROM: GENERAL MANAGER**  
**SUBJECT: RETAIL ZONE SYSTEM STATUS, WELL LEVELS, AND WATER USE**  
**DATE: NOVEMBER 16, 2023**

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## Background

This memo serves as cover for the water use report. The OCWD Quarterly PFAS Update report is also attached and the Well Pumping and Static Water Level Report will be handed out at the meeting.

## Recommendation

Information Only

Attachment(s): RZ Water Use Report  
OCWD Quarterly PFAS Update

# East Orange County Retail Zone Water Usage Report

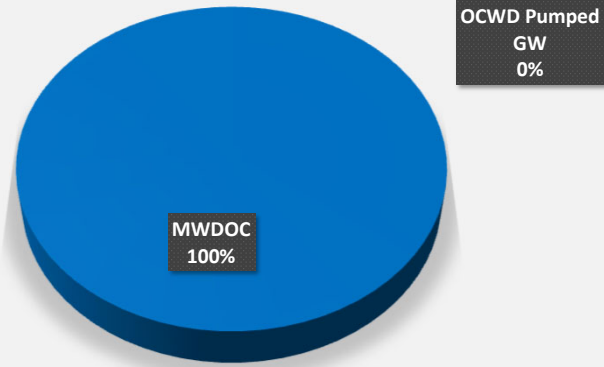
## East Orange County Retail Zone Overview of Usage FY 2023-24 Monthly Water Use

Type of Supply	July	August	September	October	November	December	January	February	March	April	May	June	Total
MWDOC	82	85	76	77	-	-	-	-	-	-	-	-	320
OCWD Pumped GW	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>82</b>	<b>85</b>	<b>76</b>	<b>77</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>320</b>

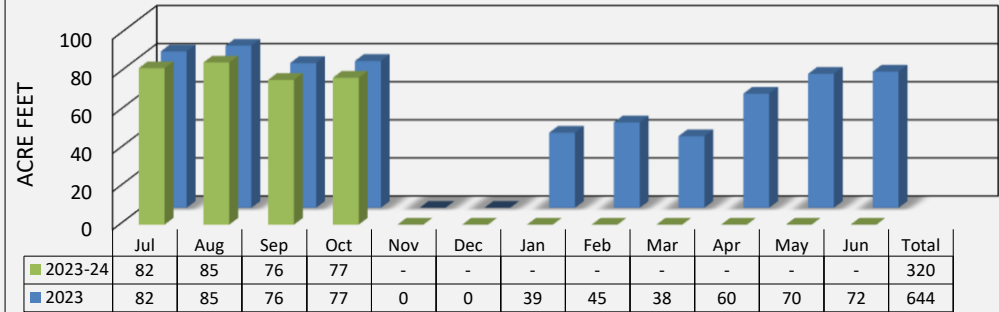
  

2023 MWDOC Usage	July	August	September	October	November	December	January	February	March	April	May	June	Total
	82	85	76	77	0	0	39	45	38	60	70	72	644

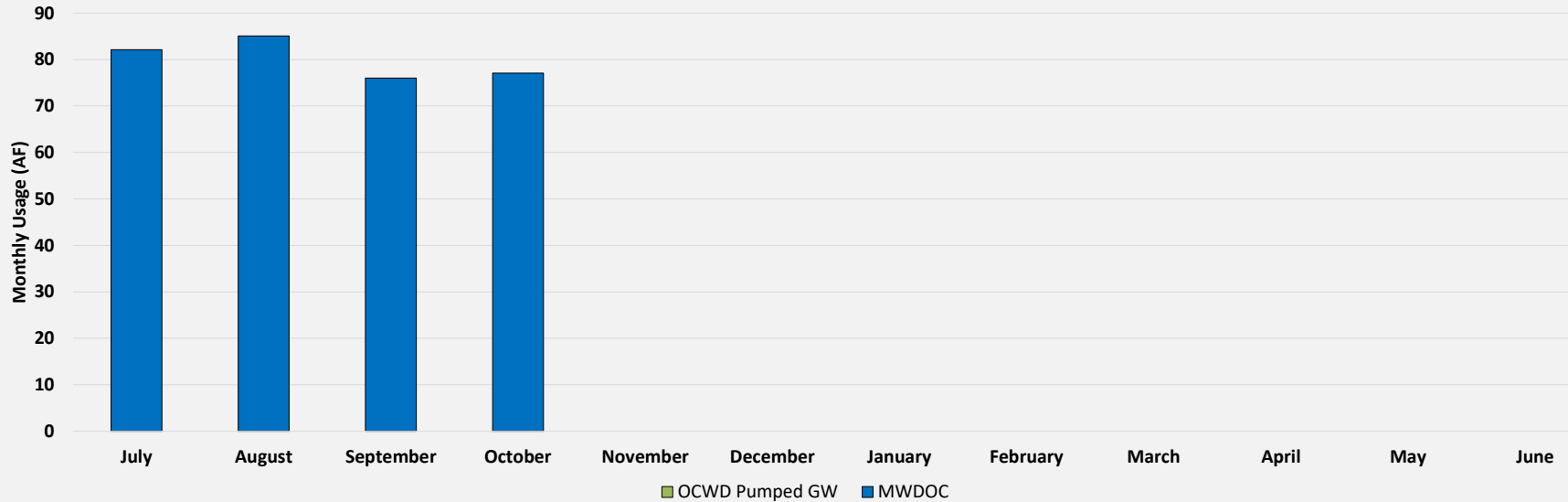
**2023-24 Sources of Water**



**MWDOC Calendar Year and Fiscal Year Purchases**



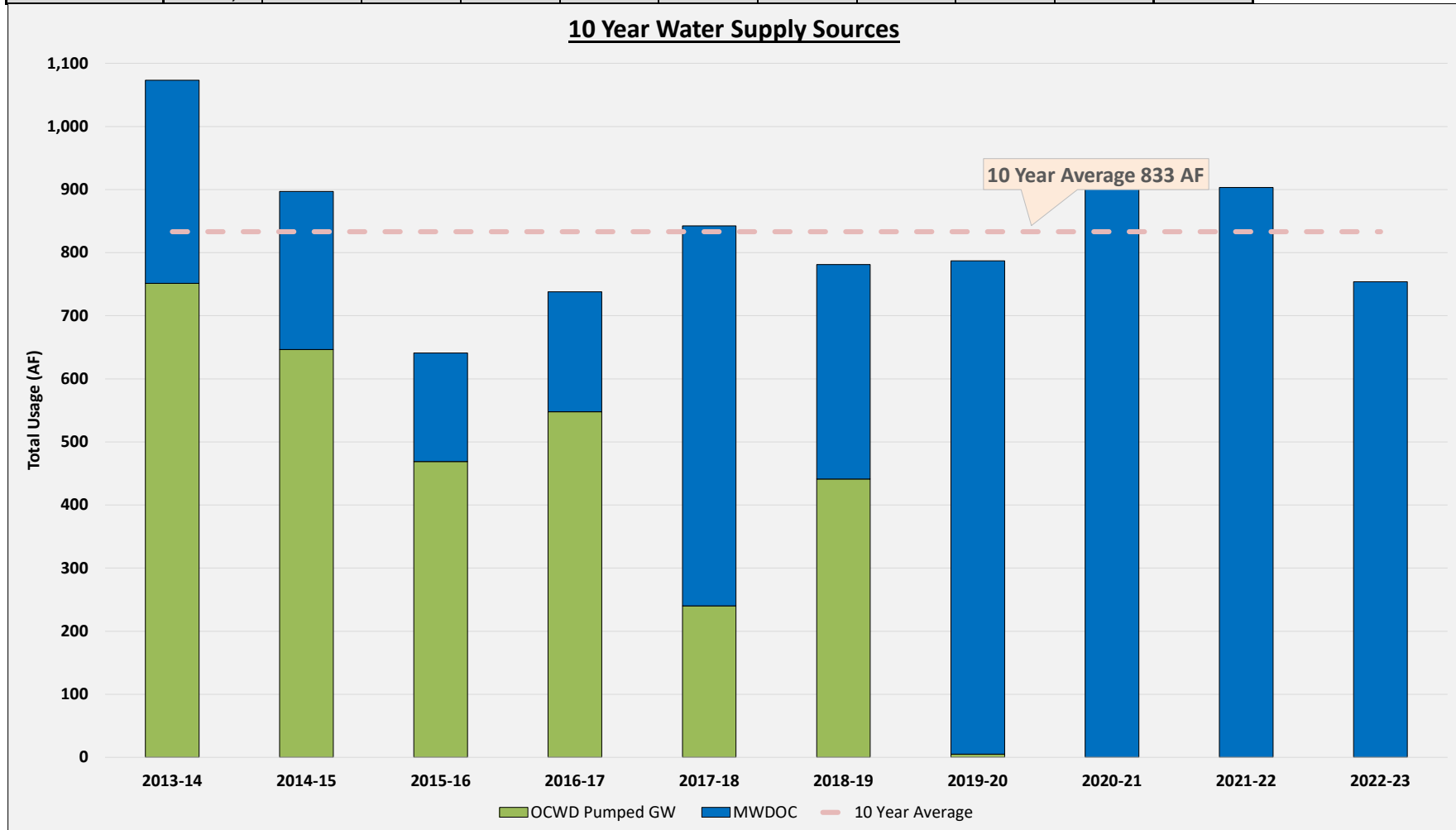
**2023-24 Monthly Water Supply Sources**



# East Orange County Retail Zone Water Usage Report

## Annual Water Usage

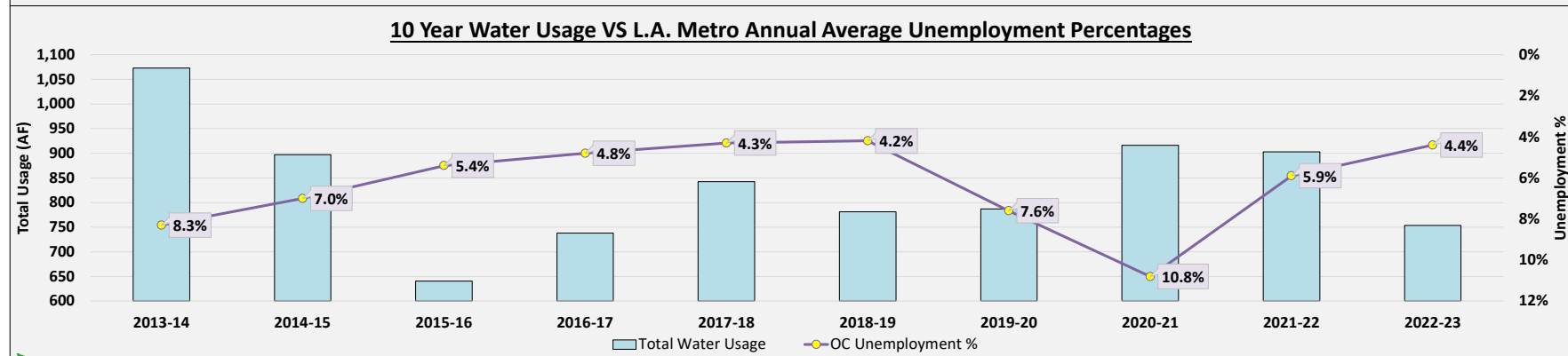
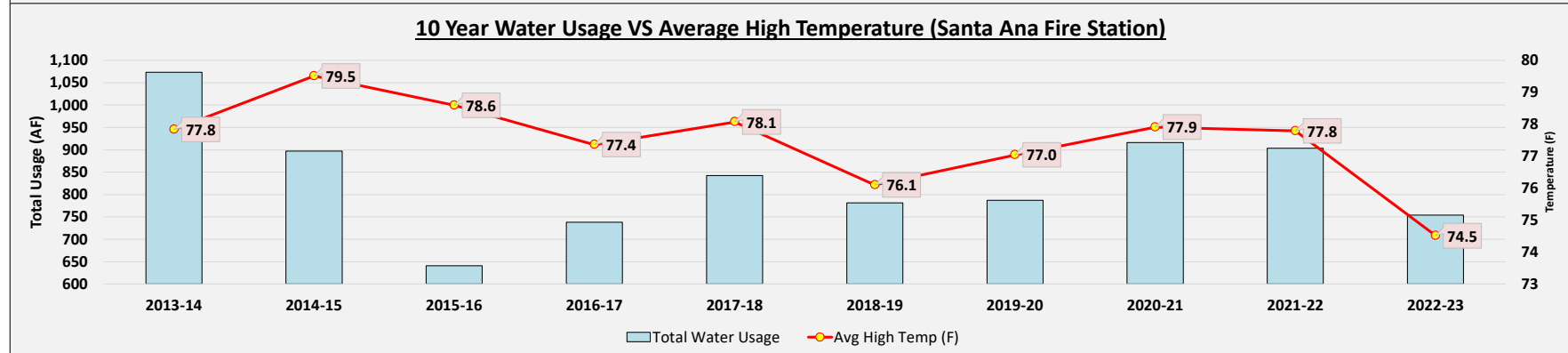
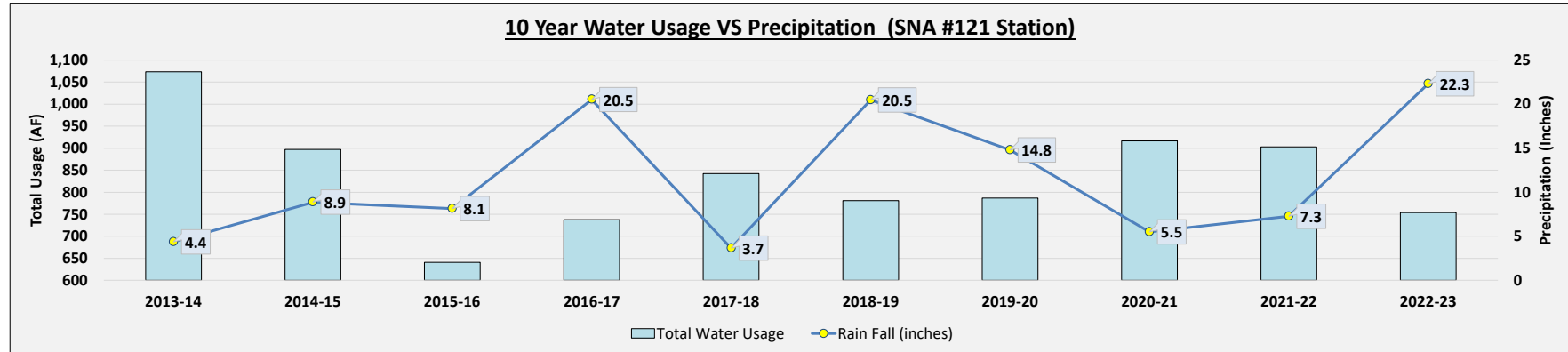
Type of Supply	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	Average
MWDOC	322.0	250.7	172.1	190.2	602.1	340.0	781.8	916.4	903.3	753.9	523.3
OCWD Pumped GW	751.3	646.3	468.8	547.8	240.2	441.3	5.2	0.0	0.0	0.0	310.1
<b>Total</b>	<b>1,073</b>	<b>897</b>	<b>641</b>	<b>738</b>	<b>842</b>	<b>781</b>	<b>787</b>	<b>916</b>	<b>903</b>	<b>754</b>	<b>833</b>



# East Orange County Retail Zone Water Usage Report

## Water Usage Variables

Type of Supply	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	Average
Rain Fall (inches)	4.4	8.9	8.1	20.5	3.7	20.5	14.8	5.5	7.3	22.3	11.6
Avg High Temp (F)	77.8	79.5	78.6	77.4	78.1	76.1	77.0	77.9	77.8	74.5	77.5
OC Unemployment %	8.3%	7.0%	5.4%	4.8%	4.3%	4.2%	7.6%	10.8%	5.9%	4.4%	6.3%
<b>Total Water Usage</b>	<b>1,073</b>	<b>897</b>	<b>641</b>	<b>738</b>	<b>842</b>	<b>781</b>	<b>787</b>	<b>916</b>	<b>903</b>	<b>754</b>	<b>833</b>



# East Orange County Retail Zone Water Usage Report

## East Orange County Retail Zone Detailed Usage Historical Monthly Potable Usage (Fiscal Year, July-June)

Fiscal Year	July	August	September	October	November	December	January	February	March	April	May	June	Total
2017-18 Usage	87	98	77	81	60	70	53	49	45	67	71	84	842
2018-19 Usage	107	99	85	73	62	40	47	29	43	61	59	77	781
2019-20 Usage	82	87	86	83	68	46	47	56	38	52	67	76	787
2020-21 Usage	90	99	93	90	74	68	62	54	43	64	84	95	916
2021-22 Usage	100	102	89	76	73	48	55	62	69	72	78	79	903
2022-23 Usage	84	87	81	68	57	53	39	45	38	60	70	72	754
<b>Average of Last 6 FYs</b>	<b>92</b>	<b>96</b>	<b>85</b>	<b>79</b>	<b>66</b>	<b>54</b>	<b>51</b>	<b>49</b>	<b>46</b>	<b>63</b>	<b>72</b>	<b>80</b>	<b>831</b>
Monthly Usage Percentage	11%	12%	10%	9%	8%	7%	6%	6%	6%	8%	9%	10%	100%

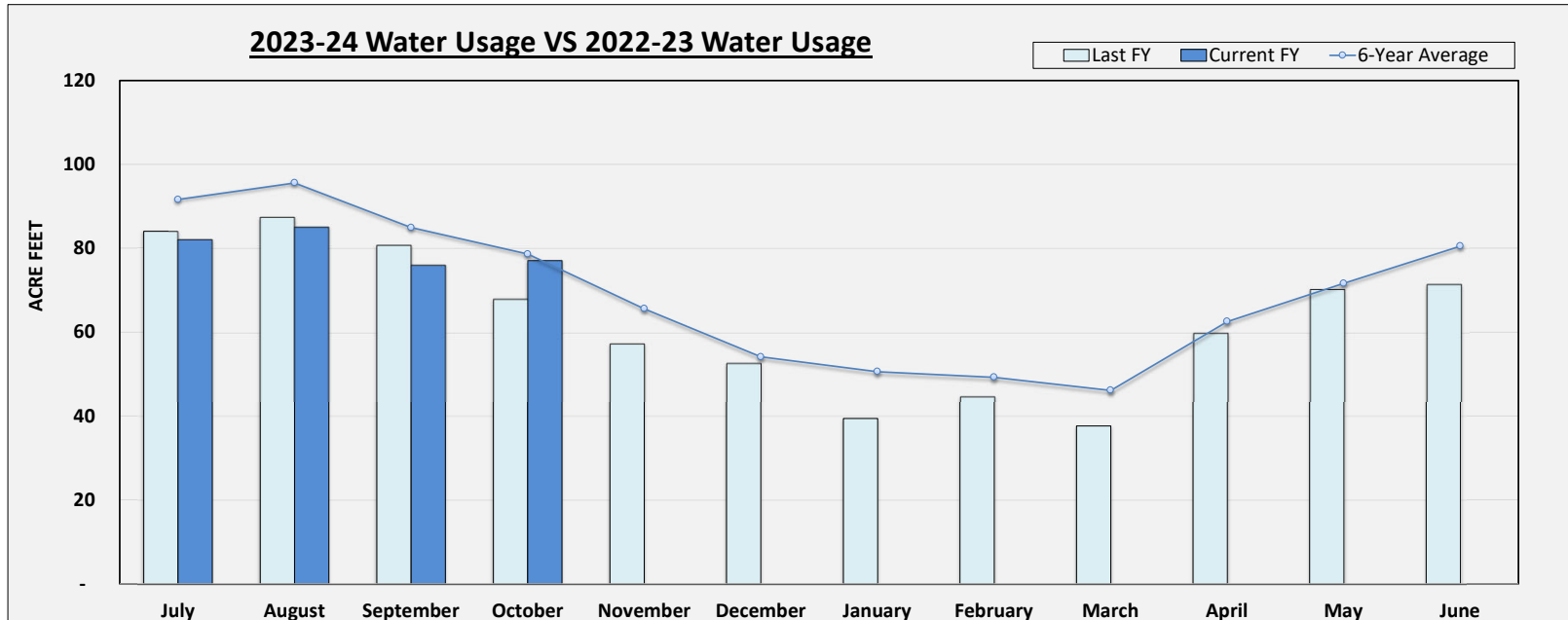
## Water Usage By Source

Imported	July	August	September	October	November	December	January	February	March	April	May	June	Total
MWD via EO Wholesale	82.1	85.1	76.0	77.1									320.3
Water from IRWD during OC-70 shutdown	-	-	-	-									-
CPTP	-	-	-	-									-
MWD In-Lieu*	-	-	-	-									-
<b>Imported Total</b>	<b>82</b>	<b>85</b>	<b>76</b>	<b>77</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>320.3</b>

\*In-lieu totals are subtracted from imported totals

Local	July	August	September	October	November	December	January	February	March	April	May	June	Total
OCWD Pumped GW	-	-	-	-									-
Less Fill up Reservoir	-	-	-	-									-
Less CPTP	-	-	-	-									-
<b>Local Total (minus reservoir)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

<b>Total Usage 2023-24</b>	<b>82</b>	<b>85</b>	<b>76</b>	<b>77</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>320</b>
FY 22-23 versus FY 23-24	-2%	-3%	-6%	+13%									

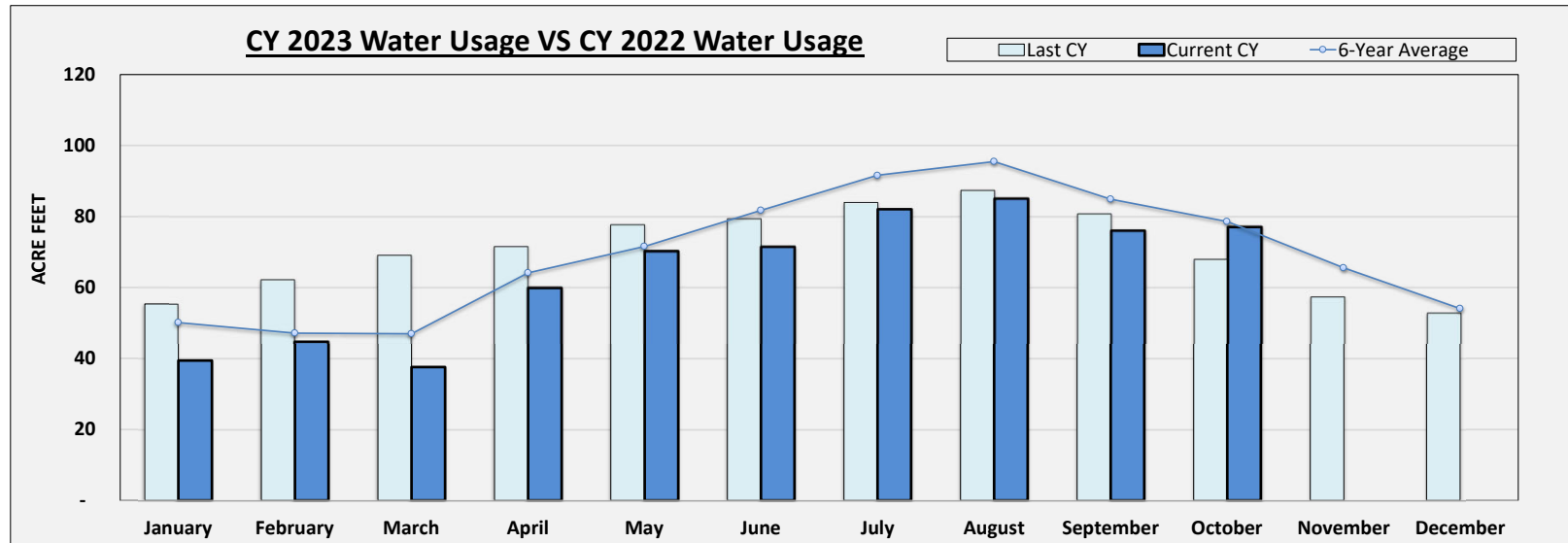


# East Orange County Retail Zone Water Usage Report

## Historical Monthly Potable Usage (Calendar Year)

Calendar Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2017	37	32	43	70	70	79	87	98	77	81	60	70	803
2018	53	49	45	67	71	84	107	99	85	73	62	40	835
2019	47	29	43	61	59	77	82	87	86	83	68	46	767
2020	47	56	38	52	67	76	90	99	93	90	74	68	849
2021	62	54	43	64	84	95	100	102	89	76	73	48	891
2022	55	62	69	72	78	79	84	87	81	68	57	53	846
6 year Average	50	47	47	64	72	82	92	96	85	79	66	54	832

Total Water Usage 2023	39	45	38	60	70	72	82	85	76	77	-	-	644
2023 VS 2022 Usage	-29%	-28%	-46%	-16%	-10%	-10%	-2%	-3%	-6%	+13%			



	Population	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2022 Usage (AF)		55	62	69	72	78	79	84	87	81	68	57	53	846
2022 GPCD	3,515	166	206	207	221	232	245	251	261	250	203	177	158	215
2023 Usage (AF)		39	45	38	60	70	72	82	85	76	77	-	-	644
2023 GPCD	3,534	117	148	112	184	209	220	244	253	234	229	-	-	195
CY over CY change in GPCD		-48	-58	-95	-37	-23	-26	-7	-8	-16	+26			-20

	Population	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
2022-23 Usage (AF)		84	87	81	68	57	53	39	45	38	60	70	72	754
2022-23 GPCD	3,515	251	261	250	203	177	158	118	148	112	185	210	221	191
2023-24 Usage (AF)		82	85	76	77	-	-	-	-	-	-	-	-	320
2023-24 GPCD	3,534	244	253	234	229	-	-	-	-	-	-	-	-	240
FY over FY change in GPCD		-7	-8	-16	+26									+49

\*Cumulative through the end of the last month shown

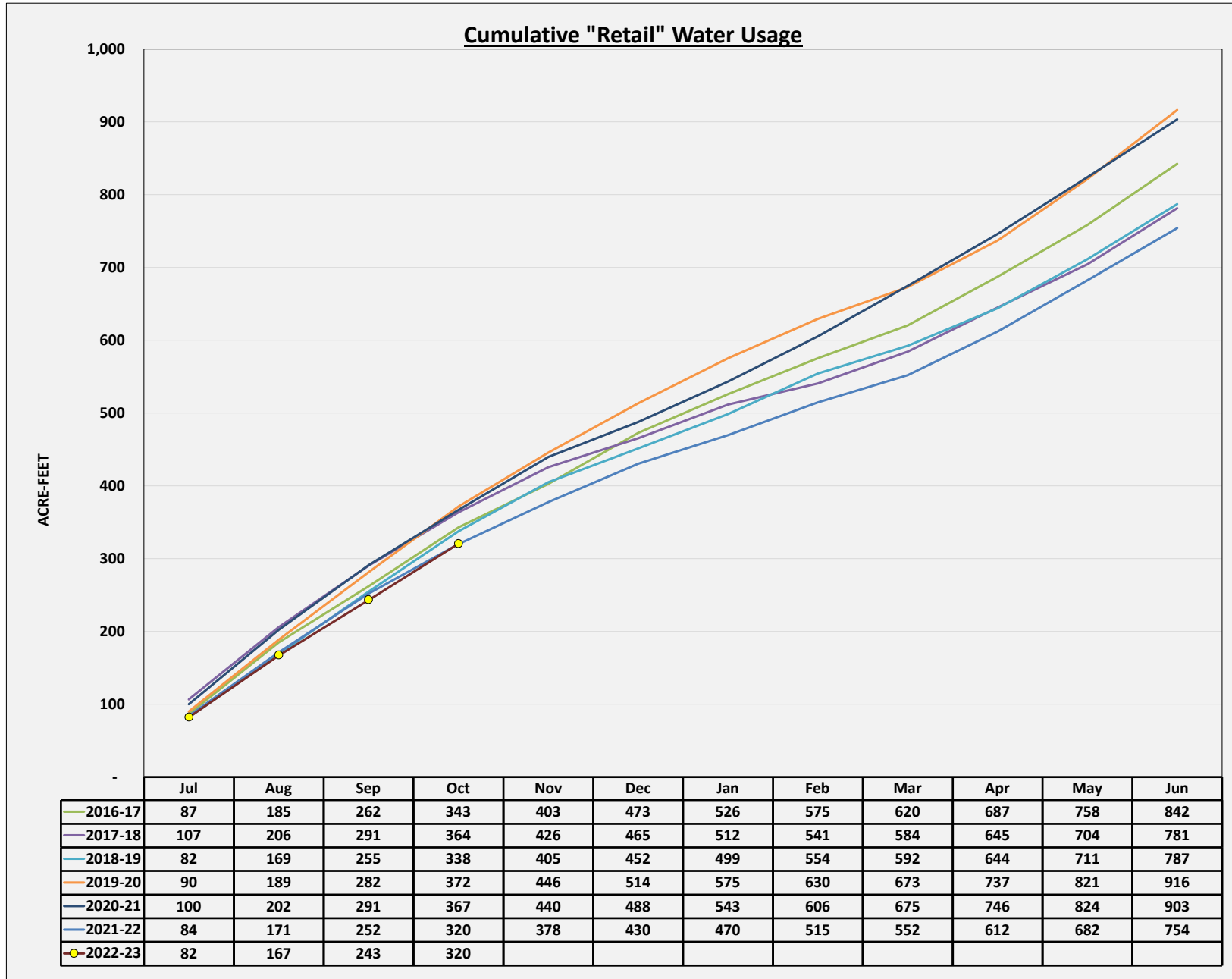
\*GPCD = (Total Monthly Production - Fill up Reservoir) / Population/days in the month

\*For the months of July 2022 through September 2022, groundwater usage was not delivered to customers and is not counted towards GPCD



# East Orange County Retail Zone Water Usage Report

Cumulative Water Usage by Fiscal Year



# Quarterly PFAS Update

Fall 2023



PFAS have been detected in the Orange County Groundwater Basin managed by the Orange County Water District (OCWD), which provides 85% of the water supply to 2.5 million people. OCWD and its local water suppliers continue making significant headway on new PFAS treatment facilities with the goal of getting all wells back online by 2024 at a capital cost of \$300 million.



**18,633,829,740**  
gallons  
of water treated  
to date

\*as of 8/31/2023



## PFAS IMPACTS IN ORANGE COUNTY

There are **61** impacted wells in Orange County. **9** treatment facilities in design, **22** under construction and **30** now operational.

## Important Happenings

## Discussing Local Impacts of EPA Proposed Federal Standards for PFAS

Spectrum News recently interviewed Orange County Water District's executive director of water quality and technical resources, **Jason Dadakis**, and UC Irvine professor of environmental and occupational health, **Scott Bartell**, to discuss the EPA's proposal for setting federal standards and what is being done locally to address PFAS contamination.

View the segment here:



## Key Senate Committee Hearing Focuses on CERCLA Liability Exemption

On September 7, the Senate Committee on Environment and Public Works held a hearing entitled, **Implementing IJJA: Perspectives on Drinking Water and Wastewater Infrastructure Act, Part II**, to hear from nonfederal stakeholders on the status of implementation of the law's water sector investments, and how the government can improve implementation and continue to support federal water infrastructure programs. However, the hearing's discussion focused on the threat PFAS poses to the affordability of water treatment and management of biosolids barring CERCLA liability exemption.

Committee staff will continue to work on the Draft PFAS Proposal legislative package.

## OC Water Provider Highlight: City of Santa Ana

As part of the OCWD PFAS Program, OCWD is working with the City of Santa Ana to build treatment facilities for 5 of the City's wells which have been impacted by PFAS. Currently one well, located at Mabury Park and pictured on the right, is operational; one well is about to begin construction and three wells are in the design phase and are expected to be online in the next 15-18 months.

The City of Santa Ana has a total of 20 water production wells. In addition to the five current wells, eight additional wells within the City could be impacted by the U.S. EPA's proposed regulations. OCWD continues to work

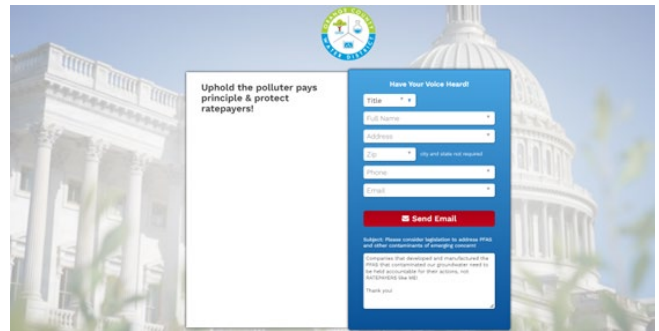


closely with the City to identify future treatment needs.



## Make Your Voice Heard!

Orange County Water District has created a platform – through its **PFAS Education Center** - to help you take action in reaching out to the Orange County federal legislators about the importance of upholding the polluter pays principle and protecting ratepayers from the costs of treating PFAS in our water supplies. You can quickly and easily **fill out this form** to make your voice heard.



# LEGISLATIVE UPDATES

## EPA Target For Finalizing PFAS Superfund Designation Slips By 6 Months

EPA has extended to February 2024 its internal deadline for finalizing a controversial rule to designate the two most-studied PFAS as “hazardous substances” under the Superfund law, a delay of six months from the agency’s previous target, according to the just-released Unified Agenda of regulatory actions.

The agency's target for proposing the addition of PFAS to the Toxics Release Inventory (TRI), as required by the fiscal year 2020 National

## Second Draft of California Public Health Goals for PFOA and PFOS in Drinking Water Were Released in July

The Office of Environmental Health and Hazard Assessment (OEHHA) recently released the **Second Public Review Draft** for the “Proposed Public Health Goals for Perfluorooctanoic Acid and Perfluorooctane Sulfonic Acid in Drinking Water,” proposing a Public Health Goal (PHG) of 0.007 parts per trillion (ppt) for PFOA and 1.0 ppt for PFOS. PHGs are not regulatory standards and do not consider the feasibility of detection or

Defense Authorization Act (NDAA), has also slipped by seven months, while the target to finalize the additional PFAS has slipped by nine months.

The timelines for other PFAS-related rules, however, either remain the same as the last Unified Agenda, or reflect the reality of the rulemaking process, such as now setting a September target to propose a Toxic Substances Control Act (TSCA) reporting rule that is currently undergoing White House interagency review.

treatment. The state Division of Drinking Water will use the final PHGs as the starting points for developing future enforceable standards for PFOA and PFOS in drinking water.

The deadline for public comment was August 28. OEHHA will evaluate all the comments received and revise the document as appropriate. The final document will be posted on the OEHHA [website](#) along with responses to the external peer review comments and to major comments received during the two public comment periods.

## IN THE NEWS

PFAS are not exclusive to Orange County or even California. States across the country are in the midst of tackling PFAS in consumer products, groundwater supplies and other forms of contact. Here's what's happening around the country:

- [Addressing America's PFAS issue cannot wait forever 'Polluter pays' should guide addressing PFAS contamination](#)
- [PFAS settlements: Future of PFAS litigation landscape to be determined by upcoming decision](#)
- [US states withdraw objections to 3M's \\$10.3 billion PFAS settlement](#)
- [The PFAS hits just keep on coming](#)
- [The PFAS hits just keep on coming](#)
- [Opinion: Forever Chemicals Are Everywhere. Companies Need to Get Their Houses In Order.](#)
- [22 Attorney Generals oppose 3M's proposed \\$10.3B settlement over PFAS contaminating public drinking water](#)
- [Small Amount of a PFAS May Weaken Immune Response, EPA Finds](#)
- [Feds Vastly Underestimate Forever Chemical Clean-Up Costs For Water Sector](#)
- [As EPA cracks down on 'forever chemicals,' cities worry about the price tag](#)
- [Risk of tap water exposure to toxic PFAS chemicals higher in Southern California](#)
- [PFAS Lawsuits Could Eclipse the Big Tobacco Settlement](#)
- [A Snapshot of US State-Level Regulatory Developments Restricting or Prohibiting PFAS in Consumer Products in 2023](#)

- [3M agrees to pay over \\$10 billion to settle water pollution suits over 'forever chemicals'](#)
- [Scientists Identify Bacteria Able to Break Down 'Forever Chemicals'](#)

## RESOURCES

[ACWA PFAS Fact Sheet](#)

[UCI PFAS Health Study](#)

[OCWD PFAS Fact Sheet](#)

[EPA PFAS Fact Sheet](#)

[AWWA PFAS Briefing](#)

[National Academies](#)

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The Orange County Water District (OCWD; the District) supplies clean, reliable drinking water to 2.5 million customers every day. OCWD and the local water suppliers in its service area are committed to operating in compliance with all state and federal guidelines and regulatory requirements.

For more information about PFAS, please visit OCWD's [PFAS Education Center](#).

# MEMO

**TO: ENGINEERING AND OPERATIONS COMMITTEE**  
**FROM: GENERAL MANAGER**  
**SUBJECT: WHOLESALE ZONE WATER USE REPORT**  
**DATE: NOVEMBER 16, 2023**

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## Background

This memo serves as cover for the Wholesale Zone water use report.

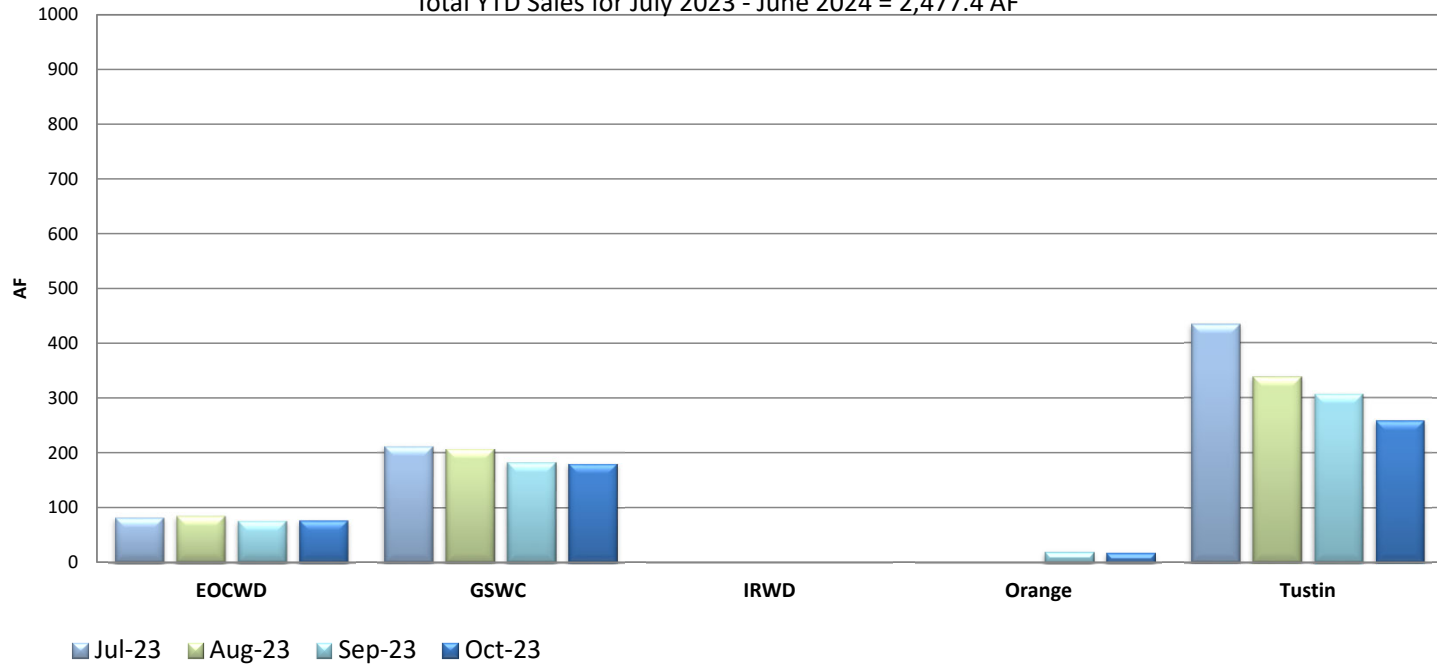
## Recommendation

Information Only

Attachment(s): Wholesale Zone Water Demand and Imported Water Delivery Balance Report

## Wholesale Zone Water Demand

Total Monthly Sales for October 2023 = 533.2 AF  
 Total YTD Sales for July 2023 - June 2024 = 2,477.4 AF



### EOCWD IMPORTED WATER DELIVERY BALANCE - FY22/23

(Acre-feet)

	OC-43	OC-48				OC-70						TOTAL DELIVERIES BY AGENCY				
	MWD Tustin	Retail Zone	Golden State	Tustin	MWD Total	IRWD Jamboree	Orange	Retail Zone	Golden State	Tustin	MWD Total	IRWD OPA	Orange	Retail Zone	Golden State	Tustin
JUL	206.2	0.0	19.2	220.6	239.8	0.0	0.0	82.1	192.9	7.4	282.4	0.0	0.0	82.1	212.1	434.2
AUG	168.8	0.0	17.7	166.4	184.1	0.0	0.0	85.1	189.6	3.4	278.1	0.0	0.0	85.1	207.3	338.6
SEP	156.2	0.0	16.7	147.2	163.9	0.0	18.7	76.0	166.0	4.0	264.7	0.0	18.7	76.0	182.7	307.4
OCT	94.9	0.0	16.7	160.8	177.5	0.0	17.2	77.1	163.3	3.2	260.8	0.0	17.2	77.1	180.0	258.9
NOV												0.0	0.0	0.0	0.0	0.0
DEC												0.0	0.0	0.0	0.0	0.0
JAN												0.0	0.0	0.0	0.0	0.0
FEB												0.0	0.0	0.0	0.0	0.0
MAR												0.0	0.0	0.0	0.0	0.0
APR												0.0	0.0	0.0	0.0	0.0
MAY												0.0	0.0	0.0	0.0	0.0
JUN												0.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>626.1</b>	<b>0.0</b>	<b>70.3</b>	<b>695.0</b>	<b>765.3</b>	<b>0.0</b>	<b>35.9</b>	<b>320.3</b>	<b>711.8</b>	<b>18.0</b>	<b>1086.0</b>	<b>0.0</b>	<b>35.9</b>	<b>320.3</b>	<b>782.1</b>	<b>1339.1</b>

# MEMO

**TO: ENGINEERING AND OPERATIONS COMMITTEE**  
**FROM: GENERAL MANAGER**  
**SUBJECT: SEWER SYSTEM STATUS AND PERMIT REPORT**  
**DATE: NOVEMBER 16, 2023**

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## Background

There were no sewer spills in September or October. The monthly Permit Reports for September and October are attached.

## Recommendation

Information Only

Attachment(s): Permit Reports

**September 2023 - Permits**

Connection Address	Type of Development	Permit No	APN	Date Issued	Sewer				Wholesale Zone	Retail Zone	Total
					Regional CFCC (OCSD) Fees	Local Sewer Capacity Fees	Inspection	Total Sewer			
520 Pacific St. Tustin, CA 92780	ADU (N)	23-063	401-371-01	9/15/2023	\$ 1,272.75	\$ -	\$ -	\$ -	\$ -	\$ -	
15642 Pasadena Ave. Tustin, CA 92780	MFR (E) ADU (N)	23-064	402-171-02	9/20/2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
1065 Bonita, Tustin, CA 92780	WZ Meter Upsize	WZ2023-070	500-152-06	9/11/2023	\$ -	\$ -	\$ -	\$ -	\$ 719.00	\$ 719.00	
12362 Eveningside Dr., Santa Ana, 92705	ADU (N)	23-071	104-334-08	9/5/2023	\$ 282.15	\$ 896.13	\$ -	\$ 1,178.28	\$ -	\$ 1,178.28	
12286 Media Panorama, Santa Ana, CA 92705	SFR (R)	23-074	094-203-06	9/27/2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Totals</b>					<b>\$ 1,554.90</b>	<b>\$ 896.13</b>	<b>\$ -</b>	<b>\$ 1,178.28</b>	<b>\$ 719.00</b>	<b>\$ 1,897.28</b>	

**September 2023 - In the Pipeline**

Connection Address	Type of Development	Permit No	APN	Permit Status
16791 McFadden Ave. Tustin, CA 92780	Commercial	22-097	402-301-08	Pending customer payment and signature
12822 Fairhaven Ext. Santa Ana, CA 92705	SFR (N)	23-045	393-032-21	Pending revised plans
168 N. A St. Tustin, CA 92780	ADU (N)	23-055	401-522-20	Pending revised plans
1362 Tiki Cir. Tustin, CA 92780	ADU (N)	23-057	500-122-24	Pending customer response
4725 E. Chapman Ave. Orange, CA 92869	Commercial (N)	23-061	383-272-04	Pending customer payment and signature
13972 Sandhurst Pl. Santa Ana, CA 92705	SFR (R)	23-065	395-481-27	Pending customer payment and signature
12932 Rosalind Dr. Santa Ana, CA 92705	SFR	23-067	094-344-22	Pending customer revised plan
12172 Ranchwood Rd. Santa Ana, CA 92705	ADU (N)	23-068	104-445-05	Pending customer payment and signature
12282 Newport Ave. Santa Ana, CA 92705	ADU (N)	23-069	501-031-92	Pending customer payment and signature
1277 N. Kennymead St. Orange, CA 92869	ADU (N)	WZ2023-070	379-172-03	Pending customer payment and signature
10675 Equestrian Dr. Santa Ana, CA 92705	SFR (R)	23-070	503-201-05	Pending customer payment and signature
1065 Bonita, Tustin, CA 92780	WZ Upsize	WZ2023-072	500-152-06	Pending customer payment and signature
12221 Circula Panorma, Santa Ana, CA 92705	ADU (N) JADU (N)	23-077	094-212-06	Pending customer payment and signature
14062 Carfax Ave. Tustin, CA 92780	SFR ADU	WZ2023-099	432-065-16	Pending customer payment and signature
350 Pasadena Ave. Tustin, CA 92780	ADU	23-081	401-543-16	Pending customer revised plan
17742 Linda Ln. Santa Ana, CA 92705	SFR (R)	23-082	395-283-03	Pending customer payment and signature
19201 Barrett Ln. Santa Ana, CA 92705	SFR	23-083	393-041-09	Pending customer payment and signature
2151 la Cuesta Dr. Santa Ana, CA 92705	Septic to Sewer	23-084	502-333-05	Pending customer revised plan
1131 Foothill Blvd. Santa Ana, CA 92705	Septic to Sewer	23-085	502-252-12	Pending customer revised plan
16584 Lorelei Ln. Tustin, CA 92780	MFR (E) ADU (N)	23-086	401-271-14	Pending customer payment and signature

R - Remodel  
N - New  
E - Existing

**October 2023 - Permits**

Connection Address	Type of Development	Permit No	APN	Date Issued	Sewer				Wholesale Zone	Retail Zone	Total
					Regional CFCC (OCSD) Fees	Local Sewer Capacity Fees	Inspection	Total Sewer			
12172 Ranchwood Rd. Santa Ana, CA 92705	ADU (N)	23-068	104-445-05	10/26/2023	\$ -	\$ 2,735.45	\$ -	\$ 2,735.45	\$ -	\$ -	\$ 2,735.45
14062 Carfax Ave. Tustin, CA 92780	ADU (N)	23-060A	432-065-16	10/19/2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12282 Newport Ave. Santa Ana, CA 92705	ADU (N)	23-069	501-031-92	10/18/2023	\$ -	\$ -	\$ -	\$ -	\$ 719.00	\$ -	\$ 719.00
10200 Overhill Dr. Santa Ana, CA 92705	SFR (R) ADU (N)	23-076	503-531-06	10/16/2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1422 Cloyden Road, Santa Ana, CA 92705	SFR (R)	23-078	503-041-10	10/26/2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
13762 Fairmont Way, Tustin, CA 92780	SFR (R) ADU (N)	23-080	395-141-33	10/2/2023	\$ 1,348.36	\$ 787.69	\$ -	\$ 2,136.05	\$ 80.20	\$ -	\$ 2,216.25
19201 Barrett Ln. Santa Ana, CA 92705	SFR	23-083	393-041-09	10/9/2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16584 Lorelei Ln. Tustin, CA 92780	MFR (E) ADU (N)	23-086	401-271-14	10/18/2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Totals</b>					<b>\$ 1,348.36</b>	<b>\$ 3,523.14</b>	<b>\$ -</b>	<b>\$ 4,871.50</b>	<b>\$ 799.20</b>	<b>\$ -</b>	<b>\$ 5,670.70</b>

**October 2023 - In the Pipeline**

Connection Address	Type of Development	Permit No	APN	Permit Status
16791 McFadden Ave. Tustin, CA 92780	Commercial	22-097	402-301-08	Pending customer payment and signature
12822 Fairhaven Ext. Santa Ana, CA 92705	SFR (N)	23-045	393-032-21	Pending revised plans
168 N. A St. Tustin, CA 92780	ADU (N)	23-055	401-522-20	Pending revised plans
1362 Tiki Cir. Tustin, CA 92780	ADU (N)	23-057	500-122-24	Pending customer response
4725 E. Chapman Ave. Orange, CA 92869	Commercial (N)	23-061	383-272-04	Pending customer payment and signature
13972 Sandhurst Pl. Santa Ana, CA 92705	SFR (R)	23-065	395-481-27	Pending customer payment and signature
12932 Rosalind Dr. Santa Ana, CA 92705	SFR	23-067	094-344-22	Pending customer revised plan
1277 N. Kennymead St. Orange, CA 92869	ADU (N)	WZ2023-070	379-172-03	Pending customer payment and signature
10675 Equestrian Dr. Santa Ana, CA 92705	SFR (R)	23-070	503-201-05	Pending customer payment and signature
1065 Bonita, Tustin, CA 92780	WZ Upsize	WZ2023-072	500-152-06	Pending customer payment and signature
12221 Circula Panorma, Santa Ana, CA	ADU (N) JADU (N)	23-077	094-212-06	Pending customer payment and signature
14062 Carfax Ave. Tustin, CA 92780	SFR ADU	WZ2023-099	432-065-16	Pending customer payment and signature
350 Pasadena Ave. Tustin, CA 92780	ADU	23-081	401-543-16	Pending customer revised plan
17742 Linda Ln. Santa Ana, CA 92705	SFR (R)	23-082	395-283-03	Pending customer payment and signature
2151 la Cuesta Dr. Santa Ana, CA 92705	Septic to Sewer	23-084	502-333-05	Pending customer revised plan
1131 Foothill Blvd. Santa Ana, CA 92705	Septic to Sewer	23-085	502-252-12	Pending customer revised plan
13371 Diamond Head Dr, Tustin, CA 92780	ADU (N)	23-088	103-523-08	Pending customer response
14162 Carfax Ave. Tustin, CA 92780	ADU (N)	23-089	432-065-07	Pending customer payment and signature
9662 Ravenscroft Rd. Santa Ana, CA 92705	SFR (R)	23-090	503-662-20	Pending customer response

R - Remodel  
 N - New  
 E - Existing

# MEMO

**TO: ENGINEERING AND OPERATIONS COMMITTEE**  
**FROM: GENERAL MANAGER**  
**SUBJECT: CIRCULA PANORAMA PIPELINE REPLACEMENT AND CUSTOMER PRV INSTALLATION PROJECTS**  
**DATE: NOVEMBER 16, 2023**

**Background**

At the August 18, 2022 meeting, the Board awarded the design for the Circula Panorama Pipeline Replacement to MKN Associates (MKN). MKN completed the design which resulted in two separate design packages, one for the pipeline and the other for installation of the customer pressure reducing valves (PRVs) downstream of the meters due to the higher pressure. A location map is attached.

The two projects were advertised to a select list of five contractors in September and bids were received in October. T.E. Roberts submitted a bid in the amount of \$3,929,258 and is the apparent low bidder for the pipeline construction project. Mike Bubalo Construction submitted a bid amount of \$184,000 and is the apparent low bidder for the customer PRV installation project. The engineer’s estimate was \$3,600,000 and the bid summaries for both projects are attached.

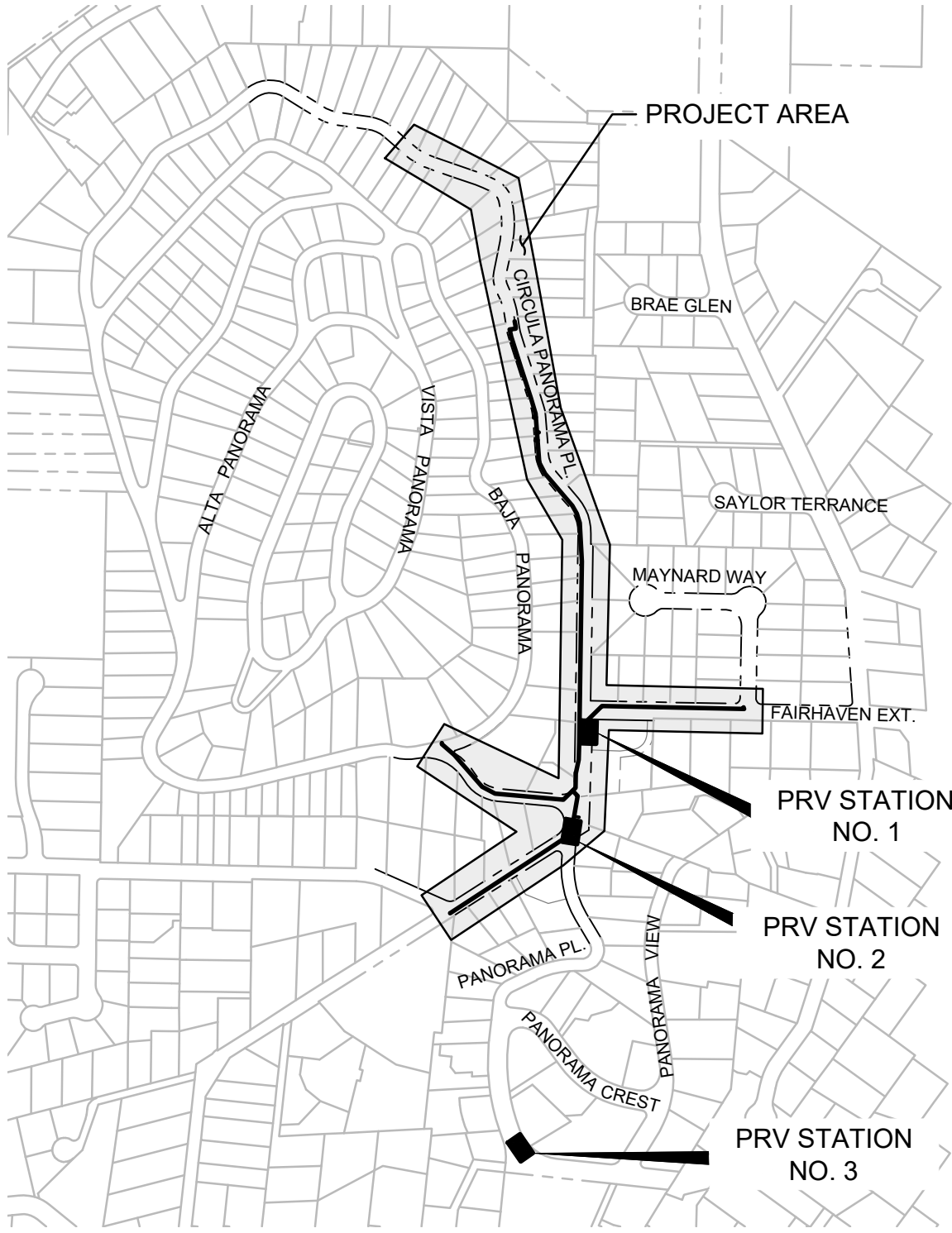
A table of the proposed project budget is provided below. Expenditure of \$3.5M was planned in the capital budget, \$3M in FY2023-24 and \$.5M the following year. Total project costs are estimated at \$5.15M. Staff discussed funding for the additional project costs with the District’s financial consultant. The following options were presented; 1) The District is planning an internal loan from the Sewer Fund to the Retail Fund in the amount of \$2M in Fiscal Year 2025 and the loan could be increased and initiated sooner, 2) The District initiated a \$20M low interest loan 3 years ago, \$2M remains, and the funds could be applied to the project if the funds are received, and 3) future planned Capital Projects could be deferred. If the District receives the additional funds they could be applied to the project.

<b>Circula Panorama Pipeline Conversion and Replacement Project</b>	
<b>Description</b>	<b>Est. Amount</b>
Design	\$ 280,000
Construction	\$4,120,000
CM&I	\$ 500,000
Contingency	\$ 250,000
<b>Total</b>	<b>\$5,150,000</b>

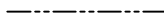

**Recommendation**

Information only.

**Attachment(s):** Location Map  
Bid Summary Pipeline  
Bid Summary Customer PRVs



**LEGEND:**

-  RIGHT-OF-WAY LINE
-  PROPOSED WATER PIPE

NO SCALE 

RWS: AUGUST 2023 2:52 PM 2023 2:52 PM 2023 2:52 PM 2023 2:52 PM 2023 2:52 PM 2023 2:52 PM 2023 2:52 PM 2023 2:52 PM 2023 2:52 PM 2023 2:52 PM  
 DATE: AUG 23, 2023 3:00 PM 2023 3:00 PM 2023 3:00 PM 2023 3:00 PM 2023 3:00 PM 2023 3:00 PM 2023 3:00 PM 2023 3:00 PM 2023 3:00 PM 2023 3:00 PM  
 USER: bhandari



16310 BAKE PARKWAY  
 IRVINE, CA 92618 (714) 213-9758

**CIRCULA PANORAMA PIPELINE CONVERSION (ZONE 3 TO 2) AND REPLACEMENT PROJECT**

**PROJECT LOCATION MAP**

FIGURE  
**1**



**BID OPENING**

**185 N MCPHERSON, ORANGE CA 92869**

**PROJECT: CIRCULA PANORAMA PIPELINE CONVERSION (ZONE 3 TO 2) AND REPLACEMENT PROJECT**

**BID DATE: OCTOBER 11, 2023 AT 4:00 P.M.**

**Contact: Jeff Smyth, Phone: 714.538.5815, email: jsmyth@eocwd.com**

	Contractor's Name and Address	Total Bid Amount Schedule		
		Total Base Bid Items 1 to 23	Total Alternate Bid Items 1 and 2	Total Base Bid and Alternate Bid Items
1	TE Roberts, Inc. 17771 Mitchell North Irvine, CA 92614	\$ 3,719,958.00	\$ 209,300.00	\$ 3,929,258.00
2	Mike Bubalo Construction Co., Inc. 5102 Gayhurst Avenue Baldwin Park, CA 91706	\$ 4,291,600.00	\$ 62,000.00	\$ 4,353,600.00
3	Paulus Engineering, Inc. 2871 E Coronado St. Anaheim, CA 92806	\$ 4,157,582.00	\$ 196,305.00	\$ 4,353,887.00



**BID OPENING**

**185 N MCPHERSON, ORANGE CA 92869**

**PROJECT: CIRCULA PANORAMA CUSTOMER PRV INSTALLATION**

**BID DATE: OCTOBER 13, 2023 AT 4:00 P.M.**

**Contact: Jeff Smyth, Phone: 714.538.5815, email: jsmyth@eocwd.com**

	<b>Contractor's Name and Address</b>	<b>Total Bid</b>
1	Mike Bubalo Construction Co., Inc. 5102 Gayhurst Avenue Baldwin Park, CA 91706	\$ 184,000.00
2	TE Roberts, Inc. 17771 Mitchell North Irvine, CA 92614	\$ 891,800.00

# MEMO

**TO: ENGINEERING AND OPERATIONS COMMITTEE**  
**FROM: GENERAL MANAGER**  
**SUBJECT: SHARON LANE LIFT STATION**  
**DATE: NOVEMBER 16, 2023**

---

## Background

The privately owned and operated Sharon Lane gravity sewer system (Sharon Lane Sewer), lift station, and forcemain, was installed in the early 2000's. The District owns and operates gravity sewer mains that convey wastewater to the Sharon Lane Sewer that ultimately flows back into the District's sewer system. A location map is attached. The reliance of the District on proper maintenance and operation of a privately owned lift station and forcemain to convey wastewater by a Homeowner Association for the District was identified as a potential liability. Lift station failure results in sanitary sewer overflow from an upstream District sewer manhole.

A comprehensive condition assessment of the lift station wetwell, drywell, pumps, piping and electrical and a short section of the forcemain was performed by staff with the assistance of Morrow Meadows, Sancon, and Jimni Systems, the current service contractor of the lift station. A detailed report of the assessment with photos is attached.

Morrow Meadows confirmed the electrical and controls equipment were in good condition. The wetwell is showing degradation and requires coating. The piping was in serviceable condition but requires recoating and replacement of some fittings/valves. The pumps were in operating condition and connected to hoses which makes repair and replacement simple. The limited observation of the forcemain confirmed it is in good condition and the material is 4" pvc. Staff requested annual operation and maintenance costs from the HOA and the information is still pending.

Rehabilitation costs of the lift station are estimated at \$60k. The forcemain is approximately 350 long and was installed circa 2000. A life expectancy of 100 years is generally accepted for PVC pressure pipe, therefore, the pipe should last another 80 years. Future replacement would be estimated at approximately \$250k.

## Recommendation

Information Only

Attachment(s): Location Map  
Assessment Report



- LS** Lift Stations (1)
- Standard Manhole (6)
- Gravity Main (7)
- Force Main (1) Approx 350 ft  
LS and FM installed circa 2000

**Strictly for use by EOCWD staff.**

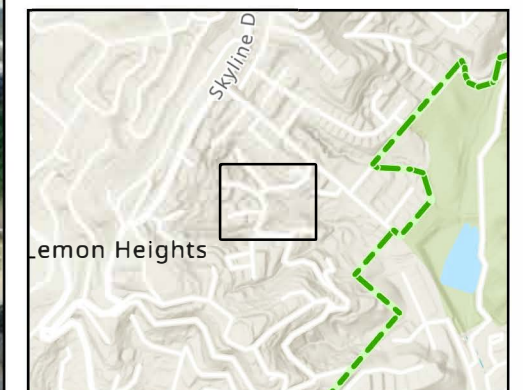
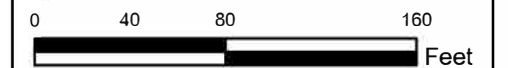
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9/8/2023



1 inch equals 80 feet



**Location Map**

# SHARON LANE PRIVATE LIFT STATION

An inspection of the Sharon Lane lift station was performed on October 16, 2023, by EOCWD staff as well as Morrow Meadows and Sancon Engineering representatives. The inspection included looking at the control panel, pumps, dry well, wet well and a small portion of the 4" inch force main.

EOCWD staff recommends the following corrections.

## DRY WELL:

1. Replacement of one 4" gate valve.
2. Replacement of one 3" bypass valve.
3. Paint piping with an epoxy paint to prevent corrosion.
4. Replace flange bolts with stainless steel bolts.
5. Paint drywell with an epoxy paint.

Check valves appear to be recently replaced and in good working condition.

Dry well corrections to be performed by EOCWD staff.

Estimated cost - \$2,500

## WETWELL:

Sancon Engineering performed an evaluation of the wet well and provided a proposal (attached). Recommendations include:

1. Remove old float systems that are no longer in use.
2. Determine if gate valve is still necessary or active (by EOCWD). If gate valve is no longer needed, Sancon will cut flush to the wall and remove valve.
3. Resurface and epoxy coat wet well walls only.
4. Replace discharge elbows and paint discharge pipe that leads to drywell (work to be done by EOCWD staff).
5. EOCWD will also need to relocate the transducer wire that transmits water level to smart control (AQUAV scout telemetry system)

Sancon Estimate: \$43,014.00

#### PANEL:

The pump controls, water level, alarm system and, stainless steel housing were installed less than 1 year ago and appear to be in good working condition. Staff was able to run the pumps manually and in auto.

Morrow Meadows did recommend purchasing an extra variable frequency drive in case one of the existing units failed. Approximate cost for a spare drive is \$2,500.

#### FORCE MAIN:

The force main was installed 2001. Staff videoed approximately 15 feet using a push camera and confirmed the pipe is 4" pvc.

Conclusion: The lift station overall is in good working condition. The wet well needs to be coated to prevent degradation and requires the largest investment.





# SANCON TECHNOLOGIES, INC. \_ \_ \_

GENERAL ENGINEERING CONTRACTOR Tel: (714) 891-2323  
STATE CONTRACTORS LICENSE #774055 Fax: (714) 891-2524  
DIR REGISTRATION # 1000008879  
5841 Engineer Drive  
Huntington Beach, CA 92649

## **BID # BT24012**

**Date:** October 17, 2023

**To:** East Orange County Water District

**Attention:** Justin Davis **Phone:** 714-538-5815 **Email:** jdavis@eocwd.com

**Project: Sharon Lane Lift Station Rehabilitation Project**

**Scope of work:** Rehabilitation of (1) existing 8' diameter concrete lift station, 20' deep with Sancon 100

polyurethane per the following:

### **This bid includes the following:**

- Confined Space Entry Procedures & Equipment
- Prevailing wage / certified payroll if required, In-Place insurance coverage
- Scaffolding for our work; Step Removal
- Surface preparation, Mortar Repair as required
- Application of 125 mils of Sancon 100 Polyurethane
- High voltage spark test while on-site, at the completion of our work

### **Assumptions:**

- Sancon will not be signatory to any PLA
- GC to coordinate inspection so as not to delay our work
- Water meter or on-site water is provided
- Regular working hours M – F 7AM to 5PM
- Initial Pumping/Dewatering to be done by EOCWD
- Floor coating is not recommended, nor is it included in this proposal
- Proposal is subject to mutually acceptable contract language and must be incorporated in any subsequent contract/purchase order

### **This bid excludes the following:**

- Bypassing, flow control or working in surcharged structures
- Replacement of frame & cover; Removal and replacement of piping and/or mechanical equipment
- 3<sup>rd</sup> party testing or testing other than spark testing
- Stoppage of water infiltration, heavy concrete repair exceeding .5in
- Preparing As-builts, Traffic control, Access notification or arrangements
- Removal of water or debris from structure prior to commencing work
- BMP's, NPDES Permits, SWWP's, Survey & Staking, Revegetation or biological monitoring

**Lift Station Rehabilitation \$43,014.00 Lump Sum**

STAND BY RATE / ADDITIONAL WORK NOT LISTED ABOVE @ \$ 255.00 / MAN Hr. PRICE IS BASED ON ONE MOBILIZATION.  
ADDITIONAL

MOBILIZATIONS BILLED AT: \$3,950.00 EACH. SANCON SHALL NOT BE RESPONSIBLE FOR LIQUIDATED DAMAGES OR  
PENALTY DUE TO DELAY BY

OTHERS. BOND, IF REQUIRED, WOULD ADD 1% TO TOTAL BID PRICE. PRICE IS BASED ON RETENTION BEING WITHHELD A  
MAXIMUM OF 90 DAYS

AFTER COMPLETION OF OUR WORK. PRICE IS FIRM FOR A PERIOD OF THIRTY DAYS FROM RECEIPT. PAYMENT TERMS NET 30  
DAYS OR PER  
CONTRACT.

Respectfully Submitted, Accepted By: \_\_\_\_\_

Date: \_\_\_\_\_

Mark Weber

Sancon Technologies, Inc. PO: \_\_\_\_\_

## Field electrical inspection and assessment of the EOCWD Sharon Lane Lift station:

### Initial observations:

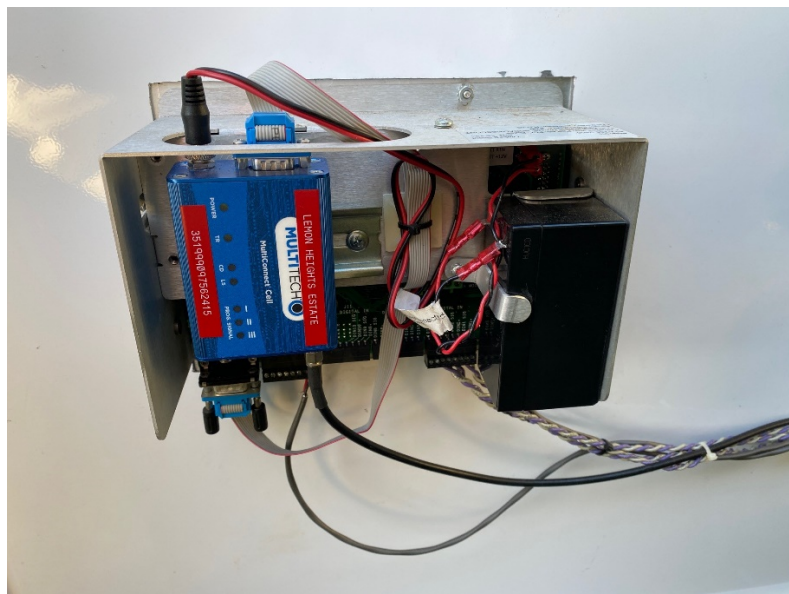
1. The lift station control panel appeared to be in good working condition. There were no obvious missing or defective components, and wiring seemed to be in its original condition. Drawings were present and legible that reflected the components installed.



- The controller operating the pump station is a Mercoid MPCJR. It appeared to be in good working condition. The local pilot devices appeared to be in good working order.



- The SCADA monitoring controller is a Aquavx Scout with an OMNI antenna on an 8 Ft mast. It appeared to be in good working condition. I was informed by the representative from Jimini Systems Inc. that reception in the area is very poor.



- The variable frequency drives operating the submersible pumps are ABB ACS-550. They are a reputable VFD and appeared to be in good condition.

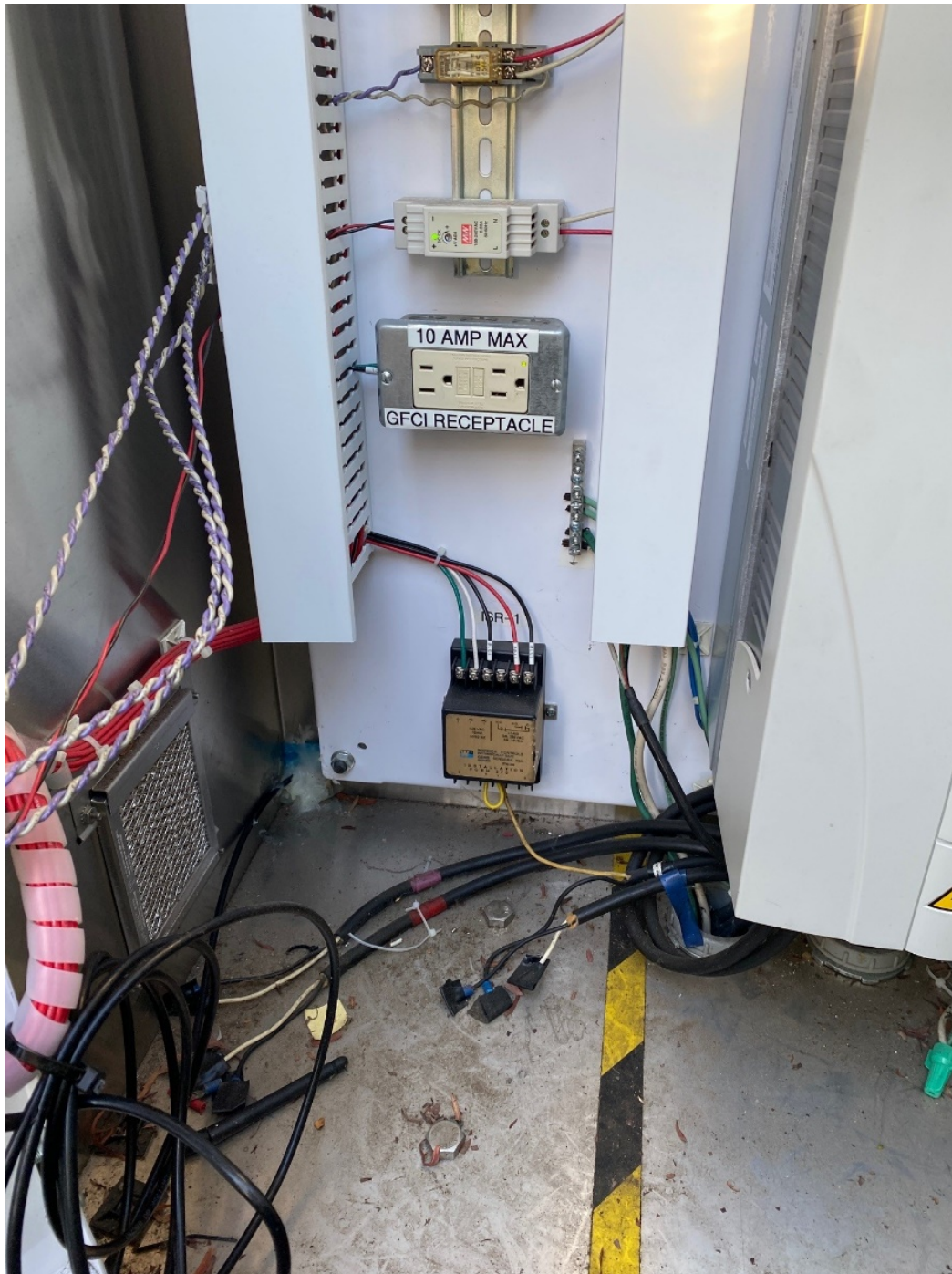


- Wiring in the wet well appeared to be in good condition and free from abrasions and damage.

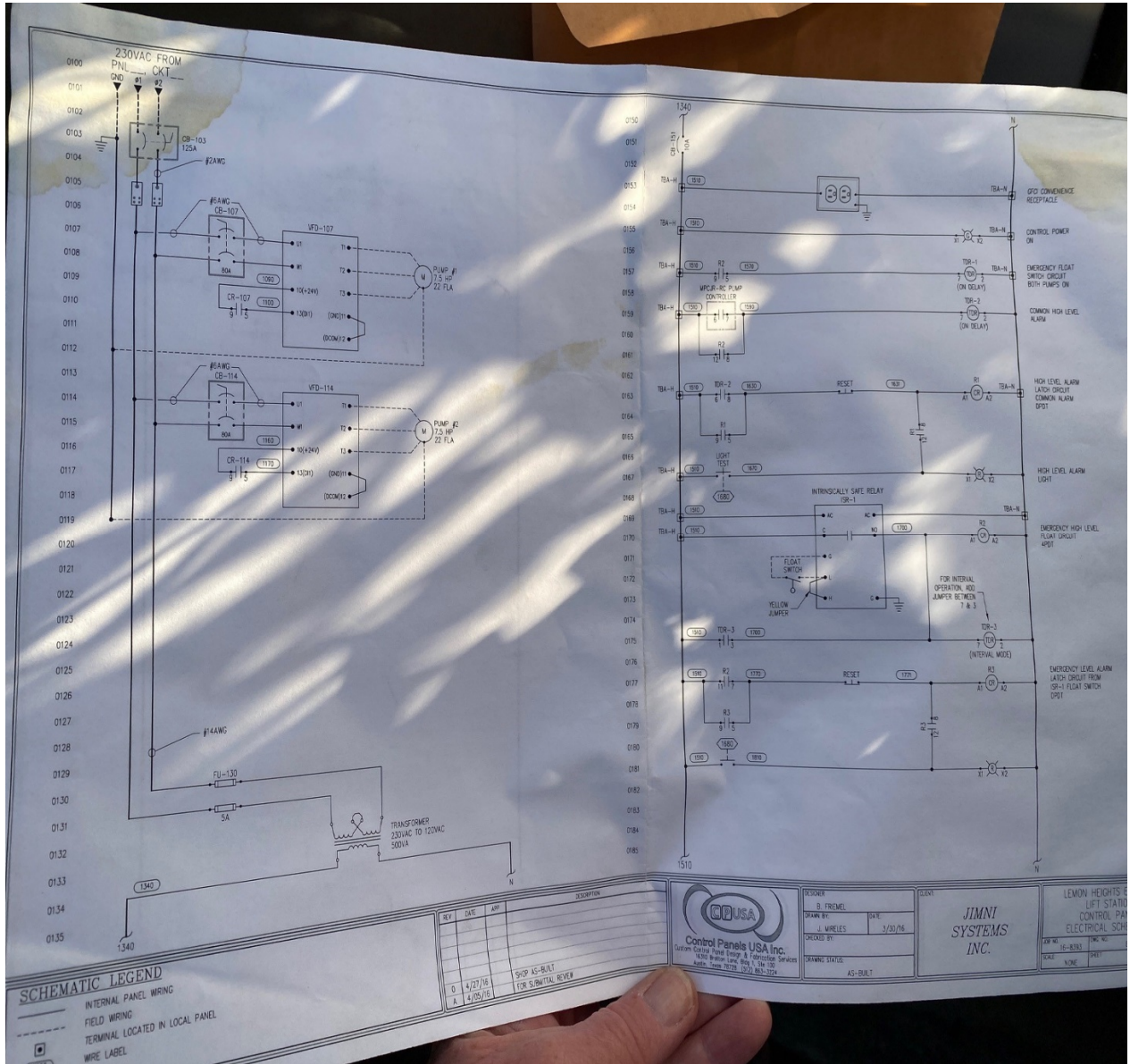


**Items of Concern:**

1. The floats in the wet well appeared to be installed at reasonable elevations, however, the leads from the floats appear to be disconnected from the intrinsically safe relay at the control panel. The representative from Jimini Systems told me that those leads were from old floats, and that new ones were wired directly to the controller. Functionally this is OK, but to meet Class 1, Division 1 requirements, an intrinsically safe relay should be utilized.



- The drawings indicate the submersible pumps are 20 H.P. 3-phase units with an FLA of 22 amps. This is very unlikely. The wires feeding the panel appear to be only rated for 20 amps. The actual submersible pumps that are installed need to be verified to make sure the overcurrent protection devices upstream of the panel are sized properly.



**Recommendations:**

Although the control system at this lift station appears to be in working order, a complete and thorough test of all systems should be performed. This would include the following:

1. Verification and documentation of the actual installed submersible pumps.
2. Verification of all VFD settings match the submersible pump specifications.
3. Re-installation of the intrinsically safe relay(s) or replacement if not operational.
4. Verification of the float elevations, and their functionality.
5. Perform test on all manual and automatic operations.
6. Perform voltage and current test on each pump.
7. Verification of all SCADA and alarming notifications.
8. Make a list of corrective actions for any equipment that does not pass functionality.

This panel is fed by a single-phase source, but the submersible pumps are 3-phase. If one of the VFDs were to fail, there would not be a simple way to make the failed pump operational. I recommend the district should procure a spare replacement VFD.

# MEMO

**TO: ENGINEERING AND OPERATIONS COMMITTEE**  
**FROM: GENERAL MANAGER**  
**SUBJECT: DISTRICT HEADQUARTERS BUILDING – EMERGENCY BACKUP GENERATOR**  
**DATE: NOVEMBER 16, 2023**

---

## Background

At the January 19, 2023 meeting, the Board awarded the design-build project for the new District Headquarters Building to Snyder Langston and the construction is in progress. The building pad and foundation are complete and framing is in progress.

The Emergency Backup Generator is a District supplied item. Staff submitted a request for quote to three select generator vendors, Quinn (Caterpillar), Bay City Electric (Kohler), and Cummins. Bay City Electric submitting the lowest quote. Staff recommends the Committee authorize the General Manager to execute a purchase agreement with Bay City Electric up to the amount of \$110,000 for the emergency backup generator. Costs for the generator were included in the District Costs in the approved project budget provided for reference below.

Furniture, another District supplied item, is expected to be presented for approval in December.

<b>District Headquarters Building Approved Budget</b>	
<b>Description</b>	<b>Est. Cost</b>
Design-Builder	
Building Design and Construction	\$5,200,000
Site	\$2,000,000
District Costs (CM&I, IT, AV, SCADA, FF&E, Generator, Demo)	\$1,000,000
Contingency	\$ 500,000
<b>Total</b>	<b>\$8,700,000</b>

## Recommendation

That the Committee authorize the General Manager to execute a purchase agreement with Bay City Electric up to the amount of \$110,000 for the Emergency Backup Generator.

Attachment(s): Picture



# MEMO

**TO: ENGINEERING AND OPERATIONS COMMITTEE**  
**FROM: GENERAL MANAGER**  
**SUBJECT: BRAE GLEN PIPELINE REPLACEMENT – CONSTRUCTION AWARD**  
**DATE: NOVEMBER 16, 2023**

---

## Background

The District has an existing 450-foot 12" steel pipeline installed in 1951 that connects the Barrett Pump Station to Crawford Canyon and an existing parallel 6" AC pipeline installed in 1968 in Brae Glen. A CCTV video showed internal deterioration of the 70 year old 12" steel pipeline indicating it is nearing the end of its usable life. The 12" pipeline was installed on private property under a non-specific blanket easement making access difficult. Staff considered several rehabilitation/replacement alternatives including lining the existing pipeline with Primus Line or CIPP, bursting, and open trench replacement. The preferred alternative at the time was to replace a segment of the 12" steel pipe, abandon the remaining portion of the 12" steel pipeline, and replace and upsize the 6" pipeline in Brae Glen to 8".

Staff retained MKN Associates to design the pipeline and the project was advertised for construction bidding in May 2023 to a select list of three contractors. All three contractors attended the pre-bid meeting and submitted bids. Doty Brothers Construction (Doty) submitted the lowest bid with a total bid amount of \$675,372. The engineer's estimate was \$487,000 and the Bid Summary is attached.

The bids were higher than expected due limited access and the extensive surface restoration to replace the 12" steel pipeline segment. Staff considered other aging pipelines in the vicinity that are also on private property, and difficult to access, to expand the scope and determine if a more cost-effective solution could be developed.

With assistance by MKN and Akel Engineering, the District's hydraulic modeling consultant, staff determined that by replacing and upsizing the aging AC pipe in Brae Glen and crossing Crawford Canyon with a larger 12" pipe that even more aging steel pipe (50 to 70 yrs old), approximately 1,500 feet, on private property and difficult to access, can be abandoned. A location map is attached.

Staff recommends awarding Doty Bros Construction a contract in the amount of \$530,000. This would include bid line items 1-2, 4-7, and 9-14 with a cost escalator, additional costs for the larger 12" pipe, and additional footage to cross Crawford Canyon. Staff requests approval of an amendment to MKN's agreement in the amount of \$25,000 for engineering services during construction, and the inclusion of \$70,000 in the budget as contingency and for District supplied items.

The small segment of 12" steel pipeline has been removed from the project until a cost-effective solution can be developed. Staff will present a project for its replacement for consideration at a future meeting.

# BRAE GLEN PIPELINE REPLACEMENT – CONSTRUCTION AWARD

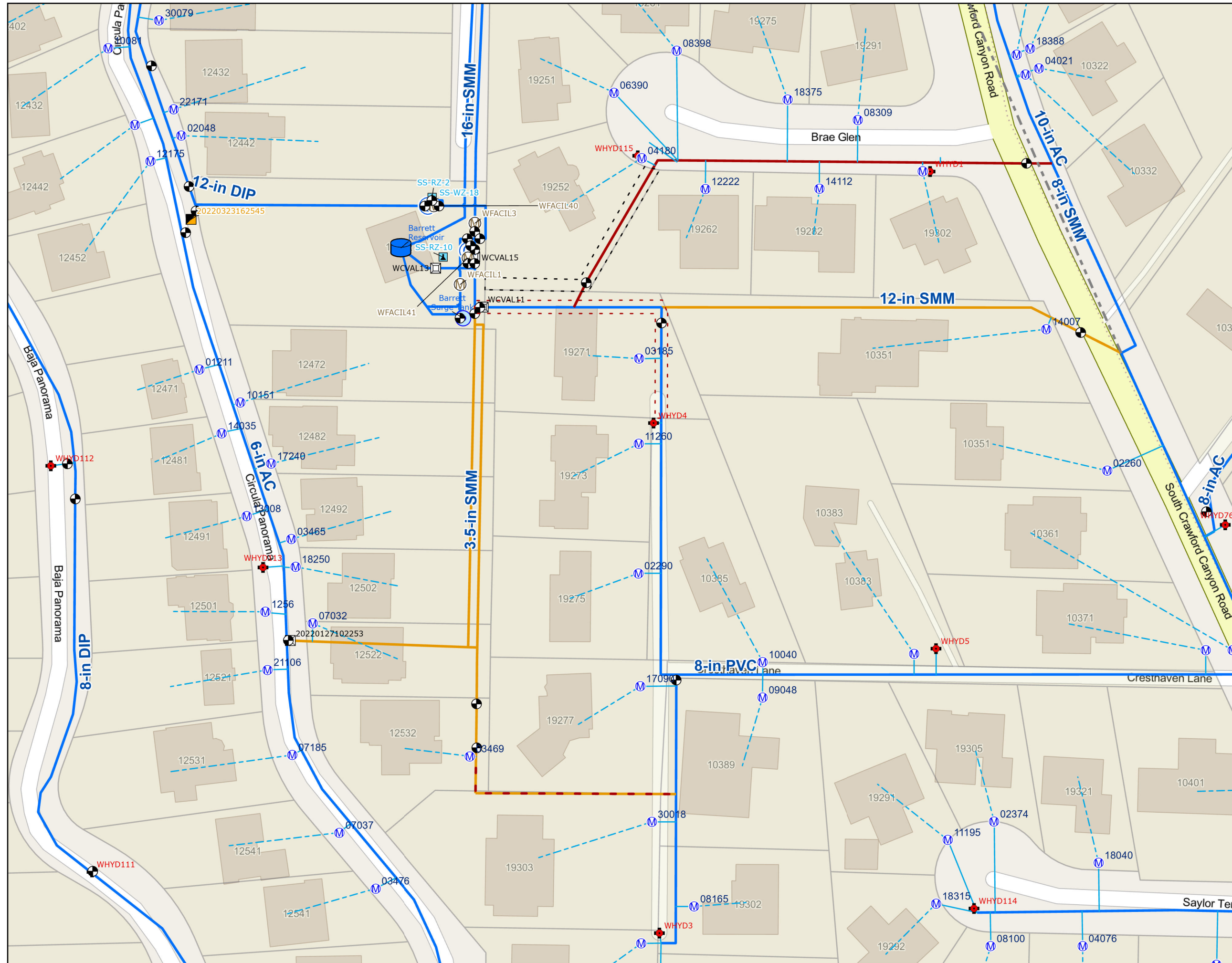
<b>Brae Glen Pipeline Replacement Construction Cost Summary</b>	
<b>Description</b>	<b>Est. Amount</b>
Construction	\$530,000
CM&I	\$ 50,000
Contingency	\$100,000
<b>Total</b>	<b>\$680,000</b>

## Recommendation

That the Committee recommend the Board:

1. Approve a construction contract to Doty Brothers Construction in the amount of \$530,000;
2. Approve an amendment to MKN's agreement in the amount of \$25,000 for engineering services during construction; and
3. Authorize and approve the General Manager a budget of \$100,000 for contingency and District supplied items for construction of the Brae Glen Pipeline Replacement Project.

Attachment(s)    Location Map  
                             Brae Glen Pipeline Replacement Project Bid Summary



- Easement (1)
- Proposed Easement (1)
- Valves (29)
- Sample Sites (3)
- Production Meter (4)
- Pressure Reducing Station (1)
- Reservoir (1)
- System Connection (2)
- Tank (1)
- Domestic (53)
- Hydrants (11)
- Global Valve and Controls (5)
- Unknown Control Valve (1)
- Customer Side Service (55)
- District Side Service (64)
- District Side Proposed Service (1)
- Water Main (47)
- Abandoned Water Main (3)
- Proposed Abandoned Water Main (10)
- Proposed Upsize Water Main (3)

**Strictly for use by EOCWD staff.**

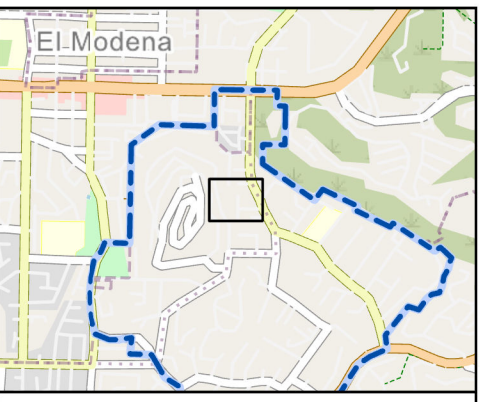
Legend items are followed by asset count for this page (XX).  
 Mains are labeled with their diameter and material.  
 Meters are labeled with their Serv ID.  
 All other assets are labeled with their Facility ID.

N

11/6/2023

1 inch equals 75 feet

0 37.5 75 150 Feet



**Locator Map**



**BID OPENING**

**185 N MCPHERSON, ORANGE CA 92869**

**PROJECT: BRAE GLEN PIPELINE REPLACEMENT**

**BID DATE: MAY 19, 2023 AT 2:00 P.M.**

**Contact: Jeff Smyth, Phone: 714.538.5815, email: jsmyth@eocwd.com**

	Contractor's Name and Address	Total Bid Amount Schedule		
		Total Base Bid Items 1 to 14	Total Alternate Bid Items A-3 - A-5, A-8	Total Base Bid and Alternate Bid Items
1	Doty Brothers Construction Company 11232 E. Firestone Blvd. Norwalk, CA 90650	\$ 675,372.00	N/A	N/A
2	W.A. Rasic Construction Company, Inc. 4150 Long Beach Blvd. Long Beach, CA 90807	\$ 894,000.00	N/A	N/A
3	TE Roberts, Inc. 17771 Mitchell North Irvine, CA 92614	\$ 1,400,713.00	\$ 505,419.00	\$ 1,906,132.00

# MEMO

**TO: ENGINEERING AND OPERATIONS COMMITTEE**  
**FROM: GENERAL MANAGER**  
**SUBJECT: VISTA PANORAMA SITE – CONSTRUCTION AWARDS**  
**DATE: NOVEMBER 16, 2023**

**Background**

At the August 10, 2023 meeting, the Engineering and Operations Committee awarded the construction of the Vista Panorama Site Wall to StructureCast. To facilitate the installation of the wall, grading of the site needs to be completed. Staff requested proposals from three contractors for grading, hydrotank pad installation, paving and other items. All three contractors submitted estimates ranging from \$133,400 to \$237,000 for selected items. Champion Paving submitted the lowest estimate and staff recommends awarding them a contract in the amount of \$133,400 for the grading and additional items.

Staff also requested an estimate for installation of the new District supplied hydrotanks and pipes. At over \$300k, it was higher than expected. Staff has been successful on past projects utilizing Doty Construction on a time and material basis to complete projects efficiently. Staff recommends approval of a contract with Doty Construction in the not to exceed amount of \$150,000 for the work.

<b>Vista Panorama Project Construction Cost Summary</b>	
<b>Description</b>	<b>Est. Amount</b>
Construction	
Wall	\$190,000
Grading/Tank Pad/Hydrotank Demo	\$160,000
Pipelines	\$150,000
CM&I	\$ 50,000
Contingency	\$ 50,000
<b>Total</b>	<b>\$600,000</b>

The costs above do not include a planned project to replace the pump station. Staff will present a project in the future for consideration for the pump station replacement.

**Recommendation**

That the Committee award contracts to Champion Paving, in the amount of \$133,400, for the Vista Panorama site grading and additional work and Doty Construction in the not to exceed amount of \$150,000 for installation of the hydrotank, pipelines, and associated work.

**Attachment(s):** None

# MEMO

**TO: ENGINEERING AND OPERATIONS COMMITTEE**  
**FROM: GENERAL MANAGER**  
**SUBJECT: ROCKHURST SEWER LINER REMOVAL – CHANGE ORDER**  
**DATE: NOVEMBER 16, 2023**

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## Background

In September of last year, staff discovered a collapsed liner in a 6” sewer main located in an easement between Rockhurst Avenue and Greenbrier Road. Staff spent considerable time working with the property owner to obtain access to a manhole within the easement and initially contracted with Robotic Sewer Solutions (RSS) to grind and cut out the liner. However, after further discussions on the time needed to perform the grinding work, staff determined the best solution was to contract with Ayala Engineering whose plan was to re-heat and pull the liner out. A contract with Ayala was issued on November 25, 2022. Of the 275 feet of liner originally installed, Ayala was able to remove almost 200 feet. This left 75 feet of liner along with almost 80 feet of tree roots to remove using RSS.

On December 5, 2022, a standard contract with a not to exceed sum of \$70,000 was issued to RSS for liner removal and top hat installation. RSS informed staff that they would have to coordinate the work based on their availability. RSS was on site 26 days total. Work began on December 6, 2022 and was completed on May 11, 2023. Several requests for updates on remaining budget were made throughout the duration of the work, however, no progress payments were submitted and no updates were provided.

On May 18, 2023, staff received an invoice in the amount of \$121,313, which exceeded the contract amount of \$70,000 by \$51,313.

On June 12, 2023, RSS was paid \$70,000 per contract and asked to submit a change order request for approval. A change order was sent to RSS on July 13, 2023, along with a request for certified payroll records. RSS signed the change order on October 11, 2023 and certified payroll records were provided October 20, 2023.

While the contract was clearly overlooked and communication regarding remaining budget was not communicated, RSS performed high quality work and completed the project.

Staff Recommends approval of a change order in the amount of \$51,313 to Robotic Sewer Solutions.

## Recommendation

That the Committee approve a change order in the amount of \$51,313 to Robotic Sewer Solutions.

Attachment(s): None

# MEMO

**TO: ENGINEERING AND OPERATIONS COMMITTEE**  
**FROM: GENERAL MANAGER**  
**SUBJECT: ON-CALL CONSTRUCTION AWARDS**  
**DATE: NOVEMBER 16, 2023**

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## Background

As a part of the regular maintenance and repair programs, District staff budgets for pipeline, manhole, valve, service lateral, and hydrant repairs and replacements. District staff performs much of the work, however, at times additional assistance is needed from outside contractors due to staff and equipment limitations and for emergencies.

Staff has developed ongoing relationships with three construction contractors, T.E. Roberts, Doty Brothers Construction, and W.A. Rasic due to their responsiveness, quality, and fair business practices. Staff requested and reviewed their current equipment and labor rates and finds them to be fair and reasonable. Staff recommends awarding three 1-year on-call contracts to T.E. Roberts, Doty Brothers Construction, and W.A. Rasic each in the amount of \$100,000 per year for as-needed construction. The work will be funded by the corresponding approved operating or capital budget item.

## Recommendation

That the Committee recommend the Board award 1-year on-call contracts with T.E. Roberts, Doty Brothers Construction, and W.A. Rasic in the amounts of \$100,000 per year for as-needed construction.

Attachment(s): None