



AGENDA

EAST ORANGE COUNTY WATER DISTRICT

ENGINEERING AND OPERATIONS COMMITTEE MEETING

Thursday, March 20, 2025 at 9:00 A.M.
185 N. McPherson Road, Orange, CA

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. Capital Projects Status Update

Action Items

None

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 up to 30 minutes before the Committee meeting, and such comments shall be provided to the Committee. 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.

MEMO

TO: ENGINEERING AND OPERATIONS COMMITTEE
FROM: GENERAL MANAGER
SUBJECT: RETAIL ZONE SYSTEM STATUS, WELL LEVELS, AND WATER USE
DATE: MARCH 20, 2025

Background

This memo serves as cover for the water use and well reports.

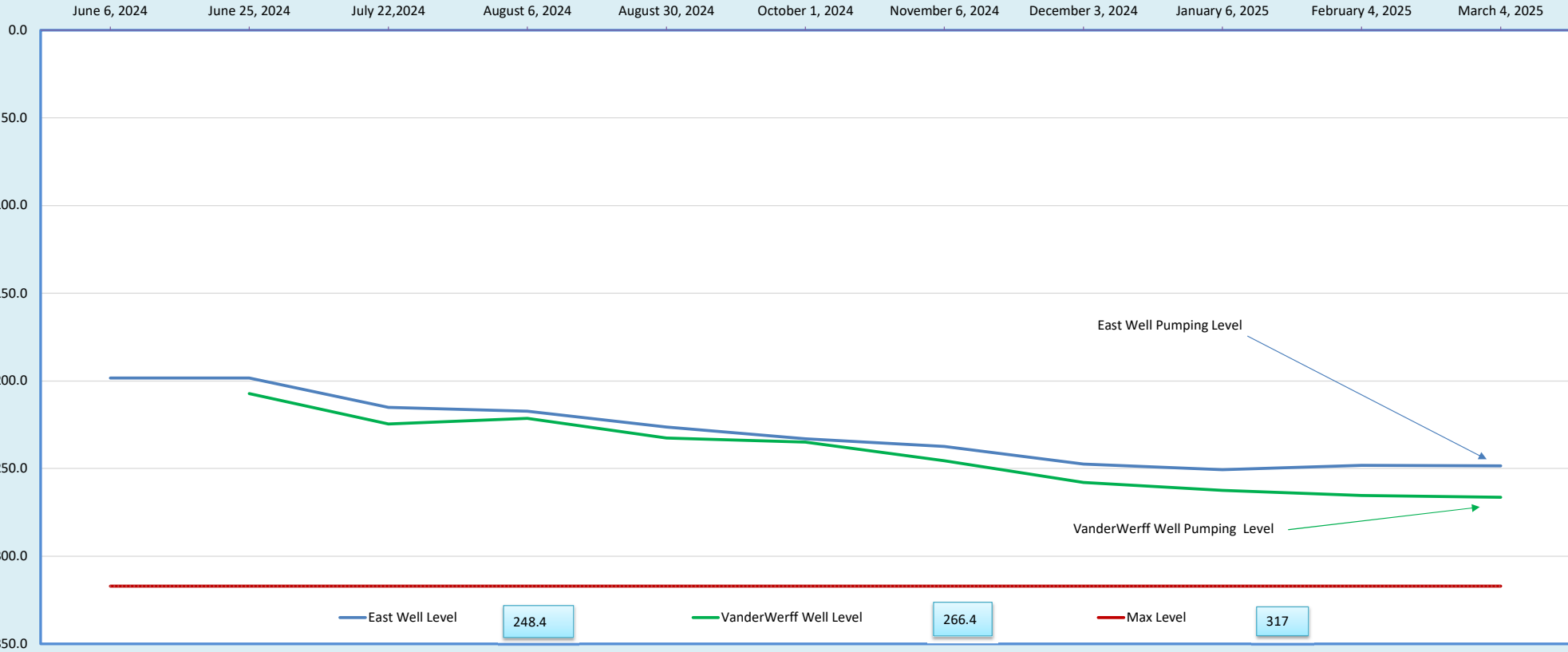
Recommendation

Informational

Attachment(s)

VanderWerff and East Well Pumping Levels, RZ Water Usage Reports (MWDOC)

VanderWerff Well and East Well Pumping Water Levels

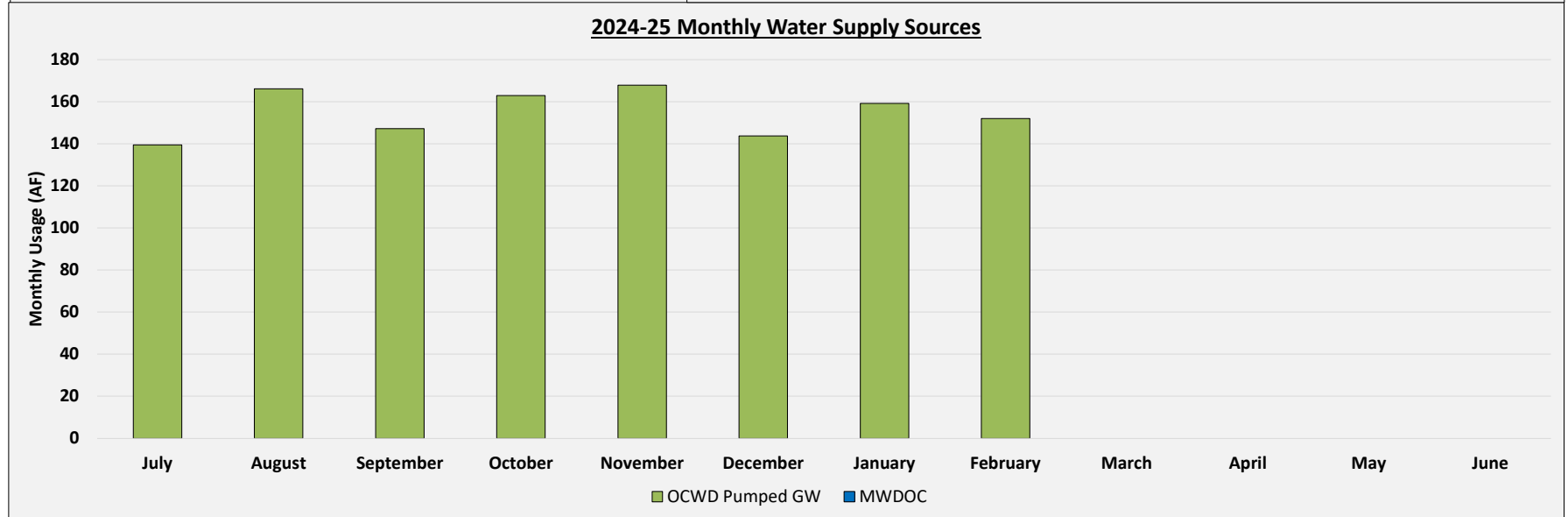
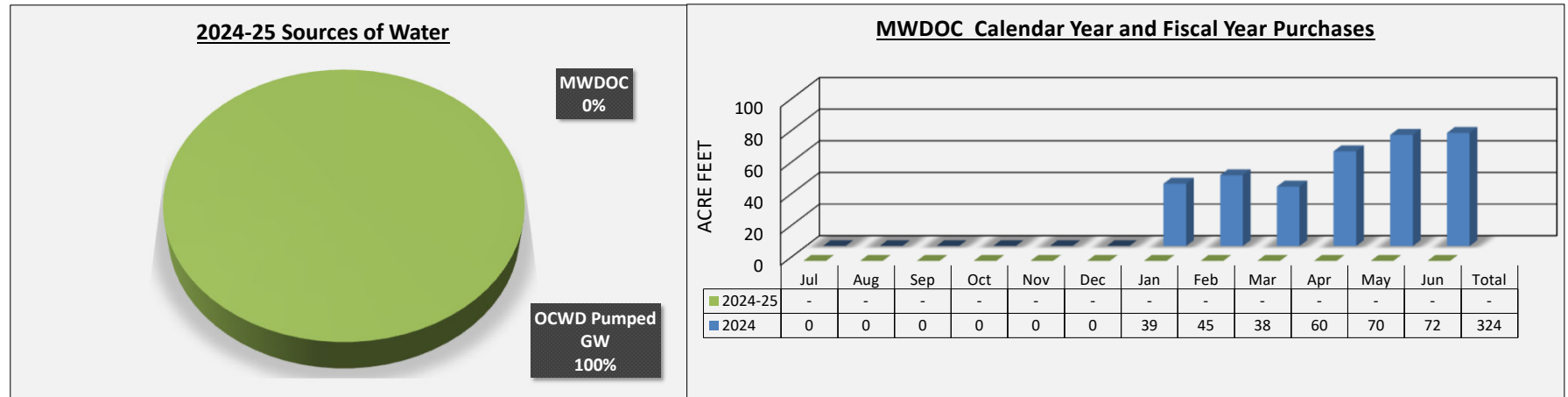


East Orange County Retail Zone Water Usage Report

East Orange County Retail Zone Overview of Usage FY 2024-25 Monthly Water Use

Type of Supply	July	August	September	October	November	December	January	February	March	April	May	June	Total
MWDOC	-	-	-	-	-	-	-	-	-	-	-	-	-
OCWD Pumped GW	139.5	166.1	147.2	162.9	167.9	143.8	159.2	152.0	-	-	-	-	1,239
Total	140	166	147	163	168	144	159	152	-	-	-	-	1,239

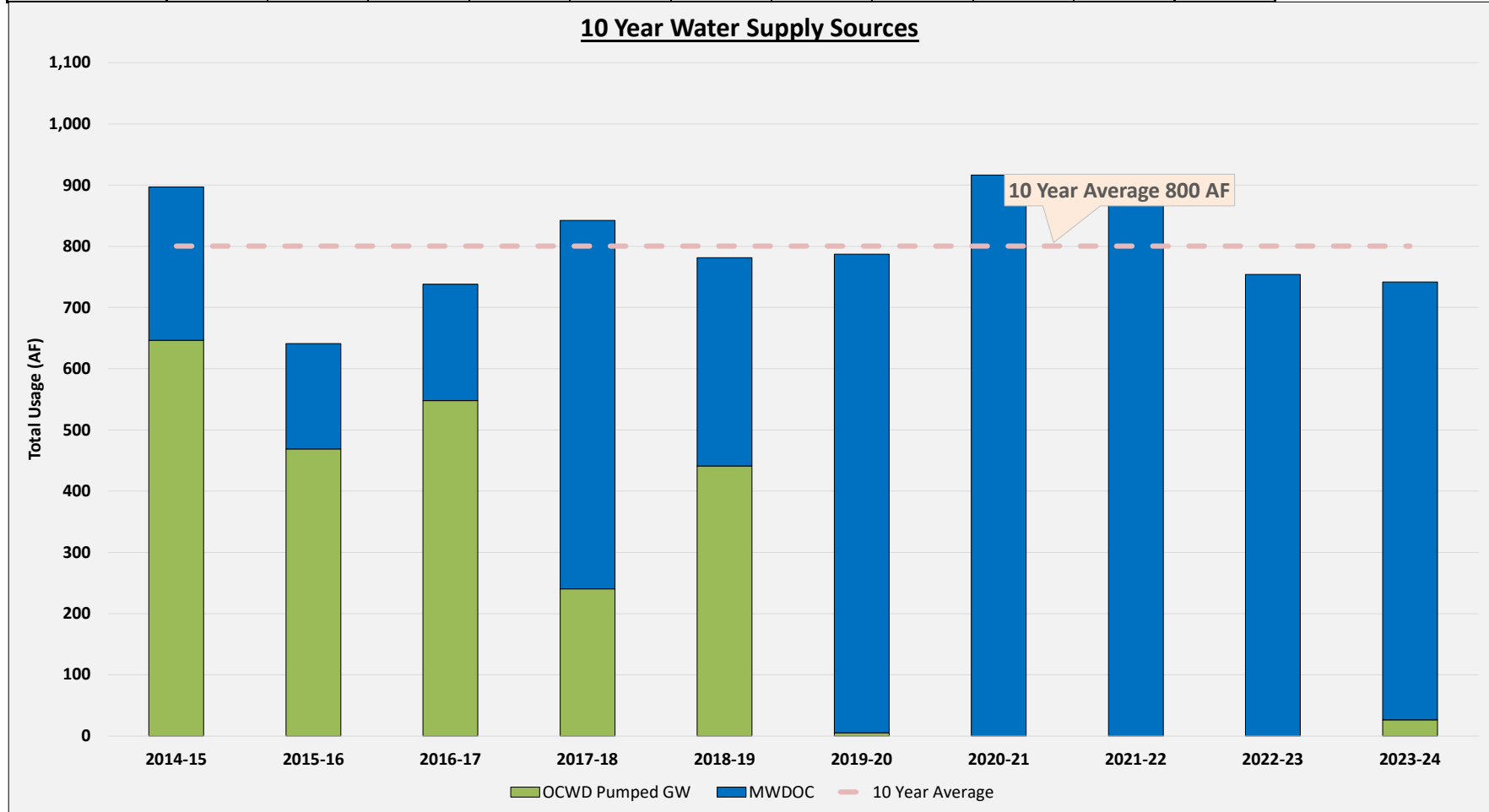
2024 MWDOC Usage	July	August	September	October	November	December	January	February	March	April	May	June	Total
	0	0	0	0	0	0	39	45	38	60	70	72	324



East Orange County Retail Zone Water Usage Report

Annual Water Usage

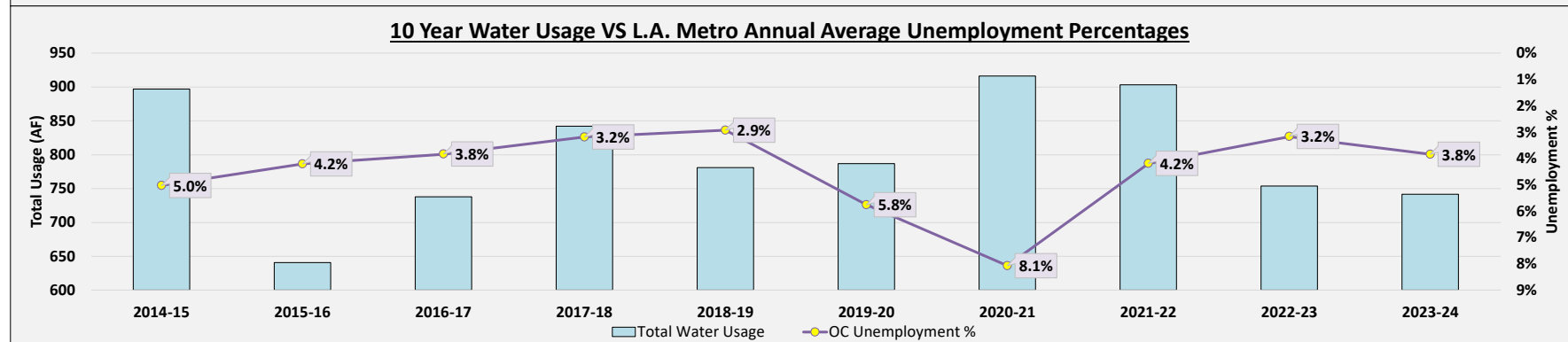
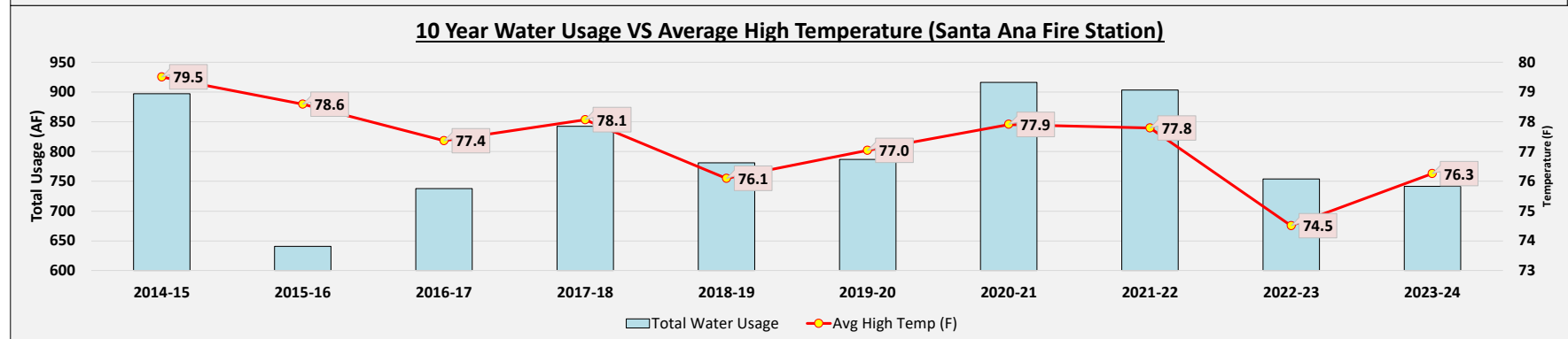
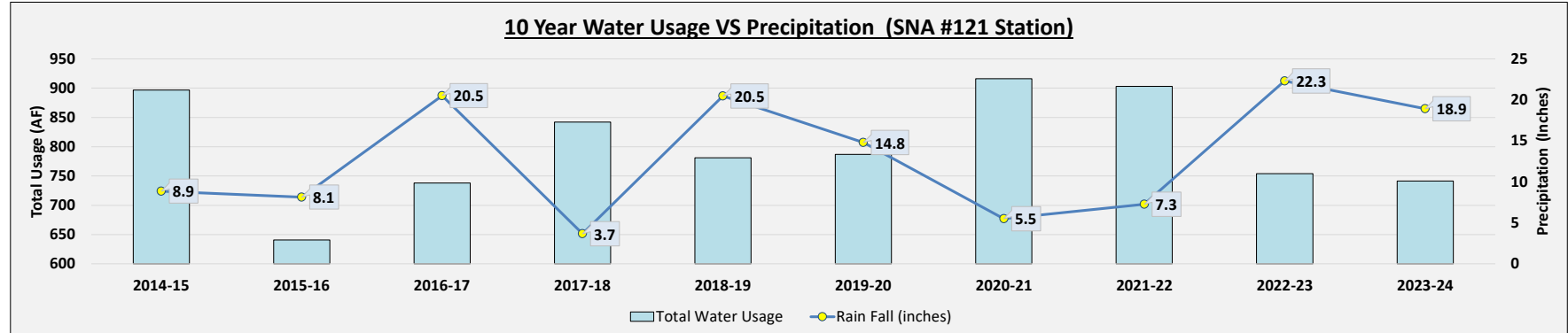
Type of Supply	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	Average
MWDOC	250.7	172.1	190.2	602.1	340.0	781.8	916.4	903.3	753.9	715.3	562.6
OCWD Pumped GW	646.3	468.8	547.8	240.2	441.3	5.2	0.0	0.0	0.0	26.3	237.6
Total	897	641	738	842	781	787	916	903	754	742	800



East Orange County Retail Zone Water Usage Report

Water Usage Variables

Type of Supply	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	Average
Rain Fall (inches)	8.9	8.1	20.5	3.7	20.5	14.8	5.5	7.3	22.3	18.9	13.0
Avg High Temp (F)	79.5	78.6	77.4	78.1	76.1	77.0	77.9	77.8	74.5	76.3	77.3
OC Unemployment %	5.0%	4.2%	3.8%	3.2%	2.9%	5.8%	8.1%	4.2%	3.2%	3.8%	4.4%
Total Water Usage	897	641	738	842	781	787	916	903	754	742	800



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
2018-19 Usage	87	98	77	81	60	70	53	49	45	67	71	84	842
2019-20 Usage	107	99	85	73	62	40	47	29	43	61	59	77	781
2020-21 Usage	82	87	86	83	68	46	47	56	38	52	67	76	787
2021-22 Usage	90	99	93	90	74	68	62	54	43	64	84	95	916
2022-23 Usage	100	102	89	76	73	48	55	62	69	72	78	79	903
2023-24 Usage	84	87	81	68	57	53	39	45	38	60	70	82	754
Average of Last 6 FYs	92	96	85	79	66	54	51	49	46	63	72	80	831
Monthly Usage Percentage	11%	12%	10%	9%	8%	7%	6%	6%	6%	8%	9%	10%	100%

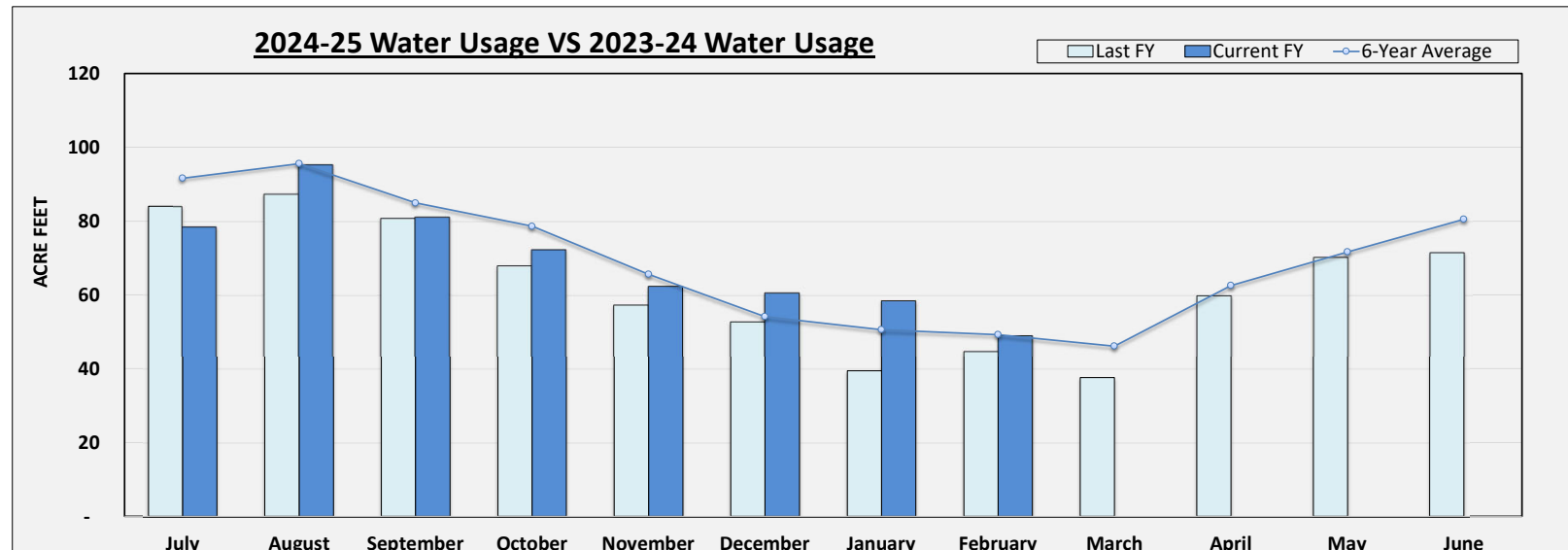
Water Usage By Source

Imported	July	August	September	October	November	December	January	February	March	April	May	June	Total
MWD via EO Wholesale	-	-	-	-	-	-	-	-	-	-	-	-	-
Water from IRWD during OC-70 shutdown	-	-	-	-	-	-	-	-	-	-	-	-	-
CPTP	-	-	-	-	-	-	-	-	-	-	-	-	-
MWD In-Lieu*	-	-	-	-	-	-	-	-	-	-	-	-	-
Imported Total	-	-	-	-	-	-	-	-	-	-	-	-	-

*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	139.5	166.1	147.2	162.9	167.9	143.8	159.2	152.0					1,238.6
Less Fill up Reservoir	-	-	-	-	-	-	-	-					-
Less CPTP	-	-	-	-	-	-	-	-					-
OCWD to Tustin	(57.80)	(70.40)	(66.1)	(90.5)	(105.5)	(83.1)	(100.4)	(102.9)					(676.7)
OCWD to GSWC	(3.20)	(0.40)	-	-	-	-	(0.2)	-					(3.8)
Local Total (minus reservoir)	78.5	95.3	81.1	72.4	62.4	60.7	58.6	49.1	-	-	-	-	558.1

Total Usage 2024-25	79	95	81	72	62	61	59	49	-	-	-	-	558
FY 23-24 versus FY 24-25	-7%	+9%	+0%	+6%	+9%	+15%	+49%	+10%					



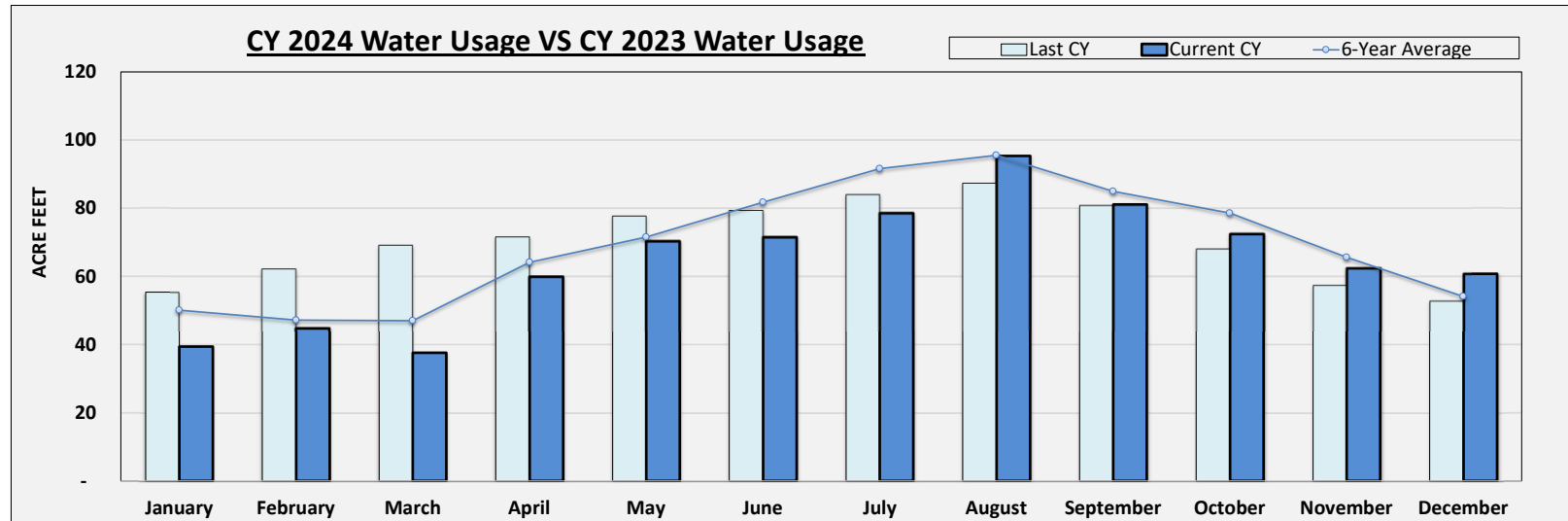
East Orange County Retail Zone Water Usage Report

Historical Monthly Potable Usage (Calendar Year)

Calendar Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2018	37	32	43	70	70	79	87	98	77	81	60	70	803
2019	53	49	45	67	71	84	107	99	85	73	62	40	835
2020	47	29	43	61	59	77	82	87	86	83	68	46	767
2021	47	56	38	52	67	76	90	99	93	90	74	68	849
2022	62	54	43	64	84	95	100	102	89	76	73	48	891
2023	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 2024	39	45	38	60	70	72	79	95	81	72	62	61	774
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2024 VS 2023 Usage -29% -28% -46% -16% -10% -10% -7% +9% +0% +6% +9% +15%



	Population	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2023 Usage (AF)		55	62	69	72	78	79	84	87	81	68	57	53	846
2023 GPCD	3,473	168	208	209	224	235	248	254	265	253	206	180	160	217
2024 Usage (AF)		39	45	38	60	70	72	(61)	(71)	(66)	(91)	(106)	(83)	(154)
2024 GPCD	3,464	120	151	114	188	213	224	(185)	(215)	(207)	(275)	(331)	(252)	(40)

CY over CY change in GPCD

	Population	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
2023-24 Usage (AF)		84	87	81	68	57	53	39	45	38	60	70	72	754
2023-24 GPCD	3,473	254	265	253	206	180	160	119	150	114	187	213	224	194
2024-25 Usage (AF)		79	95	81	72	62	61	59	49	-	-	-	-	558
2024-25 GPCD	3,464	238	289	254	220	196	184	178	165	-	-	-	-	216

FY over FY change in GPCD

*Cumulative through the end of the last month shown

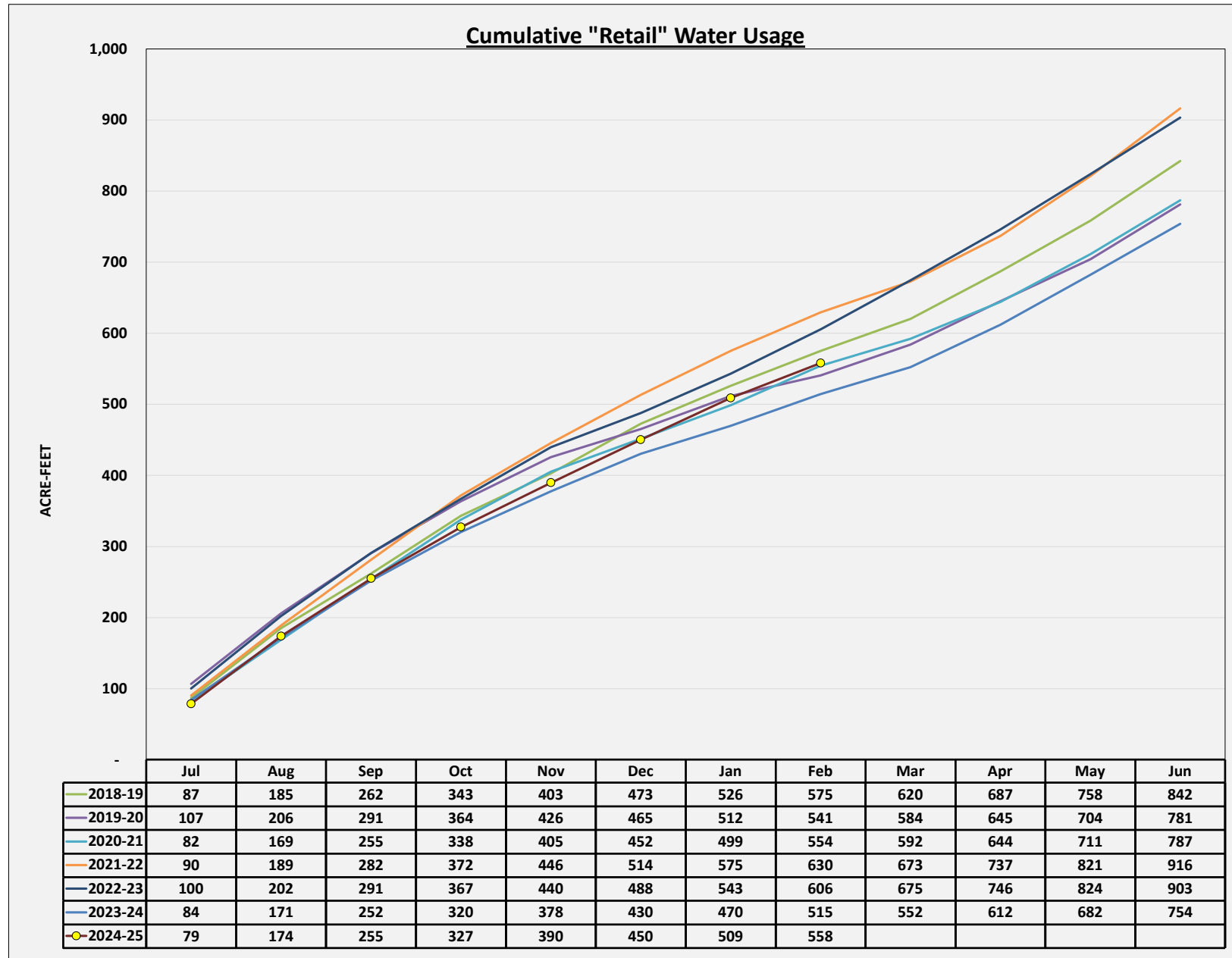
*GPCD = (Total Monthly Production - Fill up Reservoir) / Population/days in the month

*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



MEMO

TO: ENGINEERING AND OPERATIONS COMMITTEE
FROM: GENERAL MANAGER
SUBJECT: WHOLESALE ZONE WATER USE REPORT
DATE: MARCH 20, 2025

Background

This memo serves as cover sheet for the Wholesale Zone water demand and imported water report.

Recommendation

Informational

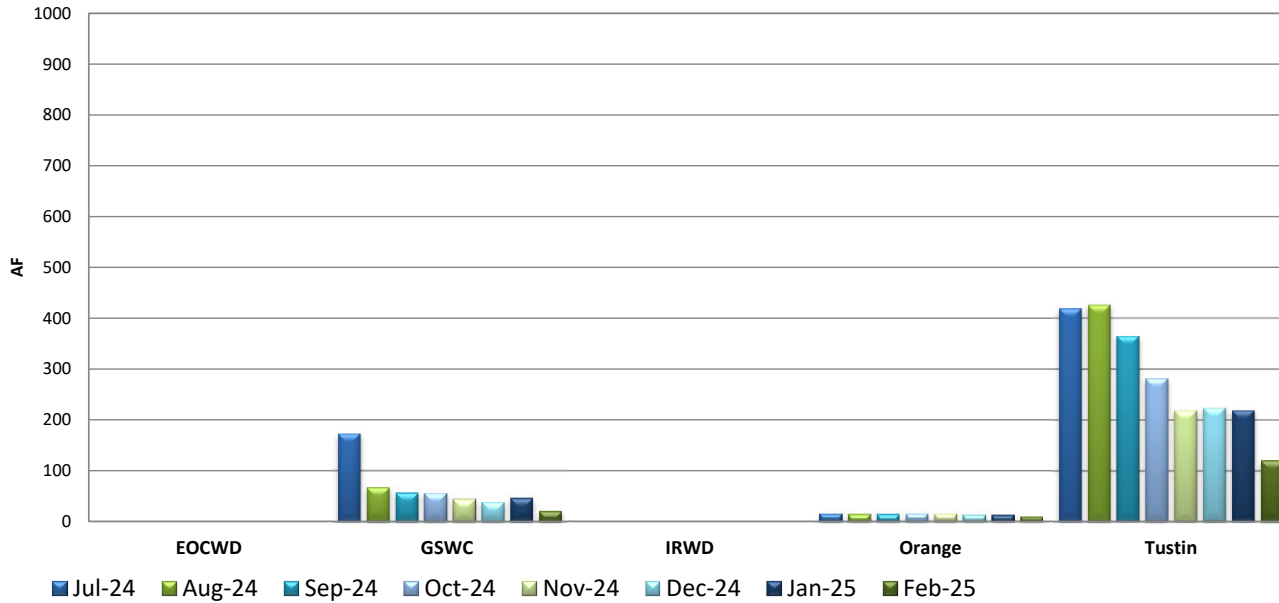
Attachment(s)

WZ Water Demand – February 2025

Wholesale Zone Water Demand

Total Monthly Sales for February 2025 = 153.6 AF

Total YTD Sales for July 2024 - June 2025 = 2,903 AF



EOCWD IMPORTED WATER DELIVERY BALANCE - FY23/24

(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	224.2	0.0	9.4	172.5	181.9	0.0	16.0	0.0	164.0	23.2	203.2	0.0	16.0	0.0	173.4	419.9
AUG	197.1	0.0	0.8	173.0	173.8	0.0	14.8	0.0	67.7	56.6	139.1	0.0	14.8	0.0	68.5	426.7
SEP	136.8	0.0	0.0	178.6	178.6	0.0	14.8	0.0	57.6	50.4	122.8	0.0	14.8	0.0	57.6	365.8
OCT	106.2	0.0	0.0	135.8	135.8	0.0	16.0	0.0	57.0	40.4	113.4	0.0	16.0	0.0	57.0	282.4
NOV	93.1	0.0	0.0	95.7	95.7	0.0	15.1	0.0	45.6	30.5	91.2	0.0	15.1	0.0	45.6	219.3
DEC	97.2	0.0	0.0	105.3	105.3	0.0	12.9	0.0	39.4	21.7	74.0	0.0	12.9	0.0	39.4	224.2
JAN	128.5	0.0	0.1	73.9	74.0	0.0	13.1	0.0	47.3	17.1	77.5	0.0	13.1	0.0	47.4	219.5
FEB	81.1	0.0	0.0	37.5	37.5	0.0	10.2	0.0	21.7	3.1	35.0	0.0	10.2	0.0	21.7	121.7
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
Total	1064.2	0.0	10.3	972.3	982.6	0.0	112.9	0.0	500.3	243.0	856.2	0.0	112.9	0.0	510.6	2279.5

MEMO

TO: ENGINEERING AND OPERATIONS COMMITTEE
FROM: GENERAL MANAGER
SUBJECT: SEWER SYSTEM STATUS AND PERMIT REPORT
DATE: MARCH 20, 2025

Background

There were no sewer spills November – February. The monthly Permits Issued for November – February can be seen below.

Recommendation

Informational

Attachment(s)

Permits Issued:

Received	Name	Address	Type of Development	Issued Permit No	APN	Date Issued
12/7/2023	Rory Mitchell Turk TR The RR M & J O T	1202 Lucinda Way, Tustin, CA 92780	ADU (N)	23-098	502-042-04	12/16/2024
1/25/2024	Pacific Legacy Real Estate & Investment	14192 Yorba St. Tustin, CA 92780	SFR (N)	24-012	401-231-38	1/30/2025
5/1/2024	Haans & Julie Ong Wong	11931 Arroyo Dr. Santa Ana, CA 92705	ADU (N)	24-044	502-151-03	12/30/2024
7/3/2024	Maricarmen Fraga TR M Fraga Revoc TR	14261 Shadybrook Dr. Tustin, CA 92780	ADU (N)	24-055	432-291-36	12/3/2024
7/23/2024	Sholeh Iravantchi TR S Iravantchi 2018 F	13782 Ridgecrest Cir. Tustin, CA 92780	ADU (N)	24-060	395-291-25	11/12/2024
9/10/2024	Alvin Truong	18252 Leon Way, Tustin, CA 92780	ADU (N)	24-080	401-483-03	1/24/2025
10/28/2024	Richard W. Hormuth TR Hormuth Revo	11372 Skyline Dr. Santa Ana, CA 92705	ADU (N)	24-083	502-372-34	11/21/2024
11/19/2024	Yi Ling Lee	14341 Yorba St. Tustin, CA 92780	ADU (N)	24-086	401-321-14	12/11/2024
10/1/2024	Hien Nguyen	18802 & 18812 E. Center Ave. Orange, CA 92869	ADU (N)	24-087	383-271-06	11/22/2024
11/12/2024	Taniel Baghdikian	1512 Windsor Ln. Santa Ana, CA 92705	SFR (R)	24-088	103-178-13	11/26/2024
11/22/2024	Michelle H. Moses TR	11813 Windhill Way, Santa Ana, CA 92705	ADU (N)	24-089	502-161-12	12/23/2024
11/1/2024	Eric & Merija Smalstig	12561 Singing Wood, Santa Ana, CA 92705	SFR (N) ADU (N)	24-090	103-352-17	11/27/2024
12/2/2024	Nick Tran TR Tran Phamily TR	17531 Medford Ave. Tustin, CA 92705	WZ Meter	WZ2024-093	395-162-69	12/3/2024
12/9/2024	Zachary S. & Danielle N. Moore	12851 Malena Dr. Santa Ana, CA 92780	SFR (R)	24-093	094-332-06	12/12/2024
12/1/2024	Esmeralda Flores	1741 La Colina, Santa Ana, CA 92705	ADU (N)	24-097	501-061-01	12/17/2024
10/1/2024	Stanley S. & Kyung Bae	1071 Saint John Pl. Santa Ana, CA 92705	ADU (N)	24-098	502-261-17	1/14/2025
12/18/2024	Thomas Chester McClusky III & Beth Sa	13132 Shasta Way, Santa Ana, CA 92705	WZ Upsize	WZ2024-101	395-323-02	12/18/2024
12/15/2024	Allen Y Fong	1161 La Loma Dr. Santa Ana, CA 92705	SFR (N)	24-100	502-232-07	1/27/2025
12/12/2024	Richard Vreeland	1302 Andrews St. Tustin, CA 92705	SFR (R)	24-101	500-091-13	1/15/2025
1/10/2025	Cesar J. Perez TR 2022 C J Perez & A L Pe	1921 Bent Twig Ln. Tustin, CA 92780	SFR (R)	25-004	103-373-03	1/13/2025
1/11/2025	Natalie Krudwig	1421 Blair Ln. Tustin, CA 92780	SFR (R)	25-003	103-342-33	1/23/2025
2/7/2025	Scott Moody TR Moody Family TR	18521 Auburn Ave. Santa Ana, CA 92705	SFR (R)	25-006	395-472-10	1/27/2025
1/13/2025	Irais Garcia Vazquez TR	19065 E. Spring St. Orange, CA 92869	SFR (R)	25-008	379-294-14	2/28/2025

MEMO

TO: ENGINEERING AND OPERATIONS COMMITTEE
FROM: GENERAL MANAGER
SUBJECT: CAPITAL PROJECT STATUS UPDATE
DATE: MARCH 20, 2025

Background

The purpose of this report is to provide a status update for the approved FY24-25 Capital Projects, including the approved project budget. Project status may include any of the following project phases: Study, Request for Proposals (RFP), Request for Quotations (RFQ), Planning, Design, Bidding, or Construction. Also included for each project is an approximation of percent complete.

Recommendation

Informational

Attachment(s):

CIP Project status

East Orange County Water District Capital Project Summary FY 2024/25

Project Number	Capital Improvement Project Name	FY 24/25 Budget	Project % Complete	Project Status	Notes
SHARED COST PROJECTS					
21-045	SCADA System Improvements {Phase II}	300,000	80%	Construction	Startup/Commissioning complete at several sites
22-001	Financial Software and Implementation	60,000	100%		Springbrook migration complete
24-011	Hazard Mitigation Plan	150,000	10%	Planning	Kickoff meeting took place
25-012	Hydrant Replacements 2025	40,000	10%		Staff determining assets to replace
25-007	District HQ Backup Generator	130,000	95%	Construction	Pending final inspection from City FD
25-008	Field Truck	75,000	100%		Received and in use
25-004	6MG Equipment Canopy	75,000	0%		May be deferred until site design completed
25-005	6MG Site Additional Storage	20,000	0%		May be deferred until site design completed
25-003	AWIA Assessment	150,000	10%	Planning	Kickoff meeting took place
25-015	11.5MG Spare Mixer	15,000	100%		Received
WHOLESALE ZONE					
23-007	6MG Reservoir - Pipeline and Vault Improvements	200,000	50%	Construction	Issued PO, ordered materials
22-051	Wholesale Reservoir Backup Power	245,000	10%	RFQ	Portable Generator that can be used at several sites
24-007	Wholesale Reservoir Management Systems	1,500,000	35%	Design	Staff developing scope
24-001	Master Plan Update - Wholesale	150,000	10%	Planning	Kickoff meeting took place
25-011	Valve Replacements 2025	40,000	10%		Staff determining assets to replace
RETAIL ZONE					
21-011	Brae Glen Pipeline Replacement	500,000	50%	Bidding	Phase I construction complete, bid Phase II
22-040	Circula Panorama Pipeline Replacement / Conversion	4,700,000	100%		Project closed out
22-018	Orange Knoll PRV Station	75,000	50%	Bidding	Design complete, procure materials and Bid
21-009	Springwood Drive Pipeline Improvement	100,000	10%	Design	Design in-house
22-029	East Well Electrical	150,000	50%	Construction	Waiting soft start delivery to complete
22-031	Barrett and Hinton Service Relocations	225,000	50%	Bidding	Design complete, bid
24-008	Daniger Pump Station Upgrades	230,000	10%	Study	Staff evaluating
24-009	St. Jude/Panorama View Pipeline	225,000	35%	Design	Finalizing design, then bid
24-010	Barrett to Cresthaven Pipeline Replacement	75,000	50%	Bidding	Design complete, bid
24-002	Master Plan Update - Retail	150,000	10%	Planning	Kickoff meeting took place
25-011	Valve Replacements 2025	75,000	10%		Staff determining assets to replace
25-001	4" Main Replace/Abandon on Hewes & Fowler	100,000	10%	Design	Finalize design, then bid
25-002	Advanced Metering Infrastructure	1,200,000	10%	RFP	\$1M Funds appropriated but not yet Awarded
25-006	Vista Panorama Pump Station	250,000	35%	Design	Finalizing design, then bid
SEWER SYSTEM					
24-004	Lemon Heights Dr. Lift Station Rehabilitation	60,000	80%	Construction	VFDs replaced, Remote Monitoring in place, staff to replace damaged piping
24-003	SSMP Update and Spill Response	200,000	10%	Planning	Kickoff meeting took place
25-010	Cured in Place Pipe (CIPP) 2025	300,000	10%		Staff determining pipes to line
25-013	Manhole Additions, Raising, Frames & Covers 2025	100,000	50%		Based on outside Agency projects
25-014	Manhole Rehabilitation/Replacement 2025	500,000	10%		Staff determining assets to replace
25-016	Fallen Leaf Sewer Rehab	100,000	10%		Review capacity analysis and monitor
25-009	Robotic Sewer Inspection Camera	44,000	100%		Received and in use
TOTAL CIP		\$ 12,509,000			

* Grant Funding for reimbursement of project
 = Completed project