

AGENDA
REGULAR BOARD MEETING OF THE
SAN ELIJO JOINT POWERS AUTHORITY
OCTOBER 18, 2022 AT 8:30 A.M.
SAN ELIJO WATER CAMPUS – BOARD MEETING ROOM
2695 MANCHESTER AVENUE
CARDIFF BY THE SEA, CALIFORNIA

1. CALL TO ORDER
2. ROLL CALL
3. PLEDGE OF ALLEGIANCE
4. ORAL COMMUNICATIONS/PUBLIC COMMENT PERIOD (NON-ACTION ITEM)
5. AWARDS AND RECOGNITION
6. * **CONSENT CALENDAR**
7. * [APPROVAL OF MINUTES FOR SEPTEMBER 20, 2022 MEETING](#)
8. * [APPROVAL FOR PAYMENT OF WARRANTS AND MONTHLY INVESTMENT REPORTS](#)
9. * [WASTEWATER TREATMENT REPORT](#)
10. * [RECYCLED WATER REPORT](#)
11. * [REPORTABLE MEETINGS](#)
12. * ITEMS REMOVED FROM CONSENT CALENDAR

Items on the Consent Calendar are routine matters and there will be no discussion unless an item is removed from the Consent Calendar. Items removed by a "Request to Speak" form from the public will be handled immediately following adoption of the Consent Calendar. Items removed by a Board Member will be handled as directed by the Board.

REGULAR AGENDA

13. [OCEAN OUTFALL PLUME TRACKING STUDY](#)

No action required. This memorandum is submitted for information only.

Staff Reference: General Manager

14. [RECYCLED WATER PROGRAM - PROPOSED WHOLESAL AGREEMENT AMENDMENT](#)

1. Authorize the General Manager to execute a Third Amendment to the Agreement for Sale of Reclaimed Water with the City of Del Mar and 22nd District Agricultural Association by the San Elijo Joint Powers Authority;
2. Discuss and take action as appropriate.

15. GENERAL MANAGER'S REPORT

Informational report by the General Manager on items not requiring Board action.

16. GENERAL COUNSEL'S REPORT

Informational report by the General Counsel on items not requiring Board action.

17. BOARD MEMBER COMMENTS

This item is placed on the agenda to allow individual Board Members to briefly convey information to the Board or public, or to request staff to place a matter on a future agenda and/or report back on any matter. There is no discussion or action taken on comments by Board Members.

18. CLOSED SESSION

The Board will adjourn to Closed Session to discuss item(s) identified below. Closed Session is not open to the public; however, an opportunity will be provided at this time if members of the public would like to comment on any item listed below. (Three-minute limit.) A closed session may be held at any time during this meeting of the San Elijo Joint Powers Authority for the purposes of discussing potential or pending litigation or other appropriate matters pursuant to the "Ralph M. Brown Act".

None.

19. ADJOURNMENT

The next regularly scheduled San Elijo Joint Powers Authority Board Meeting will be Tuesday, November 15, 2022 at 8:30 a.m.

NOTICE:

The San Elijo Joint Powers Authority's open and public meetings comply with the protections and prohibitions contained in Section 202 of the Americans With Disabilities Act of 1990 (42 U.S.C Section 12132), and the federal rules and regulations adopted in implementation thereof. Any person with a disability who requires a modification or accommodation, including auxiliary aids or services, in order to participate in a public meeting of the SEJPA Board of Directors, may request such modification or accommodation from Michael T. Thornton, General Manager, (760) 753-6203 ext. 72.

The agenda package and materials related to an agenda item submitted after the packet's distribution to the Board is available for public review in the lobby of the SEJPA Administrative Office during normal business hours. Agendas and minutes are available at www.sejpa.org. The SEJPA Board meetings are held on the third Tuesday of each month, with no scheduled meetings in August.

AFFIDAVIT OF POSTING

I, Michael T. Thornton, Secretary of the San Elijo Joint Powers Authority, hereby certify that I posted, or have caused to be posted, a copy of the foregoing agenda on the SEJPA website at www.sejpa.org, and in the following locations:

San Elijo Water Campus (formerly known as San Elijo Water Reclamation Facility),
2695 Manchester Avenue, Cardiff, California
City of Encinitas, 505 South Vulcan Avenue, Encinitas, California
City of Solana Beach, 635 South Highway 101, Solana Beach, California

The notice was posted at least 72 hours prior to the meeting, in accordance with Government Code Section 54954.2(a).

Date: October 13, 2022



Michael T. Thornton, P.E.
Secretary / General Manager

SAN ELIJO JOINT POWERS AUTHORITY
MINUTES OF THE BOARD MEETING
HELD ON SEPTEMBER 20, 2022
AT THE SAN ELIJO WATER CAMPUS

Kellie Hinze, Chair

David Zito, Vice Chair

A meeting of the Board of Directors of San Elijo Joint Powers Authority (SEJPA) was held Tuesday, September 20, 2022, at 8:30 a.m., at the San Elijo Water Campus

1. CALL TO ORDER

Vice Chair Zito called the meeting to order at 8:30 a.m.

2. ROLL CALL

Directors Present:

David Zito
Catherine Blakespear
Kristi Becker

Directors Absent

Kellie Hinze

Others Present:

General Manager
Director of Operations
Director of Finance and Administration
Administrative Coordinator
Administrative Assistant I

Michael Thornton
Chris Trees
Amy Chang
Vanessa Hackney
Tamara Cooper

SEJPA Counsel:

Procopio

Adriana Ochoa

City of Solana Beach:

Director of Engineering/Public Works
Assistant City Manager

Mohammad "Mo" Sammak
Dan King

3. PLEDGE OF ALLEGIANCE

General Manager, Michael Thornton, led the Pledge of Allegiance.

4. ORAL COMMUNICATION/PUBLIC COMMENT PERIOD

None.

5. AWARDS AND RECOGNITION

Tamara Cooper – New Hire – Administrative Assistant I

6. CONSENT CALENDAR

Moved by Board Member Blakespear and seconded by Board Member Becker to approve the Consent Calendar.

Agenda Item No. 7	Approval of Minutes for the July 19, 2022 Meeting
Agenda Item No. 8	Approval for Payment of Warrants and Monthly Investment Report
Agenda Item No. 9a	Wastewater Treatment Report - June
Agenda Item No. 9b	Wastewater Treatment Report - July
Agenda Item No. 10a	Recycled Water Report - June
Agenda Item No. 10b	Recycled Water Report - July
Agenda Item No. 11	Reportable Meetings

Motion carried with the following vote of approval:

AYES: Zito, Blakespear, Becker
 NOES: None
 ABSENT: Hinze
 ABSTAIN: None

13. LABORATORY LEASE AGREEMENT

General Manager, Michael Thornton, stated that earlier this year, SEJPA received two unsolicited proposals for leasing laboratory at the San Elijo Water Campus. Both proposals were for conducting water related research/education to address issues of interest for the water/wastewater industry, as well as for the betterment of public health and the environment. At the June 2022 Board meeting, staff recommended and Board directed developing a lease agreement with Trussell Technologies as their proposed research has greater alignment with SEJPA's interest in potable reuse.

SEJPA's attorney has prepared a lease agreement, which has been reviewed and approved by Trussell Technologies. The lease is for a 400 square feet (sf) of dedicated laboratory area. The agreed upon lease price is \$1,200 per month or approximately \$3 per sf and the term is for 3 years, with provisions for either party to exit the lease early, without penalty or cause.

Moved by Board Member Becker and seconded by Board Member Blakespear to:

1. Authorize the General Manager to enter into a Laboratory Lease Agreement with Trussell Technologies.

Motion carried with the following vote of approval:

AYES: Zito, Blakespear, Becker
 NOES: None
 ABSENT: Hinze
 ABSTAIN: None

14. CAPITAL IMPROVEMENT PROGRAM UPDATE

General Manager, Michael Thornton, stated that in 2017, SEJPA commenced a phased capital improvement program to replace and upgrade wastewater and recycled water infrastructure.

Phase I of the Capital Program was completed in 2019 for a total cost of \$14.7 million, and Phase II was completed in late 2021 for a total cost of \$23.3 million.

Phase III of the Capital Program consists of a single project focused on replacing the biosolids dewatering system, chemical storage, and refurbishing the building that contains the treatment equipment, as well as replace the electrical switch gear and breaker system that serves the majority of the Water Campus. The dewatering system and electrical switch gear has been operational for 32 years and is at the end of its useful life. The construction phase of the project is expected to be in the range of \$9.8 million to \$11.8 million.

Funding available for Phase III totals \$12 million, which includes contributions from all agencies receiving wastewater services from SEJPA and the use of the remaining funds from the 2017 Clean Water Bonds.

Phase IV consists of projects that advance the agency's sustainability and climate action goals. These projects including photovoltaic solar and energy efficiency, stormwater capture and reuse, recycled water and potable reuse, and process optimization. The solar project was completed in parallel with the Water Campus Improvements project to capture efficiencies with underground utility work. The remaining projects are in various stages of development, which includes project scale, scope, budgets, and funding strategies. Staff is pursuing grant funding and multi-agency collaboration to help fund and advance many of these projects.

No action required.

15. RECOMMENDED 2022-23 ORGANIZATION AND LABOR CLASSIFICATION ADJUSTMENTS

General Manager, Michael Thornton, stated that SEJPA employs a non-unionized, technical-skilled workforce of less than 30 employees. Occasionally, the General Manager will provide recommendations to add or delete positions to ensure the agency employs the necessary workforce to successfully complete its mission.

The General Manager has reviewed work trends and forecasts that will likely impact human resource needs and is proposing to add the position of Director of Infrastructure and Sustainability to accommodate future needs. The addition of this position will provide a senior level engineer to lead the agency's infrastructure program and sustainability initiatives.

The addition of the proposed position represents a base salary range of \$140,071 to \$206,391. To accommodate the salary within the approved 2022-23 Budget, the General Manager will freeze hiring of the vacant project manager and financial analyst positions, which total \$167,643 to \$256,432 in base salary. Therefore, the net financial impact is expected to be within budget allowances.

Moved by Board Member Blakespear and seconded by Board Member Becker to:

1. Approve the Addition of the Director of Infrastructure and Sustainability to the FY 2022-23 Budget, Classification and Salary Schedule, and Organization Chart.

Motion carried with the following vote of approval:

AYES: Zito, Blakespear, Becker
NOES None
ABSENT: Hinze
ABSTAIN: None

16. GENERAL MANAGER'S REPORT

General Manager, Michael Thornton, stated that San Elijo is scheduled to receive \$1 million dollars in Grant funding for the Encinitas Ranch Recycled Water Expansion and the Wanket Reservoir Tank Rehabilitation and Connection Project. This \$1 million is out of a larger \$17.8 million awarded to the North San Diego Water Reuse Coalition from the US Bureau of Reclamation.

General Manager Thornton also stated that due to a slope failure above the San Elijo Water Campus, SEJPA is working with our residential neighbors to develop a design to construct a private storm drainage pipe from the residential area to the regional storm drain system at SEJPA.

General Manager Thornton also stated that BCycle, a local bike share company, approached SEJPA in regards to housing roughly 6 bike docks. If the project develops further, staff will return this item to the Board for approval considerations.

17. GENERAL COUNSEL'S REPORT

General Counsel, Adriana Ochoa, gave an update to the Board on Garnier vs. O'connor-Rattcliff case regarding elected officials who run social media accounts.

18. BOARD MEMBER COMMENTS

None.

19. CLOSED SESSION

None.

20. ADJOURNMENT

The meeting adjourned at 9:16 a.m. The next Board of Directors meeting is scheduled to be held on Tuesday, October 18, 2022 at 8:30 a.m.

Respectfully submitted,



Michael T. Thornton, P.E.
General Manager

SAN ELIJO JOINT POWERS AUTHORITY
PAYMENT OF WARRANTS
22-10
For the Month of September 2022

Warrant #	Vendor Name	G/L Account	Warrant Description	Amount
41487	Adam Kaye	Services - Professional	Public communication	\$ 300.00
41488	Affordable Service Appliances	Services - Maintenance	Jet/Vac truck	1,540.00
41489	Allied Storage Containers	Equipment Rental/Lease	20' and 40' storge container 09/01/22 - 09/30/22	359.89
41490	Ardurra Group, Inc	Services - Engineering	Wanket tank conversion evaluation from 07/01/22 to 07/31/22	1,373.75
41491	AT&T	Utilities - Telephone	Phone service - 07/13/22 - 08/12/22	661.04
41492	James Barnett	Dues & Memberships	Employee Reimbursement - Health and wellness, CWEA membership and utility boots	499.40
41493	Bay City Electric Works	Services - Maintenance	Preventative maintenance - generators	9,171.00
41494	California Water Technologies	Supplies - Chem - Ferric Chlo	Ferric chloride	15,930.34
41495	CDM Smith	Services - Engineering	Engineering services - 07/10/22 - 08/06/22	410.00
41496	D & R Crane, Inc.	Services - Maintenance	Crane inspection	2,200.00
41497	City of Encinitas	Service - IT Support	IT services - Jul	8,265.43
41498	City of Encinitas	Service - IT Support	IT services - Aug	8,265.43
41499	City of Encinitas	Service - IT Support	IT services - Sep	8,265.43
41500	Enthalpy Analytical, LLC	Services - Laboratory	Laboratory toxicity testing services for Jul 2022	1,050.00
41501	Grainger, Inc.	Repair Parts Expense	Water pressure reducing valve	164.94
41502	Idexx Distribution, Inc.	Supplies - Lab	Various supplies	3,056.81
41503	Marine Taxonomic Services, LTD	Services - Contractors	Intensive WQ monitoring - Plume tracking - Q3 Jul	2,390.00
41504	McMaster-Carr Supply Co.	Repair Parts Expense	Various parts	867.07
41505	Michael Baker International	Services - Engineering	Plume tracking study, Minimum initial dilution factor re-evaluation study for SEOO	15,390.00
41506	Cosby Oil Company, Inc	Fuel	Fuel - Aug	935.68
41507	Olin Corp - Chlor Alkali	Supplies - Chem - Sodium Hypo	Procurement of sodium hypochlorite	21,664.76
41508	OneSource Distributors, Inc.	Repair Parts Expense	PLC card for Lomas Santa Fe	1,007.52
41509	ProBuild Company, LLC	Supplies - Shop & Field, Lab, Safety	Various supplies	612.62
41510	Procopio Cory Hargreaves	Services - Legal	Jul	13,584.50
41511	Ryan Herco Products Corp.	Supplies - Shop & Field	Press gauge and CPVC gauge guard	534.56
41512	Sage Energy Consulting	Services - Professional	Solar PPA implementation support	27,936.25
41513	Santa Fe Irrigation District	SFID Distribution Pipeline	Pipeline purchase payment	17,226.23
41514	San Dieguito Water District	Utilities - Water	Water	6,074.97
41515	San Dieguito Water District	Utilities - Water	Water	2,534.00
41516	Thatcher Company of California	Supplies - Chemicals	Aluminum sulfate	9,877.96
41517	Unifirst Corporation	Services - Uniforms	Uniform service	688.46
41518	Vantagepoint Transfer Agents	EE Deduction Benefits	ICMA - 457	6,827.93
41519	Vantagepoint Transfer Agents	ICMA Retirement	ICMA - 401a	4,504.91
41520	WageWorks	Payroll Processing Fees	Admin fee - Aug	139.25
41521	Void			-
41522	AZ Dept. of EQ	Fees - Permits	Biosolids permit fee	1,250.00
41523	Affordable Service Appliances	Services - Maintenance	Jet/Vac truck	770.00
41524	Airgas USA, LLC	Repair Parts Expense	F-750 enpak system service	495.38
41525	AT&T	Utilities - Telephone	Phone service - 08/13/22 - 09/12/22	641.02
41526	AT&T	Utilities - Telephone	Alarm service - Aug	410.89
41527	Consolidated Electrical Dist.	Repair Parts Expense	Cover for pull box	855.27
41528	Corodata	Rent	Record storage - Aug	107.79
41529	Denali Water Solutions LLC	Services - Biosolids Hauling	Biosolids hauling and reuse - Jul	16,055.67
41530	Devin McGinness	Dues & Memberships	Employee reimbursement - Certificate grade 2 fee	125.00
41531	Duke Energy Renewables Company	Utilities - Solar Power	Solar - Jun and Jul	15,279.88
41532	Environmental Express, Inc.	Supplies - Lab	Disposable BOD bottles	398.11
41533	Eurofins Calscience, LLC	Services - Laboratory	Sludge and testing water samples	2,183.00
41534	Evoqua Water Technologies	Supplies - Chem - Odor	Bioxide	6,568.23
41535	Excel Landscape, Inc.	Services - Maintenance	Ground maintenance service - Aug	4,202.00
41536	Fluid Components International	Services - Maintenance	Annual field service	1,672.77
41537	FRS Environmental	Services - Maintenance	Parts washer service	291.00
41538	Grainger, Inc.	Repair Parts Expense	Hoist contractor	1,285.03
41539	The Hardwood & Hardware Co.	Repair Parts Expense	Various repair parts	2,146.75
41540	Hardy Diagnostics	Supplies - Lab	Various supplies	866.91
41541	Michael Henke	Seminars/Education	Employee reimbursement - Seminar	150.00
41542	Leaf & Cole, LLP	Services - Accounting	Audit service	1,225.00
41543	Liquid Environmental Solution	Services - Grease & Scum, Grit & Screenings	Pumping service, Roll of box	1,959.00
41544	MetLife - Group Benefits	Dental/Vision	Dental - Sep and Oct	3,834.84
41545	Cosby Oil Company, Inc	Fuel	Fuel - Sep	2,411.62
41546	The Nyhart Company	Services - Accounting	GASB 75 Report FYE 06/30/22	1,500.00
41547	Olin Corp - Chlor Alkali	Supplies - Chem - Sodium Hypo	Procurement of sodium hypochlorite	7,327.65
41548	ProBuild Company, LLC	Shop Tools and Equip., Repair Parts Expense	Various repair parts and tools	574.79
41549	Procopio Cory Hargreaves	Services - Legal	Aug	7,281.75
41550	Rusty Wallis, Inc.	Services - Maintenance	Water softener, tank service and salt bags	346.00
41551	Santa Fe Irrigation District	Utilities - Water	Water	403.85
41552	Santa Fe Irrigation District	SFID Distribution Pipeline	Pipeline purchase payment	5,944.21
41553	San Dieguito Water District	Utilities - Water	Water	241.81
41554	Terminix Processing Center	Services - Maintenance	Pest control service	535.00
41555	Thatcher Company of California	Supplies - Chemicals	Aluminum sulfate	3,327.77
41556	Tyler Cook	Dues & Memberships	Employee reimbursement - Certificate grade 3 renewal	210.00
41557	Unifirst Corporation	Services - Uniforms, Safety Supplies	Uniform service and gloves	1,379.06
41558	Univar Solutions USA Inc.	Supplies - Chemicals	Caustic soda, Citric acid	9,903.15
41559	Underground Service Alert/SC	Services - Alarm	Dig alert, Safe excavation board	187.20
41560	USA Bluebook	Supplies - Lab	Various supplies	3,267.71
41561	Vantagepoint Transfer Agents	EE Deduction Benefits	ICMA - 457	6,809.25
41562	Vantagepoint Transfer Agents	ICMA Retirement	ICMA - 401a	4,586.84
41563	Verizon Wireless	Utilities - Telephone	08/11/22 - 09/10/22	620.75
41564	Verizon Wireless	Utilities - Telephone	08/08/22 - 09/07/22	1,006.36
41565	Benefits Coordinators Corp.	Dental/Vision	Vision - Sep and Oct	576.00
41566	VWR International, Inc.	Supplies - Lab	Various supplies	562.79
41567	WM Corporate Services, Inc.	Services - Grit & Screenings	10 yard roll of disposal	9,518.83
On-line 705	P.E.R.S.	Medical Insurance - Pers	Health - Aug	21,865.72
On-line 706	Public Employees- Retirement	Retirement Plan - PERS	Retirement - 08/06/22 - 08/19/22	15,974.89
On-line 707	Public Employees- Retirement	Retirement Plan - PERS	Retirement - 08/20/22 - 09/02/22	16,217.38
On-line 708	ReadyRefresh	Supplies - Lab	Kitchen and lab supplies	780.06
On-line 709	Aflac	EE Deduction Benefits	Aflac - Sep	339.60
On-line 710	BankCard Center	Supplies - Safety	Shop field, office supplies and parts	5,575.25
On-line 711	Calpers	Medical Insurance - Pers	Health - Oct	25,513.62
On-line 712	Public Employees- Retirement	Retirement Plan - PERS	Retirement - 09/03/22 - 09/16/22	16,273.44
On-line 713	San Diego Gas & Electric	Utilities - Gas & Electric	Gas and electric - 08/10/22 - 09/08/22	100,590.43
	San Elijo Payroll Account	Payroll	Payroll - 09/09/2022	83,070.84
	San Elijo Payroll Account	Payroll	Payroll - 09/23/2022	86,149.30
				<u>\$ 697,956.59</u>

SAN ELIJO JOINT POWERS AUTHORITY

PAYMENT OF WARRANTS SUMMARY

**For the Month of September 2022
As of September 30, 2022**

PAYMENT OF WARRANTS		\$ 697,956.59
Reference Number	22-10	

I hereby certify that the demands listed and covered by warrants are correct and just to the best of my knowledge, and that the money is available in the proper funds to pay these demands. The cash flows of the SEJPA, including the Member Agency commitment in their operating budgets to support the operations of the SEJPA, are expected to be adequate to meet the SEJPA's obligations over the next six months. I also certify that the SEJPA's investment portfolio complies with the SEJPA's investment policy.



Amy Chang
Director of Finance & Administration

STATEMENT OF FUNDS AVAILABLE FOR PAYMENT OF WARRANTS
AND INVESTMENT INFORMATION
As of September 30, 2022

FUNDS ON DEPOSIT WITH	AMOUNT
LOCAL AGENCY INVESTMENT FUND <i>(SEPTEMBER 2022 YIELD 1.513%)</i>	
UNRESTRICTED DEPOSITS	\$ 19,128,162.22
CALIFORNIA BANK AND TRUST <i>(2022 SEPTEMBER YIELD 0.01%)</i>	
REGULAR CHECKING	260,155.68
PAYROLL CHECKING	5,000.00
PARS - TRUSTEE (POST-EMPLOYMENT BENEFITS TRUST) <i>(AUGUST 2022 YIELD -2.66%)</i>	399,894.87
TOTAL RESOURCES	\$ 19,793,212.77

SAN ELIJO JOINT POWERS AUTHORITY
MEMORANDUM

October 18, 2022

TO: Board of Directors
San Elijo Joint Powers Authority

FROM: General Manager

SUBJECT: WASTEWATER TREATMENT REPORT

RECOMMENDATION

No action required. This memorandum is submitted for information only.

DISCUSSION

Monthly Treatment Plant Performance and Evaluation

Wastewater treatment for the San Elijo Joint Powers Authority (SEJPA) met all National Pollutant Discharge Elimination System (NPDES) ocean effluent limitation requirements for the month of August 2022. The primary indicators of treatment performance include the removal of Carbonaceous Biochemical Oxygen Demand (CBOD) and Total Suspended Solids (TSS). The SEJPA is required to remove a minimum of 85 percent of the CBOD and TSS from the wastewater. Treatment levels for **CBOD** and **TSS** were **99.2** and **99.4** percent removal, respectively, during the month of August.

Exceptional Water Treatment

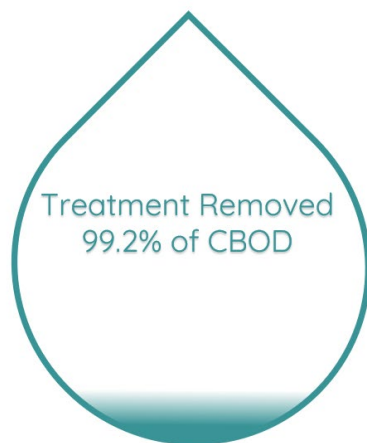
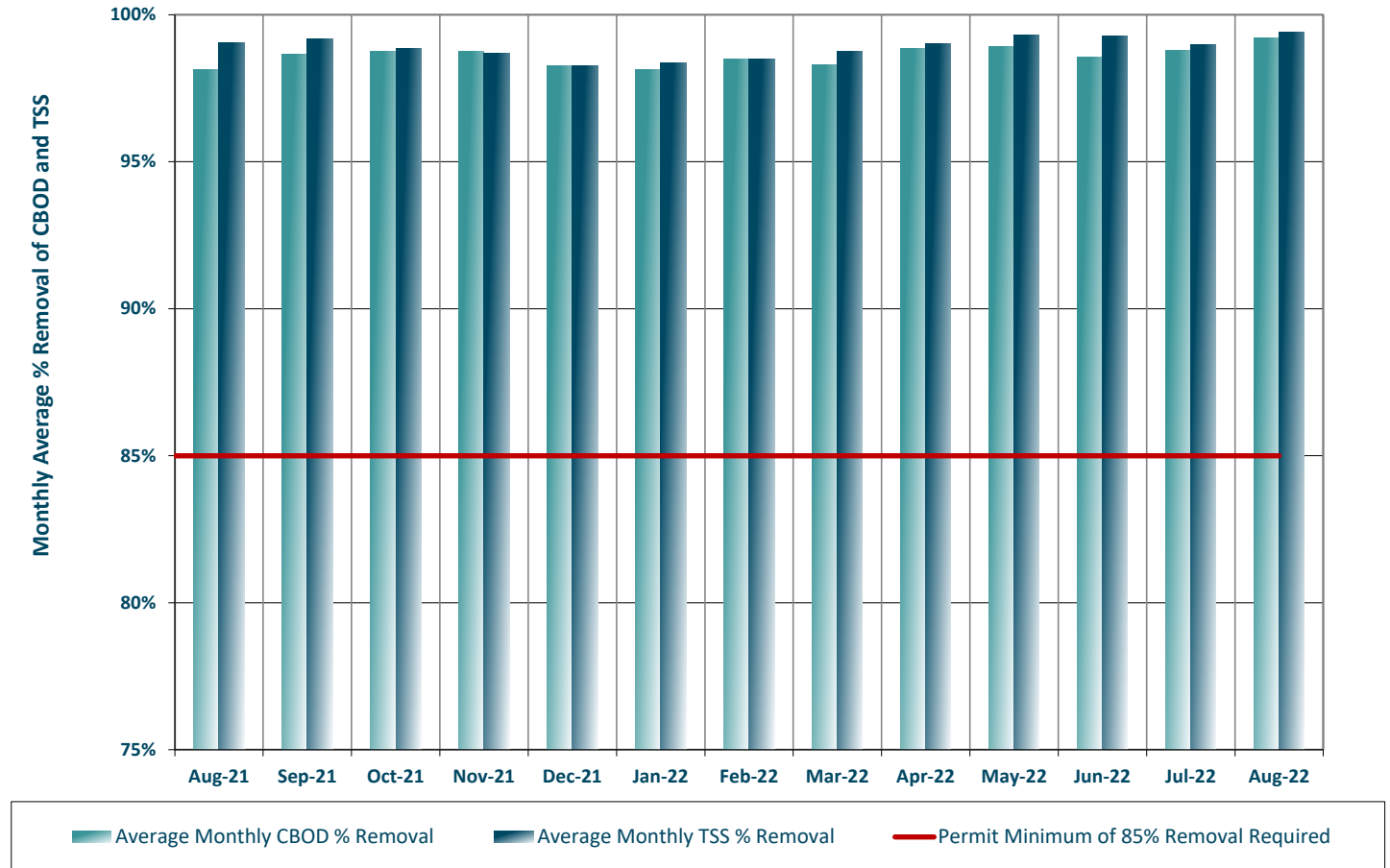


Figure 1 (below) shows historic treatment performance trends for the removal of CBOD and TSS over the last 13 months compared to the permit minimum removal requirement of 85%.

Figure 1: Wastewater Treatment Performance of the SEJPA % Removal of Carbonaceous Biochemical Oxygen Demand (CBOD) and Total Suspended Solids (TSS)



Figures 2 and 3 (below) show historic influent vs effluent CBOD and TSS concentration fluctuations in the strength of the wastewater being received and discharged by the SEJPA.

FIGURE 2: TREATED EFFLUENT FLOWS REMOVAL OF CBOD

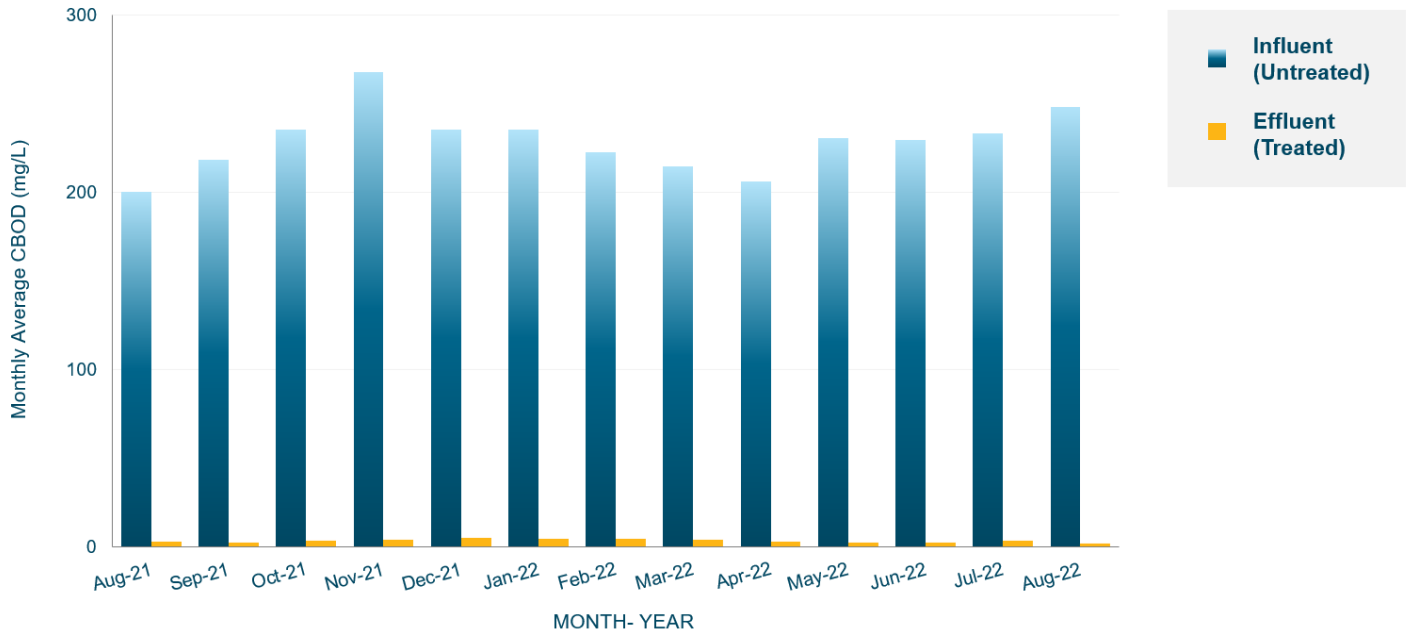
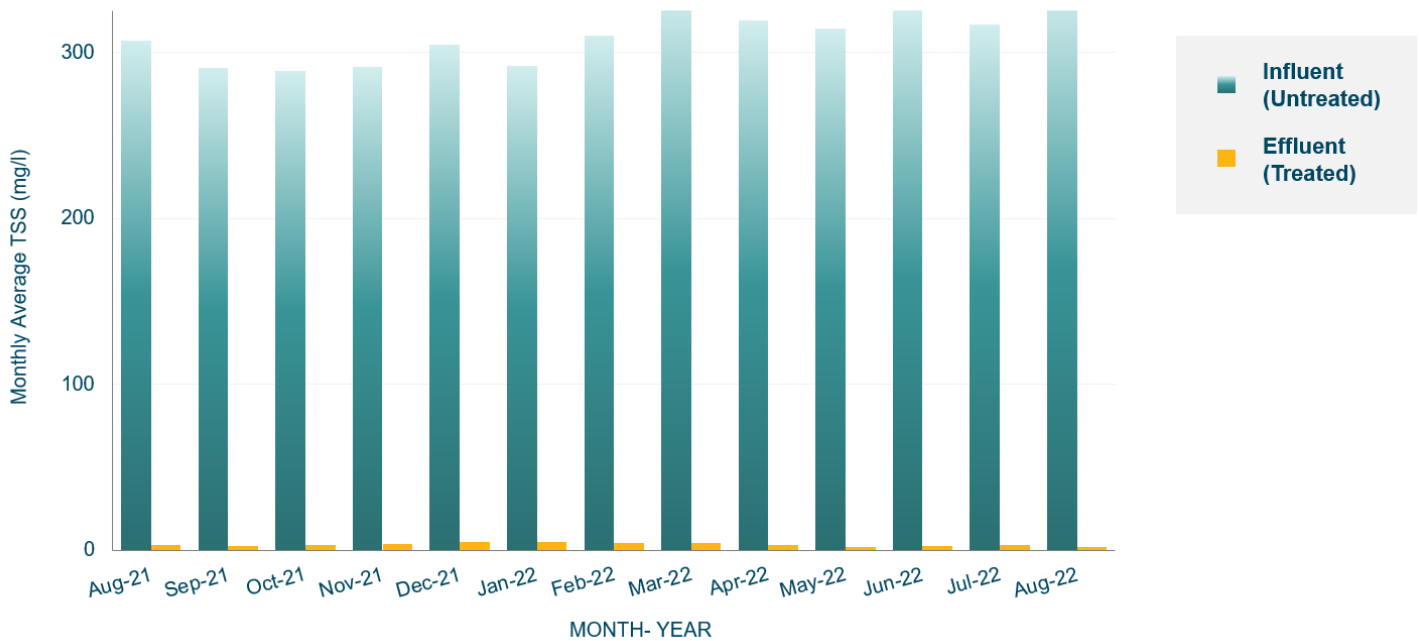


FIGURE 3: TREATED EFFLUENT FLOWS REMOVAL OF TSS



Member Agency Flows

Table 1 (below) presents the influent and effluent flows for the month of August. Average daily influent flows were recorded for each Member Agency. Total effluent flow was calculated for the San Elijo Water Campus. Approximately 93% of the influent flow was diverted for recycled water use in August.

TABLE 1 – INFLUENT AND EFFLUENT FLOWS IN AUGUST

AUGUST			
	Influent (mgd)	Recycled Water (mgd)	Effluent (mgd)*
Cardiff Sanitary Division	1.163	1.076	0.087
City of Solana Beach	0.929	0.860	0.069
Rancho Santa Fe SID	0.133	0.123	0.010
City of Del Mar	0.448	0.415	0.033
Total San Elijo Water Campus Flow	2.673	2.474	0.199

* Effluent is calculated by subtracting the recycled water production from the influent wastewater.

Table 2 (below) presents the historical average and unit influent rates per month for each of the Member Agencies during the past 3 years. It also presents the number of connected Equivalent Dwelling Units (EDUs) for each of the Member Agencies during this same time period.

TABLE 2 - SAN ELIJO WATER CAMPUS MONTHLY REPORT - FLOWS AND EDUS

MONTH	AVERAGE DAILY INFLUENT FLOW RATE (MGD)					CONNECTED EDUs					AVERAGE UNIT INFLUENT FLOW RATE (GAL/EDU/DAY)				
	CSD	RSF	SB	DM	TOTAL PLANT	CSD	RSF	SB	DM	TOTAL EDUS	CSD	RSF	SB	DM	TOTAL PLANT
Aug-19	1.148	0.126	0.938	0.567	2.779	8,505	570	8,105	2,612	19,792	135	221	116	217	140
Sep-19	1.131	0.132	0.918	0.393	2.574	8,507	570	8,105	2,612	19,794	133	232	113	150	130
Oct-19	1.120	0.124	0.914	0.378	2.536	8,507	571	8,105	2,612	19,795	132	217	113	145	128
Nov-19	1.230	0.137	0.927	0.437	2.731	8,510	571	8,105	2,612	19,798	145	240	114	172	138
Dec-19	1.347	0.173	0.946	0.483	2.949	8,516	571	8,105	2,612	19,804	158	303	117	185	149
Jan-20	1.194	0.163	0.917	0.410	2.684	8,517	571	8,105	2,612	19,805	140	286	113	157	136
Feb-20	1.176	0.146	0.919	0.352	2.593	8,517	571	8,105	2,612	19,805	138	256	113	135	131
Mar-20	1.432	0.185	0.907	0.389	2.913	8,519	572	8,105	2,612	19,808	168	324	112	149	147
Apr-20	1.720	0.231	0.912	0.377	3.240	8,522	572	8,105	2,612	19,811	202	404	113	153	164
May-20	1.293	0.158	0.853	0.304	2.608	8,523	573	8,105	2,612	19,813	152	276	105	133	132
Jun-20	1.251	0.164	0.897	0.434	2.746	8,534	576	8,105	2,612	19,826	147	285	111	179	139
Jul-20	1.231	0.157	0.937	0.548	2.873	8,535	576	8,110	2,616	19,837	144	273	116	222	145
Aug-20	1.226	0.156	0.950	0.478	2.810	8,540	577	8,110	2,616	19,843	144	271	117	194	142
Sep-20	1.225	0.151	0.956	0.362	2.694	8,540	578	8,110	2,616	19,844	143	261	118	146	136
Oct-20	1.197	0.142	0.940	0.316	2.595	8,543	579	8,110	2,616	19,848	140	245	116	128	131
Nov-20	1.200	0.142	0.927	0.341	2.610	8,543	579	8,110	2,616	19,848	140	245	114	138	131
Dec-20	1.217	0.141	0.893	0.304	2.555	8,543	579	8,110	2,616	19,848	142	244	110	123	129
Jan-21	1.238	0.150	0.909	0.323	2.620	8,543	579	8,110	2,616	19,848	145	259	112	129	132
Feb-21	1.224	0.151	0.926	0.306	2.607	8,548	579	8,110	2,616	19,853	143	261	114	121	131
Mar-21	1.291	0.160	0.968	0.332	2.751	8,548	579	8,110	2,616	19,853	151	277	119	131	139
Apr-21	1.232	0.160	0.925	0.320	2.637	8,552	579	8,110	2,616	19,857	144	277	114	129	133
May-21	1.189	0.157	0.932	0.323	2.601	8,552	579	8,110	2,616	19,857	139	271	115	130	131
Jun-21	1.218	0.148	0.938	0.358	2.662	8,554	579	8,110	2,616	19,859	142	256	116	145	134
Jul-21	1.183	0.144	0.972	0.435	2.734	8,554	579	8,124	2,616	19,873	138	249	120	178	138
Aug-21	1.178	0.150	0.966	0.480	2.774	8,556	579	8,124	2,616	19,875	138	259	119	196	140
Sep-21	1.153	0.129	0.948	0.353	2.583	8,557	579	8,124	2,616	19,876	135	223	117	144	130
Oct-21	1.225	0.126	0.885	0.329	2.565	8,557	579	8,124	2,616	19,876	143	218	109	139	129
Nov-21	1.156	0.131	0.911	0.329	2.527	8,557	581	8,124	2,616	19,878	135	226	112	135	127
Dec-21	1.264	0.145	0.913	0.310	2.632	8,557	581	8,124	2,616	19,878	148	250	112	127	132
Jan-22	1.174	0.140	0.906	0.357	2.577	8,557	581	8,124	2,616	19,878	137	241	112	145	130
Feb-22	1.113	0.158	0.929	0.300	2.500	8,557	581	8,124	2,616	19,878	130	272	114	120	126
Mar-22	1.176	0.142	0.946	0.307	2.571	8,557	581	8,124	2,616	19,878	137	245	116	123	129
Apr-22	1.134	0.140	0.875	0.315	2.464	8,557	582	8,124	2,616	19,879	133	241	108	129	124
May-22	1.146	0.140	0.877	0.301	2.464	8,557	582	8,124	2,616	19,879	134	241	108	123	124
Jun-22	1.133	0.138	0.921	0.452	2.644	8,557	583	8,124	2,616	19,880	132	237	113	184	133
Jul-22	1.124	0.129	0.948	0.438	2.639	8,557	583	8,142	2,616	19,898	131	221	116	179	133
Aug-22	1.163	0.133	0.929	0.448	2.673	8,557	583	8,142	2,616	19,898	136	228	114	185	134

CSD: Cardiff Sanitary Division

RSF: Ranch Santa Fe Community Service District

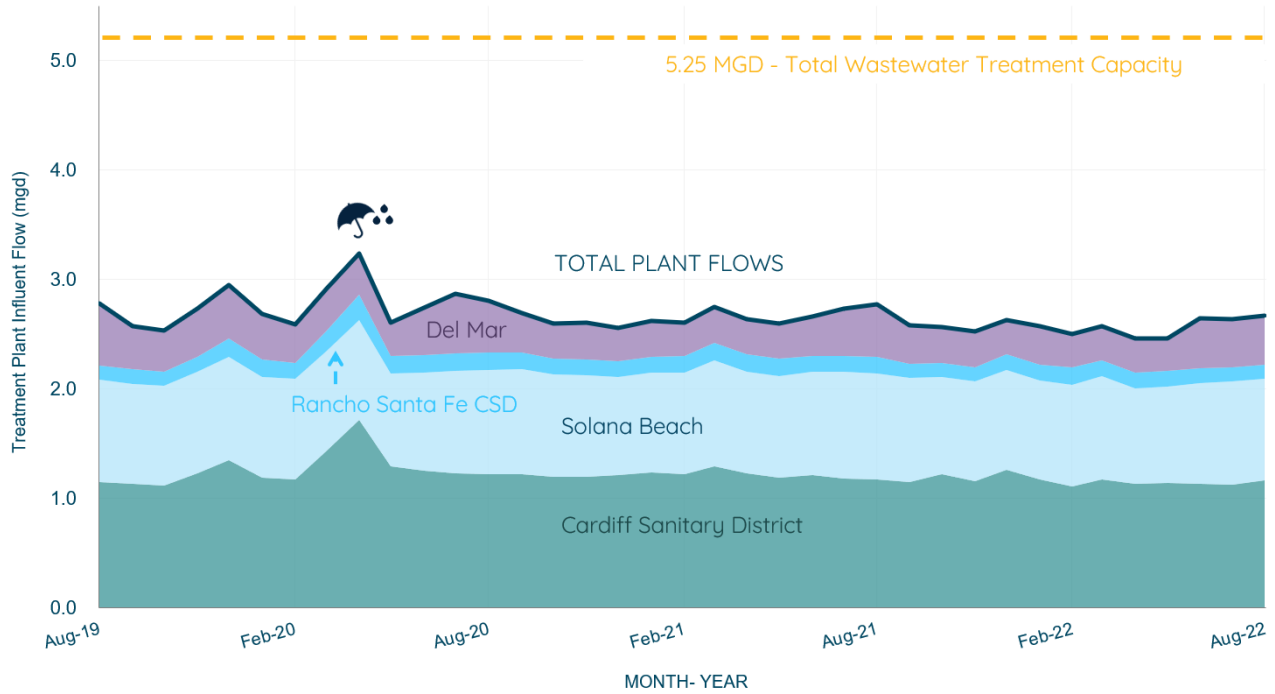
SB: Solana Beach

DM: City of Del Mar

EDU: Equivalent Dwelling Unit

Figure 4 (below) presents the 3-year historical average daily flows per month for each Member Agency. This is to provide a historical overview of the average flow treated for each agency. Also shown in Figure 4 is the total wastewater treatment capacity of the water campus, 5.25 mgd, of which each Member Agency has the right to 2.2 mgd, Rancho Santa Fe Community Service District leases 0.25 mgd, and the City of Del Mar leases 0.60 mgd.

FIGURE 4: SEJPA AVERAGE DAILY FLOWS OVER THE PAST 3 YEARS



City of Escondido Flows

The average and peak flow rate for the month of August 2022 from the City of Escondido's Hale Avenue Resource Recovery Facility, which discharges through the San Elijo Ocean Outfall, is reported below in Table 3.

TABLE 3 – CITY OF ESCONDIDO FLOWS

	Flow (mgd)
Escondido (Average flow rate)	6.70
Escondido (Peak flow rate)	17.6

Connected Equivalent Dwelling Units

The Cities of Encinitas, Solana Beach and Del Mar updated the number of connected EDUs that are reported to the SEJPA in July 2022. The Rancho Santa Fe CSD update their connected EDUs report every month. The number of EDUs connected for each of the Member Agencies and lease agencies is reported in Table 4 below.

TABLE 4 – CONNECTED EDUs BY AGENCY

	Connected (EDU)
Cardiff Sanitary Division	8,557
Rancho Santa Fe SID	583
City of Solana Beach	7,806
San Diego (to Solana Beach)	337
City of Del Mar	2,616
Total EDUs to System	19,898

Respectfully submitted,



Michael T. Thornton, P.E.
General Manager

*

SAN ELIJO JOINT POWERS AUTHORITY
MEMORANDUM

October 18, 2022

TO: Board of Directors
San Elijo Joint Powers Authority

FROM: General Manager

SUBJECT: RECYCLED WATER REPORT

RECOMMENDATION

No action required. This memorandum is submitted for information only.

DISCUSSION

Recycled Water Production

For the month of August 2022, recycled water demand was 271.8 acre-feet (AF), which was met using 267.3 AF of recycled water and 4.5 AF supplementation with potable water. August demand was 25.4% above budget expectations of 217 AF.

Figure 1 (attached) provides a graphical view of annual recycled water demand spanning the last 10 fiscal years, with the overlay of annual rainfall. Since the recycled water program primarily serves outdoor irrigation, annual demand is reduced during wet periods and increases during times of drought. Figure 2 (attached) shows the monthly recycled water demand for each August for the last ten years to provide a year-over-year comparison. Figure 3 (attached) compares budget versus actual recycled water sales for FY 2021-22.

Respectfully submitted,



Michael T. Thornton, P.E.
General Manager

FIGURE 1: RECYCLED WATER DEMAND AND RAINFALL COMPARISON

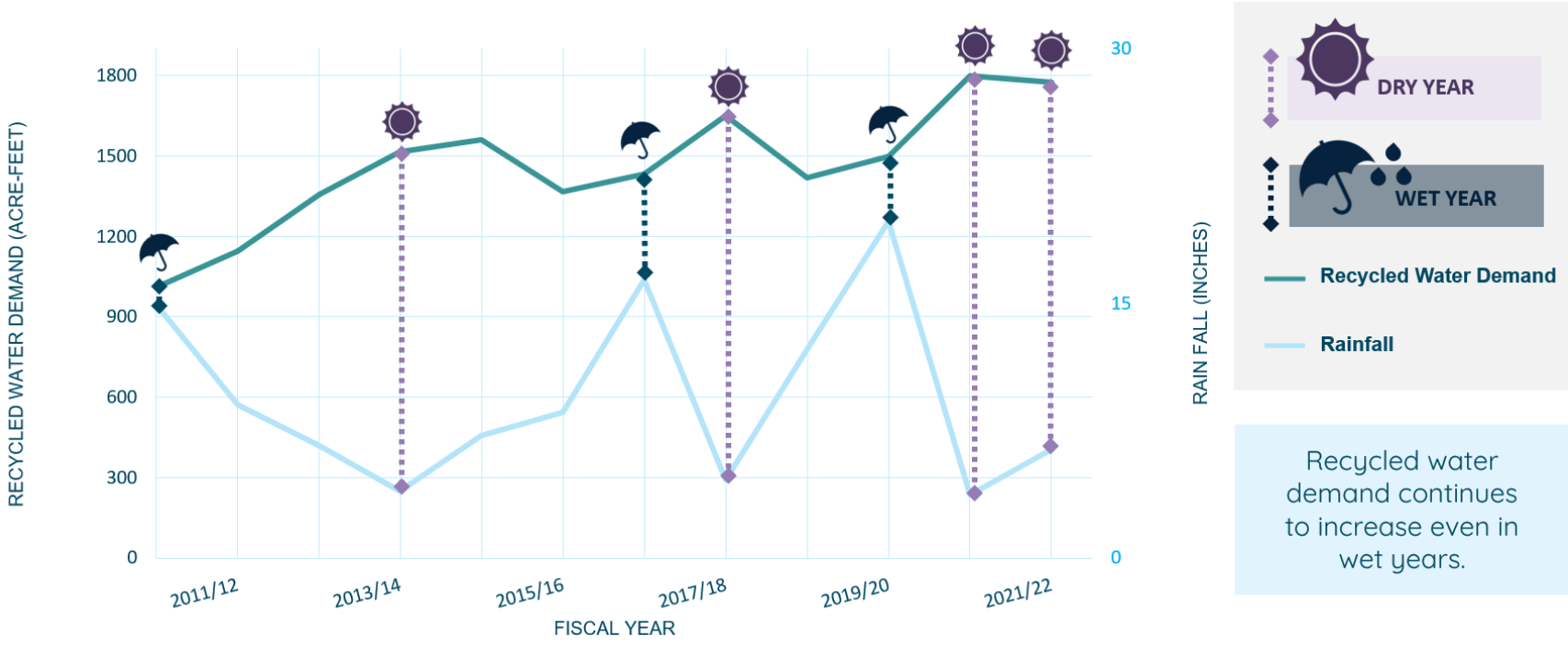


FIGURE 2: AUGUST RECYCLED WATER DEMAND

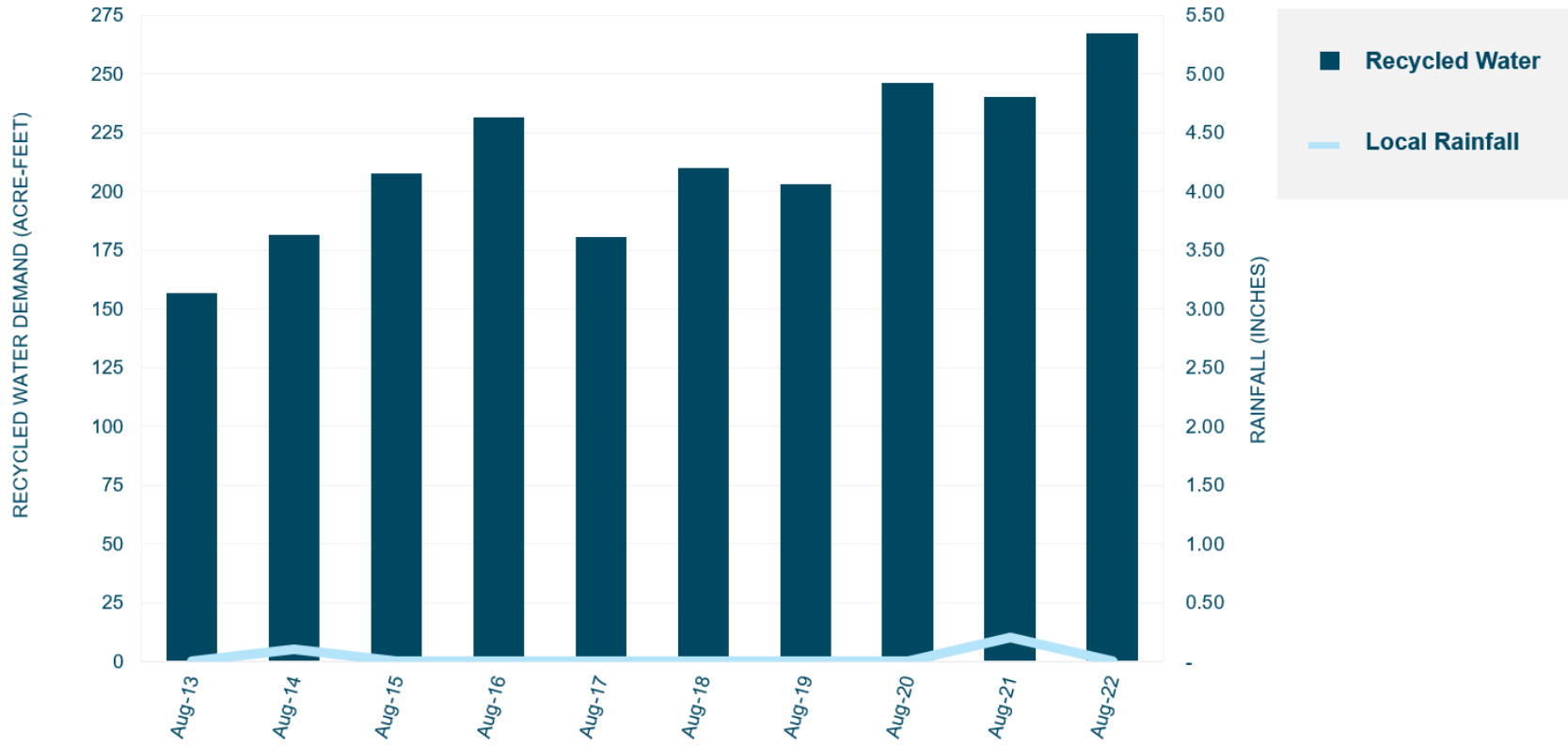
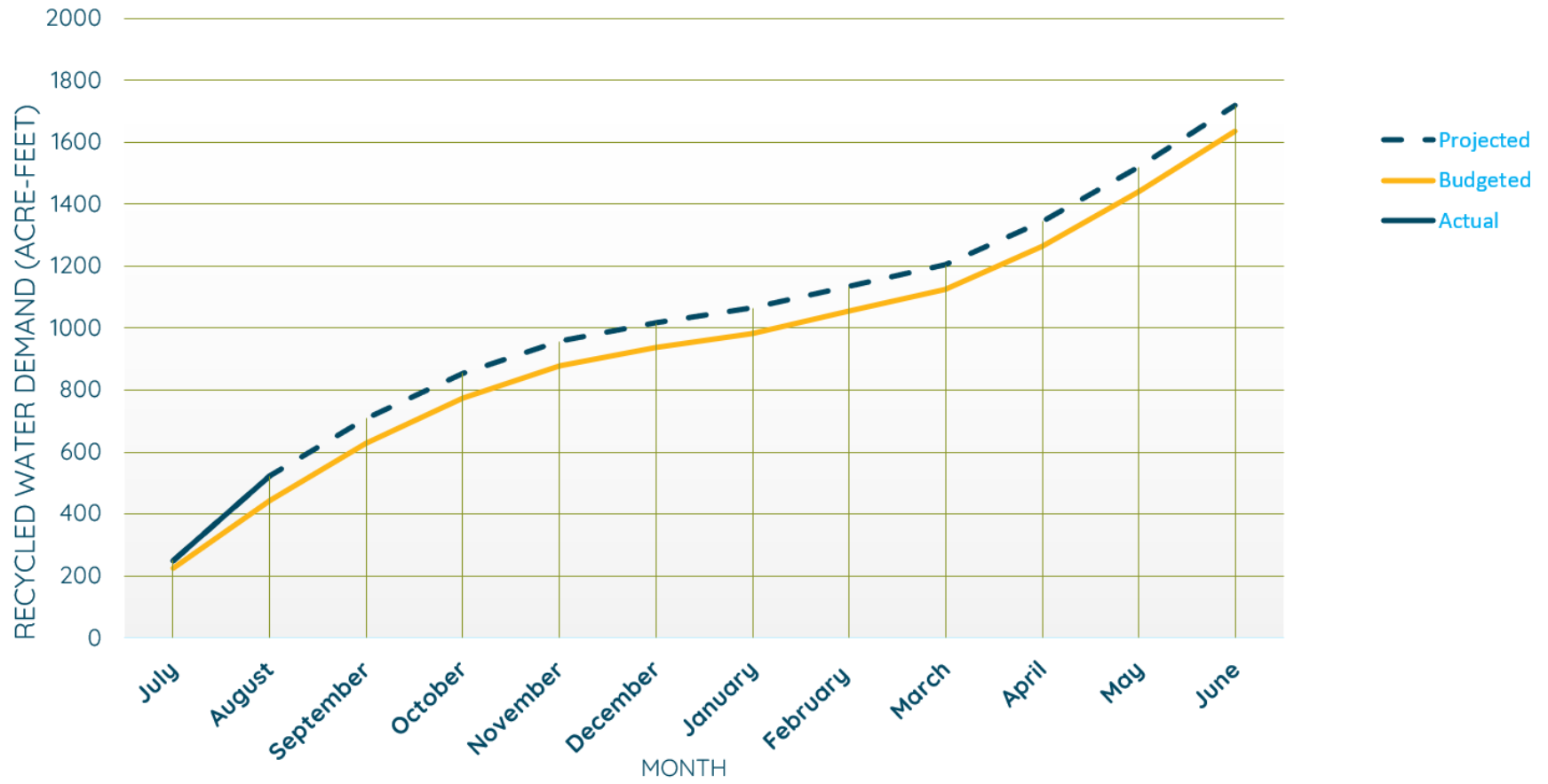


FIGURE 3: FY2022/23 CUMULATIVE DEMAND VS BUDGET



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AGENDA ITEM NO. 11

SAN ELIJO JOINT POWERS AUTHORITY
MEMORANDUM

October 18, 2022

TO: Board of Directors
San Elijo Joint Powers Authority

FROM: General Manager

SUBJECT: REPORTABLE MEETINGS

RECOMMENDATION

No action required. This memorandum is submitted for information only.

BACKGROUND

The General Manager or his designee may meet monthly with one or more Board Members in preparation for the Board Meeting.

DISCUSSION

The following meetings have taken place since the previous Board Meeting:

1. Meeting to review Board Meeting Agenda with Board Vice Chair Zito on September 16, 2022.

FINANCIAL IMPACT

Per the SEJPA Restatement Agreement, SEJPA pays the Board Member \$160 for each reportable meeting. These meetings are accounted for in our annual budget.

Respectfully submitted,



Michael T. Thornton, P.E.
General Manager

SAN ELIJO JOINT POWERS AUTHORITY
MEMORANDUM

October 18, 2022

TO: Board of Directors
San Elijo Joint Powers Authority

FROM: General Manager

SUBJECT: OCEAN OUTFALL PLUME TRACKING STUDY

RECOMMENDATION

No action required. This memorandum is submitted for information only.

BACKGROUND

The San Elijo Joint Powers Authority (SEJPA) discharges treated municipal wastewater from the San Elijo Water Campus to the San Elijo Ocean Outfall (SEOO) in accordance with NPDES Permit No. CA0107999 and Regional Board Order No. R9-2018-0003. This Order incorporates both state and federal water quality requirements and has a scheduled renewal frequency of every 5 years.

Similarly, the Regional Board approved Order No. R9-2018-0002 for the City of Escondido (Escondido) that shares the SEOO, and Order No. R9-2018-0059 for the Encina Wastewater Authority (EWA) that discharges treated secondary effluent through the Encina Ocean Outfall (EOO) in Carlsbad. All three Orders established a new series of monitoring and reporting requirements with various work plans and studies to be submitted during the permit period.

For one of the studies, the Regional Board required SEJPA, Escondido, and EWA to determine the movement and fate of wastewater discharged from the outfalls in a Plume Tracking Study. The SEOO and EOO discharges involve similar ocean depths and distances offshore, as well as similar wastewater characteristics and ocean current patterns. SEJPA, Escondido, and EWA agreed that coordination of SEOO and EOO plume tracking activities could yield information that would be instructive in analyzing plume behavior at both outfalls in a more cost effective manner.

DISCUSSION

In November 2020 the SEJPA Board authorized staff to enter into a professional services agreement with Michael Baker International (MBI) to conduct a joint plume tracking study with EWA and Escondido. Field studies using autonomous underwater vehicles (AUVs) and boat-mounted sensors were conducted by Michael Baker in September 2021, December 2021, and March 2022. Key data gathered during these studies included ocean water temperature, conductivity, density, salinity, colored dissolved organic matter (CDOM), and fluorescent

dissolved organic matter (fDOM). The data was evaluated by MBI, and a report of the findings has been prepared for submission to the RWQCB.

Conclusions of the plume tracking report can be summarized as follows:

- Ocean health is not affected by the SEOO discharge as the effluent diffuser system mixes the discharge efficiently and the discharge becomes indistinguishable from ambient ocean water within a few hundred feet of the outfall.
- Nutrients and contaminants that are flushed from the San Elijo Lagoon in normal tidal cycles represent the most substantial threat to nearshore recreation and aquatic life compared to SEOO discharge.
- The conceptual model of the ocean discharge that has been established by data collection and analysis was confirmed by the plume tracking study.

FINANCIAL IMPACT

The cost of the Plume Tracking Study is expected to be \$595,000 and the project is 93% complete. The cost is being shared by SEJPA, Escondido, and EWA based on ocean outfall ownership and flow discharge to the ocean.

RECOMMENDATION

No action required. This memorandum is submitted for information only.

Respectfully submitted,



Michael T. Thornton, P.E.
General Manager

SAN ELIJO JOINT POWERS AUTHORITY
MEMORANDUM

October 18, 2022

TO: Board of Directors
San Elijo Joint Powers Authority

FROM: General Manager

SUBJECT: RECYCLED WATER PROGRAM - PROPOSED WHOLESALE AGREEMENT
AMENDMENT

RECOMMENDATION

It is recommended that the Board of Directors:

1. Authorize the General Manager to execute a Third Amendment to the Agreement for Sale of Reclaimed Water with the City of Del Mar and 22nd District Agricultural Association by the San Elijo Joint Powers Authority;
2. Discuss and take action as appropriate.

BACKGROUND

The San Elijo Joint Powers Authority (SEJPA) operates a recycled water utility that sells recycled water to four water purveyors; Santa Fe Irrigation District, San Dieguito Water District, Olivenhain Municipal Water District, and the City of Del Mar/22nd District Agricultural Association (22DAA); and also has an interruptible service agreement directly with the Encinitas Ranch Golf Authority. The purveyors then sell the recycled water to end customers.

SEJPA owns most of the recycled water infrastructure system including treatment, storage, and pipelines. The water districts generally own only the recycled water meter that measures the customer's usage and provide customer billing and other needed administrative services. SEJPA works collaboratively with the water purveyors to provide seamless utility and customer service, as well as to meet regulatory quality control and oversight requirements.

SEJPA has individual wholesale water agreements with each water purveyor that includes pricing structure, water quality, and minimum purchase volume. The purpose of the minimum purchase volume is to provide SEJPA a guaranteed "fixed" minimum revenue stream for operational and capital needs. This provides revenue certainty for the program, improving the bonding capacity and credit rating of SEJPA. This revenue structure has been successful for meeting revenue requirements of the program at the lowest possible cost for the customers.

DISCUSSION

During the last fiscal year (FY 2021-22), 22DAA did not meet its minimum purchase volume of 85 acre-feet (AF) as they encountered operational issues that limited usage to 75 AF. Staff from SEJPA and 22DAA discussed the option of providing 22DAA another year to use the

approximately 10 AF that was not used in FY 2021-22. This would require 22DAA to use 95 AF in FY 2022-23. In reviewing the last nine years of recycled water usage by 22DAA, the average annual use is 109 AF with the median use of 111 AF, which is well above last year's usage. For this fiscal year, 22DAA has used 32 AF in three months and they are on track to use 100 AF by year end.

SEJPA staff recommends providing 22DAA another year to capture their minimum purchase volume. Financially, SEJPA reached its budget goals for recycled water sales and revenues in FY 2021-22, which diminishes the need to exercise the minimum purchase requirement. Furthermore, 22DAA has retained SEJPA to operate its Wetlands Treatment System which will likely minimize further operational issues that limited recycled water use.

Staff has prepared the Third Amendment to the Agreement for Sale of Reclaimed Water to the City of Del Mar and the 22nd District Agricultural Association by the San Elijo Joint Powers Authority for Board consideration.

FINANCIAL IMPACT

The financial impact of not collecting the minimum purchase volume is approximately \$17,035. However, SEJPA achieved and slightly exceeded its recycled water sales and revenue goals for FY 2021-22, thus allowing 22DAA to assign the 10 AF to FY 2022-23 without budget impacts.

It is therefore recommended that the Board of Directors:

1. Authorize the General Manager to execute a Third Amendment to the Agreement for Sale of Reclaimed Water to the City of Del Mar and the 22nd District Agricultural Association by the San Elijo Joint Powers Authority;
2. Discuss and take action as appropriate.

Respectfully submitted,



Michael T. Thornton, P.E.
General Manager

Attachment 1: Third Amendment to Reclaimed Water Sales Agreement between the San Elijo Joint Powers Authority, City of Del Mar, and the 22nd District Agricultural Association

ATTACHMENT 1

THIRD AMENDMENT TO THE RECLAIMED WATER SALES AGREEMENT BETWEEN THE SAN ELIJO JOINT POWERS AUTHORITY, THE CITY OF DEL MAR, AND THE 22ND DISTRICT AGRICULTURAL ASSOCIATION

This Third Amendment to the Agreement for Sale of Reclaimed Water, hereinafter referred to as the “**Third Amendment**,” is made and entered into as of this _____ day of October, 2022, by and between San Elijo Joint Powers Authority (San Elijo JPA), an agency of the State of California, the City of Del Mar (CITY), a municipal corporation and the 22nd District Agricultural Association (DISTRICT), an agency of the State of California.

RECITALS

WHEREAS, the San Elijo JPA and the Reclaimed Water Purveyor have entered into an agreement dated November 5, 1997, with a first amendment dated December 22, 2014 (“**First Amendment**”), and a second amendment dated July 1, 2020 (“**Second Amendment**”), for the sale of reclaimed water by the San Elijo JPA to the Reclaimed Water Purveyor, hereinafter referred to as the “**Purveyor Agreement**”; and

WHEREAS, the parties are interested in adjusting the minimum annual reclaimed water commitments the Reclaimed Water Purveyor is required to purchase, pursuant to the Purveyor Agreement, as most recently amended by the Second Amendment.

AGREEMENT

NOW, THEREFORE, for good and valuable consideration, and in consideration of the recitals and the mutual covenants contained herein, and notwithstanding anything to the contrary in the Purveyor Agreement, the San Elijo JPA and Reclaimed Water Purveyor hereby agree as follows:

1. The provisions of this Third Amendment shall apply to the sale of reclaimed water by the San Elijo JPA to the Reclaimed Water Purveyor commencing July 1, 2021, through June 30, 2023, as provided herein unless terminated as provided in the Purveyor Agreement or otherwise amended by the parties.
2. For the term of this Third Amendment, the San Elijo JPA agrees to supply, and Reclaimed Water Purveyor agrees to purchase from the San Elijo JPA no less than a cumulative one hundred seventy (170) acre-feet (“**AF**”) of reclaimed water during the combined Fiscal Year 2021-22 through Fiscal Year 2022-23 at the applicable water rate set forth by the Second Amendment. In the event Reclaimed Water Purveyor fails to accept the minimum 170 AF in this two-year time frame, Reclaimed Water Purveyor agrees to pay for the difference between the AF accepted by the Reclaimed Water Purveyor during the two-year period and the minimum 170 AF at the applicable reclaimed water rate stated in the Second Amendment.

3. Beginning July 1, 2023, the minimum annual reclaimed water commitment shall revert to an annual requirement of eighty-five (85) AF. In other words, the Reclaimed Water Purveyor agrees to purchase from the San Elijo JPA no less than 85 AF of reclaimed water annually from July 1 through June 30 from year to year on the same terms and conditions as provided in the Purveyor Agreement, as amended, or as otherwise amended by the parties. In the event Reclaimed Water Purveyor fails to accept the minimum 85 AF per year, Reclaimed Water Purveyor agrees to pay for the difference between the AF accepted by the Reclaimed Water Purveyor during the fiscal year and the minimum 85 AF at the applicable reclaimed water rate set forth by the Purveyor Agreement, as amended.

Except as expressly stated and amended herein, the remaining terms and conditions of the Purveyor Agreement, as amended, shall remain in full force and effect. If any provision of the Purveyor Agreement, the First Amendment, or the Second Amendment directly conflicts with a provision in this Third Amendment, the terms of this Third Amendment shall control. The expiration of the provisions of this Third Amendment shall not affect the term of the Purveyor Agreement. Upon expiration of the provisions of this Third Amendment, and unless the parties execute a written agreement otherwise, the terms of the Purveyor Agreement, including any other duly executed amendment thereto which has not expired, shall apply.

IN WITNESS WHEREOF, the parties hereto have caused this Third Amendment to be executed and be effective on the date first mentioned above.

**SAN ELIJO
JOINT POWERS AUTHORITY**

CITY OF DEL MAR

By: _____

By: _____

Name: _____

Name: _____

Its: _____

Its: _____

22nd District Agricultural District

By: _____

Name: _____

Its: _____