



AGENDA
REGULAR MEETING OF THE BOARD OF DIRECTORS
WEDNESDAY, FEBRUARY 16, 2022 – 3:30 PM

NOTICE TO THE PUBLIC

In response to the evolving COVID-19 pandemic and pursuant to amendments to the Brown Act permitting virtual meetings and waiving certain teleconference requirements under certain circumstances, this meeting is being conducted online via GoToWebinar and by teleconference; there will be no physical location from which members of the public may participate.

Register to watch the webinar via the link below:

<https://attendee.gotowebinar.com/register/4394944110070806795>

Webinar ID: 928-111-003

After registering, you will receive a confirmation with a link to join the webinar.

To listen via teleconference dial:

+1 (415) 930-5321

Access Code: 513-717-479#

Enter # for audio pin

PUBLIC COMMENT INSTRUCTIONS

Members of the public may address the Board on any item on the agenda when the item is considered, or under “Opportunity for Public Comment” regarding items not on the posted agenda that are within the subject matter jurisdiction of the Board, by following the instructions below:

1. Live public comments: Register for the webinar and click the hand raise icon within the meeting platform. Speakers will be called on to unmute themselves when it is their turn to speak.
2. Written public comments: Written comments may be submitted in writing through the [public comment e-form](#) at least a half hour prior to the start of the meeting or mailed to the attention of Amy Pederson, Padre Dam, PO Box 719003, Santee, CA 92072.

Public comments are limited to 3 minutes.

The complete agenda package is available for public review at www.PadreDam.org. No action may be taken on any item not appearing on the posted agenda, except as provided by Gov. Code Section 54954.2. Any written materials provided to the Board within 72 hours of the meeting regarding any item on this agenda will be available for public inspection on the District’s website. For questions or request for information related to this agenda contact Amy Pederson, Board Secretary, at 619.258.4614 or apederson@padre.org.

Upon request, this agenda will be made available in appropriate alternative formats to persons with disabilities, as required by Section 202 of the American with Disabilities Act of 1990. Any person with a disability who requires a modification or accommodation in order to participate in a meeting should contact our ADA Coordinator: Larry Costello at 619.258.4678 or lcostello@padre.org.

AGENDA

- **CALL TO ORDER**

- **PLEDGE OF ALLEGIANCE**

- **OPPORTUNITY FOR PUBLIC COMMENT**

Opportunity for members of the public to address the Board regarding items not appearing on this agenda and are within the jurisdiction of the Board (Gov. Code 54954.3)

- **ITEMS TO BE ADDED, WITHDRAWN OR REORDERED ON THE AGENDA**

- 1. APPROVAL OF MINUTES**

Recommendation:

Approve the minutes of the February 2, 2022 Regular Board Meeting.

- **CONSENT AGENDA**

Items are considered to be routine and will be acted upon by a single motion without discussion, unless a Board Member, staff, or the public request a specific item be removed from the consent agenda for discussion.

- 2. DEMAND PAYMENTS**

Recommendation:

Approve Payments from January 5, 2022 to January 27, 2022.

- 3. DIRECTORS COMPENSATION AND EXPENSE CLAIMS**

Recommendation:

Approve claims and authorize payments.

- 4. GENERAL MANAGER'S EXPENSE CLAIM**

Recommendation:

Approve claim and authorize payment.

- 5. AUTHORIZATION FOR REMOTE TELECONFERENCE PUBLIC MEETINGS IN ACCORDANCE WITH ASSEMBLY BILL 361**

Recommendation:

Make findings that the Governor's Proclamation of a State of Emergency remains in effect, state and local officials continue to impose or recommend social distancing due to an increase in COVID cases, and authorize remote teleconference meetings for Padre Dam's legislative bodies pursuant to Brown Act provisions enacted by AB 361.

6. CONSIDERATION OF RESOLUTION SUPPORTING THE CITY OF SANTEE'S RESOLUTION OF APPLICATION REQUESTING THAT THE LOCAL AGENCY FORMATION COMMISSION (LAFCO) OF THE COUNTY OF SAN DIEGO INITIATE PROCEEDINGS FOR THE WESTON BOUNDARY CLEANUP REORGANIZATION

Recommendation:

Adopt a Resolution Supporting the City of Santee's Resolution of Application Requesting that LAFCO Initiate Proceedings for the Weston Boundary Cleanup Reorganization ("Resolution of Support").

7. WATERSMART TITLE XVI WATER RECLAMATION AND REUSE PROJECTS GRANT

Recommendation:

Adopt Resolution authorizing staff to submit an application for the Watersmart Title XVI Water Reclamation and Reuse Projects Grant (WIIN).

8. RECYCLED WATER DISTRIBUTION SYSTEM MODIFICATIONS

Recommendation:

Authorize the CEO/General Manager, or his designee, to utilize the Recycled Water Reserve Fund to pay for modifications to the recycled water distribution system. The total forecasted expenditures associated with the work is \$150,000.

● **ACTION AGENDA**

Items on the Action Agenda call for discussion and action by the Board. All items are placed on the Agenda so that the Board may discuss and take action on the item if the Board is so inclined.

9. UPDATE ON FALLBROOK PUD AND RAINBOW MWD PROPOSED DETACHMENT FROM COUNTY WATER AUTHORITY

Recommendation:

Hear update from Fallbrook General Manager, Jack Bebee, regarding the proposed detachment; no action required.

10. PUBLIC HEARING ON REDISTRICTING OPTIONS FOR PADRE DAM'S VOTER DIVISION BOUNDARIES

Recommendation:

1. Hear staff report on two redistricting options developed for public input.
2. Open public hearing to receive comments on the proposed redistricting options; close public hearing. No action is required at this meeting; a second public hearing is scheduled for March 16, 2022.

11. COST OF SERVICE STUDY UPDATE

Recommendation:

Hear Project update from John Wright of Raftelis; no action required.

12. CONSIDERATION OF SETTING A NEW TIME FOR HOLDING REGULAR MEETINGS OF THE BOARD OF DIRECTORS

Recommendation:

Consider changing the start time of the Board's regular meetings to a later time; action is at the discretion of the Board.

13. SEMI-ANNUAL REPORT ON THE FIVE YEAR BUSINESS PLAN, FOR THE SIX MONTHS ENDED 12/31/21

Recommendation:

Hear a report on the financial highlights for the first half of FY '22; no action required.

14. LEGISLATIVE UPDATE

Recommendation:

Hear staff report; no action required.

● **REPORTS**

The following items are reports and are placed on the Agenda to provide information to the Board and the public. There is no action called for on these items. The Board may engage in discussion upon which a specific subject matter is identified but may not take any action other than to place the matter on a future agenda.

15. BOARD REPORTS

- A. County Water Authority (CWA) Board of Directors Meeting
- B. Metro Commission/Metro Wastewater JPA
- C. Santee Chamber of Commerce Governmental Affairs Committee Meeting
- D. East County Economic Development Council
- E. Other meetings/conferences/events attended by Directors per AB1234
(Council of Water Utilities, CSDA San Diego Chapter, etc.)

● **DIRECTORS COMMENTS**

Directors' comments are to be related to District business which may be of interest to the Board. They are placed on the agenda to enable individual Board Members to convey information to the Board and the Public. There is to be no discussion or action taken on comments made by Board Members.

16. DISTRICT COUNSEL'S REPORT

17. GENERAL MANAGER'S REPORT


18. INFORMATIONAL REPORTS

- A. Monthly Delinquency Report - January 2022

● **ADJOURNMENT**

CERTIFICATION OF POSTING

I certify that on February 11, 2022 I posted a copy of the foregoing agenda near the regular meeting place of the Board of Directors of Padre Dam Municipal Water District, said time being at least 72 hours prior to the meeting, in accordance with Gov. Code Section 54954.2(a).


Amy Pederson, Board Secretary

February 2022

February 2022							March 2022						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
6	7	1	2	3	4	5	6	7	1	2	3	4	5
13	14	8	9	10	11	12	13	14	8	9	10	11	12
20	21	15	16	17	18	19	20	21	15	16	17	18	19
27	28	22	23	24	25	26	27	28	22	23	24	25	26

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Jan 31	Feb 1 7:30am San Diego East County Chamber's Government Affairs Committee meetings	2 3:30pm Board Meeting	3 12:00pm Metro Commission/JPA	4
7 8:30am Government Affairs Committee Meeting	8	9	10 1:30pm CWA Special Board Meeting	11
14	15	16 7:30am East County Economic Development Council 3:30pm Board Meeting	17 7:30am Santee Chamber Board Mtg 2:00pm AWP JPA Regular Board 6:00pm CSDA Quarterly Meeting	18
21 Office Closed (Presidents' Day)	22	23 3:30pm Park Committee	24 9:00am CWA Board Mtg	25
28 1:30pm Facilities Dev. & Ops Committee	Mar 1	2	3	4

March 2022

March 2022							April 2022						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
6	7	1	2	3	4	5	3	4	5	6	7	1	2
13	14	8	9	10	11	12	10	11	12	13	14	15	16
20	21	15	16	17	18	19	17	18	19	20	21	22	23
27	28	22	23	24	25	26	24	25	26	27	28	29	30

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Feb 28	Mar 1 7:30am San Diego East County Chamber's Government Affairs Committee meetings	2 3:30pm Board Meeting	3 12:00pm Metro Commission/JPA	4
7	8	9	10 1:30pm CWA Special Board Meeting	11
14	15 8:00am COWU	16 7:30am East County Economic Development Council 3:30pm Board Meeting	17 7:30am Santee Chamber Board Mtg	18
21 8:30am Chamber Governmental Affairs Committee	22	23 3:30pm Park Committee	24 9:00am CWA Board Mtg	25
28 1:30pm Finance & Admin Committee	29	30	31	Apr 1

April 2022

April 2022							May 2022						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
3	4	5	6	7	8	9	1	2	3	4	5	6	7
10	11	12	13	14	15	16	8	9	10	11	12	13	14
17	18	19	20	21	22	23	15	16	17	18	19	20	21
24	25	26	27	28	29	30	22	23	24	25	26	27	28
							29	30	31				

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Mar 28	29	30	31	Apr 1
4	5 7:30am San Diego East County Chamber's Government Affairs Committee meetings	6 3:30pm Board Meeting	7 12:00pm Metro Commission/JPA	8
11	12	13	14 1:30pm CWA Special Board Meeting	15
18 8:30am Chamber Governmental Affairs Committee - AGENDA	19	20 7:30am East County Economic Development Council 3:30pm Board Meeting	21 7:30am Santee Chamber Board Mtg	22
25 1:30pm Security Committee	26	27 3:30pm Park Committee	28 9:00am CWA Board Mtg	29

May 2022

May 2022							June 2022						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7				1	2	3	4
8	9	10	11	12	13	14		5	6	7	8	9	10
15	16	17	18	19	20	21	12	13	14	15	16	17	18
22	23	24	25	26	27	28	19	20	21	22	23	24	25
29	30	31					26	27	28	29	30		

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
May 2	3 7:30am San Diego East County Chamber's Government Affairs Committee meetings	4 3:30pm Board Meeting	5 12:00pm Metro Commission/JPA	6
9	10	11	12 1:30pm CWA Special Board Meeting	13
16 8:30am Chamber Governmental Affairs Committee - AGENDA	17 8:00am COWU - AGENDA	18 7:30am East County Economic Development Council - 3:30pm Board Meeting	19 7:30am Santee Chamber Board Mtg 2:00pm AWP JPA Regular Board Meeting 6:00pm CSDA Quarterly Meeting	20
23 1:30pm Facilities Dev. & Ops Committee	24	25 3:30pm Park Committee	26 9:00am CWA Board Mtg	27
30 Office Closed (Memorial Day) -	31	Jun 1	2	3

**MINUTES OF THE REGULAR MEETING
OF THE BOARD OF DIRECTORS OF PADRE DAM
MUNICIPAL WATER DISTRICT HELD ON
WEDNESDAY, FEBRUARY 2, 2022**

The regular meeting of the Board of Directors of Padre Dam Municipal Water District was held on Wednesday, February 2, 2022, electronically pursuant to amendments to the Brown Act permitting virtual meetings and waiving certain teleconference requirements under certain circumstances.

President Pommering called the meeting to order at 3:30 pm and read a statement explaining as a result to COVID-19 State of Emergency all Board Members are participating by videoconference and members of the public were invited to watch the online video conference or listen telephonically. Notice was also provided that members of the public could participate in live public comment through the meeting platform or submit written comments through the Public Comment E-Form available on the District's website to be read during the meeting at the appropriate time.

Amy Pederson, Board Secretary, confirmed each Board member had a clear audio connection and conducted roll call. Directors present: Peasley, Pommering, and Wilson

Directors absent: Caires and Till (arrived at 3:41 pm)

Staff members present: Allen Carlisle, CEO/General Manager; Kyle Swanson, Assistant General Manager; Mark Niemiec, Director of AWP; Karen Jassoy, CFO/Director of Finance; Lisa Sorce, Director of Human Resources & Administrative Services; Paul Clarke, Director of Operations & Water Quality; Laura Koval, Director of Park & Recreation; Dennis Lamb, Interim Director of Engineering; Amy Pederson, Board Secretary; Nicholas Norvell, District Counsel; Melissa McChesney, Communications Manager; Rebecca Abbott, AWP Engineering Manager; Adrienne Borden, Senior Accountant; Benjamin Brugman, Accounting Specialist; Tom Martin, Engineering Technician; Rob Northcote, Plant Manager; Casey Price, Administrative Assistant; James Vargas, Operations Manager; Ernie Green, Information Systems Technical Specialist

Visitors present: John Wright, Raftelis Financial Consultants; Philip Waterman, Southern Contracting; Toby Espinola

OPPORTUNITY FOR PUBLIC COMMENT

There were no public comments.

ITEMS TO BE ADDED, WITHDRAWN, OR REORDERED ON THE AGENDA

There were no items to be added, withdrawn, or reordered at this time.

1. APPROVAL OF MINUTES

On motion of Director Wilson, seconded by Director Peasley, and unanimously carried by roll call vote, with Directors Caires and Till absent, the minutes of the January 19, 2022 Regular Board Meeting were approved as submitted.

- **CONSENT AGENDA**

Items are considered to be routine and will be acted upon by a single motion without discussion, unless a Board Member, staff, or the public request a specific item be removed from the consent agenda for discussion.

On motion of Director Peasley, seconded by Director Wilson, and unanimously carried by roll call vote with Directors Caries and Till absent, consent item 2 was approved as submitted.

2. CAPITALIZATION OF CONTRIBUTED ASSETS

The Board accepted the Contributed Assets report and adopted Resolution 2022-05 authorizing the amount indicated to be added to the appropriate accounting records.

- **ACTION AGENDA**

Items on the Action Agenda call for discussion and action by the Board. All items are placed on the Agenda so that the Board may discuss and take action on the item if the Board is so inclined.

3. AWARD OF CONSTRUCTION CONTRACT – PUMP STATION IMPROVEMENTS PROJECT PHASE 1 (JN 219004)

Wilson Lau, Engineer, reviewed a service area map showing the location of the pump station improvements and discussed the electrical improvements required at each pump station noting this is one of the first major electrical improvements made for the pump stations. He reviewed the bid strategy for the Base Bid which includes three pump stations and the Alternative Bid which includes an additional three pump stations. He noted the apparent low bidder, Anderson & Howard Electric, Inc., provided a bid for all six pump stations which was within the District's budget however, the bid did not include the required Class A license outlined in the bid documents; after confirming with Legal Counsel that the District cannot deviate from the Class A license requirement, the bid was determined non-responsive. He reported the bid from Southern Contracting Company was found to be responsive and provided background on the company. He reviewed the funding plan for all six pump station improvements which includes the current budgeted amount of \$2.39 million and an additional \$2 million which can be obtained by deferring the Jerry Johnson Reservoir and Pipelines at Bridge Crossing projects to the next Five Year Business Plan. In closing, he reviewed construction support services and timeline of next steps for the project, with completion anticipated on March 2, 2024

Note: Director Till arrived at 3:41 pm.

Responding to Director Wilson, Michael Hindle, Engineering Manager stated that both the Jerry Johnson Reservoir and Pipelines at Bridge Crossing projects are still moving forward in the design phase and moving the funding to the Pump Station Improvements project will be a better use of Capital Improvement Program funding at this time.

On motion of Director Peasley, seconded by Director Wilson, and carried by roll call vote, with Director Till abstaining due to late arrival and Director Caires absent, the Board approved the following:

1. Approved the funding plan described in the agenda packet in order to fund the construction of the Base Bid and Alternate Bid items for the Pump Station Improvements Project.
2. Rejected the bid received from Anderson & Howard Electric, Inc. as non-responsive.
3. Awarded the construction contract to the lowest responsible bidder submitting a responsive bid, Southern Contracting Company, Inc. at a not to exceed cost of \$3,107,173, and authorize the CEO/General Manager or his designee to modify the contract amount up to 5 percent (\$155,359) for unforeseen construction changes.
4. Authorized the CEO/General Manager or his designee to award the construction support services contracts required for the successful completion of the project, as described in the summary, for a total not to exceed amount of \$366,600 plus 10 percent contingency (\$36,660).

4. COST OF SERVICE STUDY UPDATE

Karen Jassoy, Director of Finance, introduced John Wright from Raftelis Financial Consultants, Inc.

John Wright reviewed the project tasks and key objectives of the cost of service study noting the overall objective is determining proposed rates for the District within the next five year business plan. He explained the long range financial planning process will review the next 10 years and will encompass the Advanced Water Purification (AWP) Program's impact on the District's financials. He outlined the critical steps and analysis for the study as well as rate design considerations such as: conservation, financial, affordability, equity, and administration and components taken into account for each consideration. He reviewed key requirements of Proposition 218 (Prop 218) and the status of key objectives for the project.

Karen Jassoy, reviewed the current project schedule highlighting additional dates added noting most of the timeline is driven by the date the rates need to be conceptually agreed upon to include in the Prop 218 notice required to be mailed to property owners and customers 45 days prior the public hearing for rates. In closing, she complimented Raftelis Financial Consultants staff for their work on this project.

Mr. Wright complimented District staff on hard work making it possible to meet the schedule deadlines.

Director Wilson complimented Mr. Wright on his presentation.

A brief question and answer period followed in which Ms. Jassoy clarified that the current study will determine rates for the next Five Year Business Plan and the Long Range Financial Plan will account for the AWP program coming online.

Mr. Wright also clarified the financial planning models developed for the District have the ability to modify the demand forecast in order to account for slight decline of demand projection for year to year usage and reviewed the cost justification requirements for each of the 3 rate tiers.

Informational report only; no action required.

5. APPOINTMENT OF BOARD COMMITTEES AND REPRESENTATIVES FOR OUTSIDE ORGANIZATIONS

President Pommering opened the assignments for discussion from the Board.

Director Till expressed concern with the District being a member of the Chambers since they endorse candidates. She suggested the District consider becoming involved with agencies involved with groundwater, such as the San Diego River Park Conservancy and San Diego River Foundation.

President Pommering noted this agenda item for assigning Board members to current committees and organizations the District has memberships with, not adding to or removing existing memberships.

On motion of Director Peasley, seconded by Director Wilson, and carried by roll call vote, with Director Till voting no and Director Caires absent, the Board approved the 2022 Board appointments proposed by President Pommering as shown in Agenda Packet.

6. WATER SUPPLY UPDATE

Melissa McChesney, Communications Manager, reviewed local and state conditions, highlighting December snowfall reached 214 inches which broke the record set in 1970. She shared snow survey results showing a statewide snow decrease from 202 percent in January to 92 percent in February which caused statewide mandatory water restrictions to be imposed. She reported the state's water reservoir conditions are improving and Lake Oroville was able to turn their power plant back on. In closing, she noted the Colorado River Basin conditions are trending on average for precipitation and snow water equivalent, and the Bureau of Water Reclamation has modified releases from Lake Powell in order to maintain water levels.

Directors thanked Ms. McChesney for her report.

Informational report only; no action required.

7. DISTRICT ANNUAL REPORT FOR FISCAL YEAR 2021

Melissa McChesney, Communications Manager, highlighted key aspects of the annual report, noting that the online version contains links and videos and reviewed the 2021 Year at a Glance which highlights core services and showcases employees throughout the District. She reviewed key accomplishments and objectives for the District in the areas of Value of Water & Customer Outreach, Infrastructure, CIP Accomplishments for 2021, Investing in Infrastructure, and Santee Lakes as well as a breakdown of the water and sewer bill and audited financials for the District.

Directors congratulated Ms. McChesney on a phenomenal job creating the Annual Report.

Informational report only; no action required.

● REPORTS

The following items are reports and are placed on the Agenda to provide information to the Board and the public. There is no action called for on these items. The Board may engage in discussion upon which a specific subject matter is identified but may not take any action other than to place the matter on a future agenda.

8. BOARD REPORTS

- A. County Water Authority (CWA) Board of Directors Meeting
President Pommering and Director Wilson offered to answer any questions to their written reports.
- B. Metro Commission/Metro Wastewater JPA
Director Peasley noted tomorrow is the first meeting of 2022 and the Ad Hoc committee members will be announced at that meeting. He stated that the General Manager has established briefings for himself and Director Caires in order to be better prepared for the Metro Commission meetings.
- C. Santee Chamber of Commerce Board Meeting
Director Peasley offered to answer any questions to his written report and noted that the Chamber has new leadership and is moving in a positive direction.
- D. San Diego East County Chamber of Commerce Government Affairs & Infrastructure Land Use Committee
Director Pommering offered to answer any questions to his written report.
- E. Other meetings/conferences/events attended by Directors per AB1234
(Council of Water Utilities, CSDA San Diego Chapter, etc.)
None

• DIRECTORS COMMENTS

Directors' comments are to be related to District business which may be of interest to the Board. They are placed on the agenda to enable individual Board Members to convey information to the Board and the Public. There is to be no discussion or action taken on comments made by Board Members.

Director Till advised the Board that she is not arriving on time to meetings due to the school's requirements for teachers to be on campus until 3:00 pm and requested the Board consider starting at a later time to allow adequate time to arrive and vote on agenda items.

A brief discussion followed regarding potential start time and Legal Counsel advised the Board that if there is a desire to discuss further and consider possible action, then the topic will need to be added to a future agenda.

9. DISTRICT COUNSEL'S REPORT

Nicholaus Norvell reminded the Board of the April 1, 2022 deadline for submitting their Statement of Economic Interests, Form 700 for 2021.

10. GENERAL MANAGER'S REPORT

Allen Carlisle reminded the Board that we are still in COVID protocols and will be meeting next week to reassess and will advise the Board of any changes.

11. INFORMATIONAL REPORTS

A. Finance and Treasurer's Report for the six months ended December 31, 2021

- **ADJOURNMENT**

President Pommering declared the meeting adjourned at 5:01 pm.

Board President

ATTEST:

Board Secretary



BOARD AGENDA REPORT

Meeting Date: 02-16-2022
Dept. Head: Karen Jassoy
Submitted by: Melanie Schott
Department: Finance
Approved by: Allen Carlisle, CEO/GM

SUBJECT: DEMAND PAYMENTS

RECOMMENDATION(S):

Approve Payments from January 5, 2022 to January 27, 2022.

ALTERNATIVE(S):

n/a

ATTACHMENT(S):

1. Demand Payments

FUNDING:

Requested amount: \$2,119,639.19
Budgeted amount: \$2,119,639.19
Are funds available? ☒ Yes ☐ No
Project cost to date: N/A

PRIOR BOARD/COMMITTEE CONSIDERATION:

STRATEGIC PLAN IMPLEMENTATION:

This agenda item is consistent with the District's Strategic Plan and meets one or more of the following Strategic Goals: Provide safe, reliable water, recycled water and sewer services; Ensure fiscal health and competitively sustainable rates; Enhance customer communications and education; Increase water, wastewater and energy independence; Maintain workforce excellence; Expand park and recreation opportunities.

Reviewed by:		Action Required:		Policy Updates:		Action Taken:
Dept Head	<input checked="" type="checkbox"/>	Motion	<input checked="" type="checkbox"/>	Rules & Regulations	<input type="checkbox"/>	As Recommended _____
Finance	<input checked="" type="checkbox"/>	Resolution	<input type="checkbox"/>	Standard Practices	<input type="checkbox"/>	Reso/Ord. No. _____
Legal Counsel	<input type="checkbox"/>	Ordinance	<input type="checkbox"/>	& Policies		Other _____
Standard Form	<input checked="" type="checkbox"/>	None	<input type="checkbox"/>			

PADRE DAM MUNICIPAL WATER DISTRICT
REGISTER OF DEMAND PAYMENTS
1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total
1/5/2022	95001636	CB&T-CREDIT CARDS	69657	CC SORCE 12/17/21	4,531.11
	95001636 Total				4,531.11
	95001637	CB&T-CREDIT CARDS	69658	CC SWANSON 12/17/21	1,167.21
	95001637 Total				1,167.21
	95001638	CB&T-CREDIT CARDS	69659	CC NIEMIEC 12/17/21	201.24
	95001638 Total				201.24
	95001639	CB&T-CREDIT CARDS	69660	CC COSTELLO 12/17/21	2,396.08
	95001639 Total				2,396.08
	95001640	CB&T-CREDIT CARDS	69663	CC PEDERSON 12/17/21	3,146.28
	95001640 Total				3,146.28
	95001641	CB&T-CREDIT CARDS	69673	CC TARANTINO 12/17/21	209.00
	95001641 Total				209.00
	95001642	CB&T-CREDIT CARDS	69674	CC KOVAL 12/17/21	1,077.45
	95001642 Total				1,077.45
	95001643	CB&T-CREDIT CARDS	69675	CC CARLISLE 12/17/21	456.17
	95001643 Total				456.17
	95001644	CB&T-CREDIT CARDS	69676	CC YBARRA 12/17/21	1,128.72
	95001644 Total				1,128.72
	95001645	CB&T-CREDIT CARDS	69677	CC MONTEITH 12/17/21	939.17
	95001645 Total				939.17
	95001646	CB&T-CREDIT CARDS	69678	CC HAGUE 12/17/21	2,836.99
	95001646 Total				2,836.99
	95001647	CB&T-CREDIT CARDS	69679	CC KADING 12/17/21	386.76
	95001647 Total				386.76
	95001648	CB&T-CREDIT CARDS	69680	CC CLARKE 12/17/21	1,468.10
	95001648 Total				1,468.10
	95001649	CB&T-CREDIT CARDS	69681	CC VARGAS 12/17/21	73.10
	95001649 Total				73.10
	95001650	CB&T-CREDIT CARDS	69682	CC SOUTHWICK 12/17/21	958.41
	95001650 Total				958.41
	95001651	CB&T-CREDIT CARDS	69683	JASSOY 12/17/21	1,766.06
	95001651 Total				1,766.06
	95001652	CB&T-CREDIT CARDS	69684	CC MCCHESNEY 12/17/21	758.55
	95001652 Total				758.55
1/5/2022 Total					23,500.40
1/13/2022	151706	A PLUS WINDOW CLEANI	69565	Cleaning ext/int windows Admin/General Store	370.00
	151706 Total				370.00
	151707	A&B SAW & LAWNMOWER	69662	Small Engine Parts, Fuel	325.08
151707 Total					325.08

PADRE DAM MUNICIPAL WATER DISTRICT

REGISTER OF DEMAND PAYMENTS

1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total
1/13/2022	151708	ACE UNIFORMS	69544	STAFF UNIFORMS	51.86
	151708 Total				51.86
	151709	AGRICULTURAL PEST CO	69542	Blanket pest control Park	300.00
			69543	Blanket pest control Park	60.00
	151709 Total				360.00
	151710	AMAZON CAPITAL SERV	69556	RETURN MOEN DECK PLATE	(24.61)
			69574	SCREEN PROTECTORS	38.76
			69598	BATTERIES	16.47
			69607	WALL CALENDAR	19.11
			69609	2022 WALL CALENDARS	23.80
			69624	AIR PUMP	177.24
			69625	WALL CALENDAR	24.19
			69626	WALL CALENDAR	20.14
			69655	STEEL PAPER TOWEL STANDS	51.68
			69656	FOLDING FLOOR SIGNS	86.10
	151710 Total				432.88
	151711	AMERICAN CONSERVATIO	69588	AquaHawk Alerting.	2,500.00
	151711 Total				2,500.00
	151712	AQUA-METRIC	69511	METERS FOR MMP ALL SIZES	137,350.01
	151712 Total				137,350.01
	151713	ASAP SECURITY	69689	Annual security patrol service	4,500.00
	151713 Total				4,500.00
	151714	ASPHALT & CONCRETE	69539	Asphalt Replacement - Contract Work	43,125.00
	151714 Total				43,125.00
	151715	AUTOMATIONDIRECT.COM	69627	ULTRASONIC LEVEL SENSOR	971.91
	151715 Total				971.91
	151716	BADGER METER	69555	BEACON SERVICES DECEMBER 2021	225.00
	151716 Total				225.00
	151717	BRADY INDUSTRIES OF	69540	bathroom products for cabin and Park	340.79
	151717 Total				340.79
	151718	BREWER CRANE	69628	23 TON BOOM TRUCK RENTAL	912.17
	151718 Total				912.17
	151719	CALIFORNIA WATER EFF	69561	CalWEP Dues for 2022	2,026.47
	151719 Total				2,026.47
	151720	CAMPLIFE, INC.	69571	Camplife Fees	2,451.50
	151720 Total				2,451.50
	151721	CANNON PACIFIC SRVS	69553	MONTHLY SWEEPING	383.37
	151721 Total				383.37
	151722	CARQUEST AUTO PARTS	69667	AIR FILTERS	35.35

PADRE DAM MUNICIPAL WATER DISTRICT
REGISTER OF DEMAND PAYMENTS
1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total
1/13/2022	151722	CARQUEST AUTO PARTS	69668	OIL	63.12
			69669	LUBE & FUEL FILTERS	71.40
	151722 Total				169.87
	151723	CINTAS - (UNIFORMS)	69564	Towel and mat annual service	264.69
	151723 Total				264.69
	151724	CITY OF SANTEE-BUS	69570	TOT 10.1.21 - 12.31.21	55,289.55
	151724 Total				55,289.55
	151725	COMMUNICATIONS STRAT	69518	Phone System Replacement Consulting Services	3,330.00
			69519	Phone System Replacement Consulting Services	4,440.00
	151725 Total				7,770.00
	151726	CORE & MAIN LP	69522	16" Hymax Couplings for Mesa/Prospect	1,299.30
			69523	16" Hymax Couplings for Mesa/Prospect	1,299.30
	151726 Total				2,598.60
	151727	CORELOGIC SOLUTIONS,	69632	Software Maintenance - CoreLog	231.86
	151727 Total				231.86
	151728	CUST SERVICE REFUNDS	69709	CUSTOMER SERVICE REFUND	1,859.44
	151728 Total				1,859.44
	151729	CUST SERVICE REFUNDS	69713	CUSTOMER SERVICE REFUND	66.96
	151729 Total				66.96
	151730	CUST SERVICE REFUNDS	69708	CUSTOMER SERVICE REFUND	876.20
	151730 Total				876.20
	151731	CUST SERVICE REFUNDS	69707	CUSTOMER SERVICE REFUND	1,748.50
	151731 Total				1,748.50
	151732	CUST SERVICE REFUNDS	69710	CUSTOMER SERVICE REFUND	198.84
	151732 Total				198.84
	151733	CUST SERVICE REFUNDS	69706	CUSTOMER SERVICE REFUND	201.17
	151733 Total				201.17
	151734	CUST SERVICE REFUNDS	69712	CUSTOMER SERVICE REFUND	201.62
	151734 Total				201.62
	151735	CUST SERVICE REFUNDS	69692	CUSTOMER SERVICE REFUND	272.77
	151735 Total				272.77
	151736	CUST SERVICE REFUNDS	69711	CUSTOMER SERVICE REFUND	304.44
	151736 Total				304.44
	151737	CUST SERVICE REFUNDS	69645	CUSTOMER SERVICE REFUND	139.66
	151737 Total				139.66
	151738	CWEA - CERT RENEWAL	69690	CERT RENEWALS - SARAH HARGIS	182.00
	151738 Total				182.00
	151739	D&H WATER SYSTEMS	69558	ACETATE BUFFER	593.76
	151739 Total				593.76

PADRE DAM MUNICIPAL WATER DISTRICT

REGISTER OF DEMAND PAYMENTS

1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total
1/13/2022	151740	DATA SUPPORT CO	69603	LAB SUPPLIES	1,357.43
	151740 Total				1,357.43
	151741	DISH NETWORK	69559	Dish	798.98
	151741 Total				798.98
	151742	DIXIELINE LUMBER	69548	SAND BAGS	663.89
			69611	SAND BAGS	418.80
	151742 Total				1,082.69
	151743	ENV SERVICES	69592	Annual fume hood services	550.00
	151743 Total				550.00
	151744	EUROFINS CALSCIENCE	69557	WATER SAMPLE TESTING	150.00
			69599	MONTHLY SAMPLING	875.00
	151744 Total				1,025.00
	151745	EVOQUA WATER TECH.	69604	DI water tank exchange	657.44
	151745 Total				657.44
	151746	FERGUSON WATERWORKS	69475	SEAL THREAD, O-RING SEALS, SEAL ROD, PISTON	235.17
			69547	PLUMBING SUPPLIES	151.23
			69578	Santee Inv. - Misc.	9,788.94
			69580	Santee Inv. - Misc.	5,480.38
			69606	RETURN SPUD COUPLING ASSEMBLY	(14.74)
			69612	4 INT SPUD WRENCH	14.15
			69613	1-1/2 CLST SPUD WSHR, SPUD COUP ASSY CP	17.33
	151746 Total				15,672.46
	151747	FERRELLGAS	69652	PROPANE - DISPENSER	699.42
			69653	Propane for bathroom 1, spa/pool	562.08
			69654	Propane for bathroom 1, spa/pool	130.83
	151747 Total				1,392.33
	151748	FISHER SCIENTIFIC	69605	Micro Supplies	2,056.80
			69633	DRY AMP BIO INDICATOR	391.89
			69634	B30 RBN R10000 BLK 4.33 X 200FT	886.03
			69635	SOAP SOFTCIDE-NA FOAM 32 OZ	344.29
			69636	SELF CONTED GLASSAMPOULE 10/PK	225.01
			69637	DP S. MARCESCENS ATCC 43862	297.68
	151748 Total				4,201.70
	151749	FLYERS ENERGY, LLC	69725	Alpine Fuel	3,231.57
	151749 Total				3,231.57
	151750	FRITO-LAY	69462	Chips for General Store	104.00
			69520	Chips for General Store	154.27
	151750 Total				258.27
	151751	GRAINGER	68481	RETURN BULKHEAD FITTINGS	(314.03)

PADRE DAM MUNICIPAL WATER DISTRICT
REGISTER OF DEMAND PAYMENTS
1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total
1/13/2022	151751	GRAINGER	68887	PLIERS	179.21
			69284	BLOWER	85.83
			69383	RETURN DRUM VALVE	(130.82)
			69384	DRUM VALVE	130.82
			69409	RETURN PVC BALL VALVE	(236.53)
			69646	CONTROL RELAY SINGLE PUMP DOWN	501.86
	151751 Total				216.34
	151752	GREENBRIER	69514	Greenbrier landscape annual se	1,290.00
			69515	Greenbrier landscape annual se	690.00
			69516	Greenbrier landscape annual se	5,535.00
			69517	Greenbrier landscape annual se	1,450.00
	151752 Total				8,965.00
	151753	HAAKER EQUIPMENT	69696	VACTOR HOSES	1,212.19
	151753 Total				1,212.19
	151754	HACH	69536	Chemkey Packs, 25 Piece Nitrite	1,104.61
			69537	Buffer Solution and Chemkeys	1,811.45
			69600	1 MG/L NH4-N STD SOLN	214.97
			69629	REAGENT F/AMTAX ANALYZER	256.45
			69630	10 MG/L NH4-N STD SOLN, 2000ML	107.49
			69631	10 MG/L NH4-N STD SOLN, 2000ML	107.49
			69638	AMMONIA STD SOLN	85.95
			69639	FILTER ASSY	549.70
			69640	HQ PROTECTIVE GLOVES	76.18
			69641	PH GEL PROBE W/1M CABLE	343.73
	151754 Total				4,658.02
	151755	HASA, INC.	69545	CHLORINE	539.75
			69610	Sani-Chor Purchase - HASA	557.97
	151755 Total				1,097.72
	151756	HAWTHORNE RENT-IT	69533	Skid Steer Rental for Mesa and Prospect	493.31
			69702	Skid Steer Rental - East Heaney and Carlt Oaks	634.76
	151756 Total				1,128.07
	151757	HELIX WATER DISTRICT	69554	CITY SEWER BILLING 10/1/21 0 12/31/21	611.82
	151757 Total				611.82
	151758	HOCH CONSULTING	69615	Professional Services for JN 2	3,820.00
			69697	Engineering services, JN 21902	2,020.00
	151758 Total				5,840.00
	151759	HOME DEPOT	69572	PAINT	43.89
			69573	WD40, SCOTCH BLUE	81.05
			69583	M18 BATTERY, FOLDING KNIFE, BIT SET	299.23

PADRE DAM MUNICIPAL WATER DISTRICT

REGISTER OF DEMAND PAYMENTS

1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total	
1/13/2022	151759	HOME DEPOT	69585	HANGING BRACKETS, STRAP, BUNGEE CORDS	41.43	
			69586	TERRY TOWELS,HEADLAMPS,COAST POLYSTEEL, WINDEX	282.64	
			69587	PLYWOOD, STRAP TIES, STEEL STAKES	66.17	
			69595	EXTENSION LADDER, RATCHET STRAPS	341.54	
			69647	COMMAND STRIPS, ROUTER BIT, MOUNTING TAPE, SAFETY	135.98	
			69648	CHLORINATING TABS	128.19	
			69649	RETURN 10 QT GALV PAIL	(15.06)	
			69650	MICROFIBER FLEX DUSTER, DUST PAN, SQUEEGEE SCRUBBE	96.76	
			69651	BAKING SODA, DOOR PULL, BALLASTS	224.68	
			69686	Santee Inv. - WD-40	126.20	
	151759 Total					1,852.70
	151760	HUDSPETH, TYRELL	69608	REIMBURSE FOR MEMBERSHIP, CERT & TEST FEES	509.53	
			69691	REIMBURSE FOR CWEA EXAM/CERT FEES	180.00	
	151760 Total					689.53
	151761	INTERSTATE BATTERY	69666	BATTERIES	269.45	
	151761 Total					269.45
	151762	J & M BAIT DISTRIBUT	69560	Bait for GS	826.94	
	151762 Total					826.94
	151763	JAN-PRO OF SAN DIEGO	69512	Jan Pro annual cleaning contra	2,210.00	
			69513	Jan Pro annual cleaning contra	2,210.00	
			69551	Cleaning/disinfection of PRC office August -COVID	1,620.00	
			69552	Cleaning/disinfection of PRC office August -COVID	1,560.00	
			69688	Jan Pro annual cleaning contra	4,695.00	
	151763 Total					12,295.00
	151764	KEN WEINBERG WATER	69576	AWP project Consulting Service	307.50	
	151764 Total					307.50
	151765	LONGROAD ENERGY HOLD	69582	SOLAR OAKS- DECEMBER 2021	8,110.25	
			69584	SOLAR WILLOW - DECEMBER 2021	2,621.53	
	151765 Total					10,731.78
151766	LOWE'S HOME IMPROVE	69575	DOUBLE DRIVE GATE, FLUORESCENT BULBS, 5-TOOL COMBO	2,313.71		
151766 Total					2,313.71	
151767	MAIL DISPATCH	69569	District Courier Service Blank	584.16		
		69698	District Courier Service Blank	584.16		
151767 Total					1,168.32	
151768	MARK'S AUTO GLASS	69661	WINDSHIELD REPLACEMENT	745.42		
		69694	Auto Glass Work	315.42		
		69701	Auto Glass Work	478.00		
151768 Total					1,538.84	
151769	MCMASTER-CARR SUPPLY	69602	ADJUSTABLE HEIGHT OFFICE WORKSTATION	602.61		

PADRE DAM MUNICIPAL WATER DISTRICT

REGISTER OF DEMAND PAYMENTS

1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total
1/13/2022	151769	MCMaster-CARR SUPPLY	69614	DESKS FOR METER SHOP	5,582.45
			69664	COBALT STEEL 1/2" DRILL BIT	67.38
			69665	HOSE FITTINGS, CLAMPS	68.98
151769 Total					6,321.42
	151770	MEACOR SIGNS	69510	trout season signs	96.97
151770 Total					96.97
	151771	MITSUBISHI ELECTRIC	69687	Annual Elevator Service	339.71
151771 Total					339.71
	151772	MOUNTAIN MATERIALS	69616	Santee Inv. - 3/4" Crushed Rock	584.45
			69618	Santee Inv. - DG	776.54
151772 Total					1,360.99
	151773	NAPA	69670	HANDCLEANER, HOSE CLAMPS	11.33
			69671	BATTERY	204.26
			69672	OIL, UNIVERSAL CEMENT	59.25
151773 Total					274.84
	151774	NCL OF WISCONSIN	69642	BOD NUTRIENT SET, B-12D 50ML BOD STANDARD	122.69
151774 Total					122.69
	151775	PACIFIC STATES PETRO	69700	Santee Unleaded Fuel	16,310.30
151775 Total					16,310.30
	151776	PARKHOUSE TIRE	69644	TIRES	423.48
151776 Total					423.48
	151777	PEDROZA READY MIX	69524	Concrete for Mesa and Big Rock	1,030.09
			69617	Concrete for Mesa & Prospect - G.Gibbs	964.90
151777 Total					1,994.99
	151778	PFM ASSET MANAGEMENT	69705	FINANCIAL MANAGEMENT SERVICES	4,874.42
151778 Total					4,874.42
	151779	PRIZM JANITORIAL	69527	Park Cabin Cleaning - Prizm	765.00
			69528	Park Cabin Cleaning - Prizm	255.00
			69529	Park Cabin Cleaning - Prizm	425.00
			69530	Park Cabin Cleaning - Prizm	1,105.00
			69532	Park Cabin Cleaning - Prizm	765.00
151779 Total					3,315.00
	151780	R.S. HUGHES CO	69546	Gloves for park	384.82
151780 Total					384.82
	151781	SIR SPEEDY PRINTING	69508	Permit Printing	542.66
151781 Total					542.66
	151782	SMART & FINAL STORES	69685	KITCHEN SUPPLIES	83.76
151782 Total					83.76
	151783	SMARTCOVER SYSTEMS	69521	Smart Cover Install - J.Vargas	5,173.41

PADRE DAM MUNICIPAL WATER DISTRICT
REGISTER OF DEMAND PAYMENTS
1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total
1/13/2022	151783	SMARTCOVER SYSTEMS	69525	Smart cover at Santee Lakes Lake 2	120.00
	151783 Total				5,293.41
	151784	SNAP-ON TOOLS	69695	Torque wrench for electricians.	482.72
	151784 Total				482.72
	151785	SPRINGBOARD PARTNERS	69534	Uniform Shirts for CC45/ Mech. Shop	497.63
			69535	Inventory Ball Caps	2,015.53
	151785 Total				2,513.16
	151786	STAPLES ADVANTAGE	69509	OFFICE SUPPLIES	38.91
			69567	DAILY CALENDAR	14.20
			69568	COPY PAPER, KEYBOARD WRIST REST	99.10
			69621	WALL CALENDAR	18.88
			69622	QUICKNOTE DESKPADS	43.51
			69623	DESK AND WALL CALENDARS/PLANNERS	371.65
	151786 Total				586.25
	151787	STREAKWAVE WIRELESS	69620	Ubiquiti Power Bridge 5 AC Radio	118.53
	151787 Total				118.53
	151788	SUPERIOR READY MIX	69526	Concrete for ESA VR	376.30
	151788 Total				376.30
	151789	SWRCB FEES-DRINKING	69538	Water System Fees FY 7/1/21 - 6/30/22	70,966.44
	151789 Total				70,966.44
	151790	TARGET SPECIALTY PRO	69549	pesticide	274.51
			69550	pesticide	409.57
	151790 Total				684.08
	151791	TEC EQUIPMENT, INC.	69693	Auto Glass For Mack Truck	406.35
	151791 Total				406.35
	151792	TENGOINTERNET	69507	Monthly charges	2,589.70
	151792 Total				2,589.70
	151793	TRIDEN GROUP CORP	69566	Security as a Subscription	4,995.00
	151793 Total				4,995.00
	151794	TURVEY, M R EQUIPT	69703	Alpine Inventory - Turvey	415.57
			69704	Alpine Inv. -DG	1,035.52
	151794 Total				1,451.09
	151795	TYLER TECHNOLOGIES	69591	Annual Support & Maint. for All Munis Mods.	52,423.12
	151795 Total				52,423.12
	151796	UNDERGROUND SERVICE	69562	CA STATE FEE FOR REGULATORY COSTS	157.07
			69563	NEW TICKET CHARGES	566.05
	151796 Total				723.12
	151797	UNIVAR SOLUTIONS	69596	Methanol	20,042.37
	151797 Total				20,042.37

PADRE DAM MUNICIPAL WATER DISTRICT

REGISTER OF DEMAND PAYMENTS

1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total	
1/13/2022	151798	VERIZON CONNECT TELO	69581	Monthly Recurring Service Contract	1,416.20	
			69593	One-time Installation Charge - Equipment Install	1,922.00	
			69594	One-time Installation Charge - Equipment Install	558.00	
	151798 Total				3,896.20	
	151799	WATEREUSE ASSOC SD	69577	2022 ORGANIZATIONAL MEMBERSHIP ENROLLMENT	75.00	
					151799 Total	
	151800	WAXIE'S ENTERPRISES	69541	bathroom supplies park	513.60	
					151800 Total	
	1/13/2022 Total					559,829.26
	1/20/2022	151801	ABC IMAGING	69817	PUMP STATION IMPROVEMENTS PRJ PHASE 1	826.25
151801 Total						826.25
151802		ACC BUSINESS	69826	Internet Circuit's CSC and CSC	1,306.37	
					151802 Total	
151803		ADAMS, CHIREEN	233130	MEDICARE PREMIUM REIMBURSE	314.70	
					151803 Total	
151804		AGRICULTURAL PEST CO	69728	Blanket pest control Park	50.00	
			69729	Blanket pest control Park	195.00	
			69838	Blanket pest control Park	100.00	
151804 Total				345.00		
151805		AMAZON CAPITAL SERV	69790	TYPE C REPLACEMENT AC ADAPTER	73.27	
			69818	BBQ GRILL BRUSH AND SCRAPER, SCRUB SPONGES, DRYING	213.98	
			69819	SHORELINE MARINE KEY FLOAT, KEY TAGS W/RINGS	60.72	
			69820	MULTI SURFACE FORMULA CLEANER, HAND SOAP REFILLS	256.62	
			69830	APC UPS BATTERY REPLACEMENTS	254.24	
			69831	DESKTOP COMPUTER TOWER STANDS	103.40	
151805 Total				962.23		
151806		ANDREA JOHNSON	4540311	MEDICARE PREMIUM REIMBURSE	314.70	
151806 Total				314.70		
151807		AT&T MESSAGING	69828	Blanket Purchase Order for AT&	14.00	
151807 Total				14.00		
151808		AUTOMATIONDIRECT.COM	69808	Submersible Level Transducer	2,586.00	
151808 Total				2,586.00		
151809		BACZYNSKI, DEBORAH	232230	MEDICARE PREMIUM REIMBURSE	1,020.60	
151809 Total				1,020.60		
151810		BAILEY, HAROLD	231430	MEDICARE PREMIUM REIMBURSE	1,020.60	
151810 Total				1,020.60		
151811		BARBER, HARRY	232330	MEDICARE PREMIUM REIMBURSE	3,652.11	
151811 Total				3,652.11		
151812		BASTA, THERESA	3126218	MEDICARE PREMIUM REIMBURSE	402.00	

PADRE DAM MUNICIPAL WATER DISTRICT
REGISTER OF DEMAND PAYMENTS
1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total
1/20/2022	151812 Total				402.00
	151813	BEST, BEST & KRIEGER	69777	DRISCOLL & OMENS PROP 218 LITIGATION-SHARED	626.33
			69778	DRISCOLL & OMENS PROP 218 LITIGATION-SOLE BENEFIT	1,445.40
			69779	DRISCOLL & OMENS PROP 218-PRA REQUESTS	626.80
	151813 Total				2,698.53
	151814	BLACK, DANIEL	2596419	MEDICARE PREMIUM REIMBURSEMENT	867.60
	151814 Total				867.60
	151815	BOOT WORLD	69849	LARRY WARD SHOES FY22	156.83
	151815 Total				156.83
	151816	BRADY INDUSTRIES OF	69727	bathroom products for cabin and Park	338.60
			69837	bathroom products for cabin and Park	240.12
	151816 Total				578.72
	151817	BRINKER, LEONILA	232730	MEDICARE PREMIUM REIMBURSE	314.70
	151817 Total				314.70
	151818	BROOKS, WILLIAM	229730	MEDICARE PREMIUM REIMBURSE	3,149.40
	151818 Total				3,149.40
	151819	BRUGMAN, CHERYL	609255	MEDICARE PREMIUM REIMBURSE	955.80
	151819 Total				955.80
	151820	BUTLER, FREDDIE	228930	MEDICARE PREMIUM REIMBURSE	629.40
	151820 Total				629.40
	151821	CA DEPT TAX AND FEE	69789	SALES & USE TAX Q4 2021	1,036.00
	151821 Total				1,036.00
	151822	CA DEPT. OF TAX & FE	69880	UNDERGROUND STORAGE ACCT 44-021967	1,060.12
	151822 Total				1,060.12
	151823	CAIRES, AUGUST	232430	MEDICARE PREMIUM REIMBURSE	721.20
	151823 Total				721.20
	151824	CAL PACIFIC TRUCK	69875	TRUCK PARTS	55.47
			69876	TRUCK PARTS	2,212.26
			69877	TRUCK PARTS	180.44
			69878	TRUCK PARTS	408.60
			69879	TRUCK PARTS	705.60
	151824 Total				3,562.37
	151825	CALIFORNIA AQUACULT	69844	One Year Membership	150.00
	151825 Total				150.00
	151826	CED(CONSOLIDATED ELE	69802	WIRE	171.45
	151826 Total				171.45
	151827	CHOICE LOCKSMITHING	69836	locks for park plus labor	956.59
			69856	Blanket park locksmith	178.53
			69863	Locksets and keys cabin/park	365.39

PADRE DAM MUNICIPAL WATER DISTRICT
REGISTER OF DEMAND PAYMENTS
1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total
1/20/2022	151827 Total				1,500.51
	151828	CLIPLEF, LINDA	2596219	MEDICARE PREMIUM REIMBURSEMENT	891.00
	151828 Total				891.00
	151829	CONSOLIDATED BLDG SY	69736	Occupancy & Legal	4,450.00
	151829 Total				4,450.00
	151830	CORNELIUS, CLARA	609275	MEDICARE PREMIUM REIMBURSE	510.30
	151830 Total				510.30
	151831	CORODATA RECORDS	69775	RECORD STORAGE - DECEMBER 2021	66.97
	151831 Total				66.97
	151832	CORTRIGHT, JAMES	229230	MEDICARE PREMIUM REIMBURSE	891.00
	151832 Total				891.00
	151833	COX BUSINESS SERVICE	69843	Cox Phone and TV for Cabins	377.87
	151833 Total				377.87
	151834	CUST SERVICE REFUNDS	69853	CUSTOMER SERVICE REFUND	284.37
	151834 Total				284.37
	151835	CUST SERVICE REFUNDS	69854	CUSTOMER SERVICE REFUND	52.27
	151835 Total				52.27
	151836	CUST SERVICE REFUNDS	69852	CUSTOMER SERVICE REFUND	122.90
	151836 Total				122.90
	151837	CUST SERVICE REFUNDS	69855	CUSTOMER SERVICE REFUND	490.87
	151837 Total				490.87
	151838	CUSTOM MECHANICAL	69860	A/C REPAIR - ALPINE OFFICE	375.00
	151838 Total				375.00
	151839	CWEA - CERT RENEWAL	69889	CERT RENEWAL - C. WRIGHT	91.00
	151839 Total				91.00
	151840	DAVIS, JAMES	233730	MEDICARE PREMIUM REIMBURSE	510.30
	151840 Total				510.30
	151841	DEDONATO, JOHN	697821	MEDICARE PREMIUM REIMBURSE	510.30
	151841 Total				510.30
	151842	DEGNAN, MARIE	233430	MEDICARE PREMIUM REIMBURSE	629.40
	151842 Total				629.40
	151843	DELANEY, KATHY	2345120	MEDICARE PREMIUM REIMBURSEMENT	891.00
	151843 Total				891.00
	151844	DELL, JAMES	229830	MEDICARE PREMIUM REIMBURSE	314.70
	151844 Total				314.70
	151845	DEWITT, TAMALYN	3375916	HEALTH REIMBURSEMENT	3,912.99
	151845 Total				3,912.99
	151846	DIRECT TV	69792	Direct TV for Ops Multipurpose	109.99
	151846 Total				109.99

PADRE DAM MUNICIPAL WATER DISTRICT
REGISTER OF DEMAND PAYMENTS
1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total
1/20/2022	151847	DUFFY, ROBERT	2595819	MEDICARE PREMIUM REIMBURSEMEN	402.00
	151847 Total				402.00
	151848	DYSON, CARL	230130	MEDICARE PREMIUM REIMBURSE	716.70
	151848 Total				716.70
	151849	EDCO DISPOSAL	69887	WASTE/RECYCLE SERVICES DECEMBER 2021	831.37
	151849 Total				831.37
	151850	ELLIS-LINDQUIST, MAR	2115322	MEDICARE PREMIUM REIMBURSE	891.00
	151850 Total				891.00
	151851	EWING IRRIGATION PRO	69840	IRRIGATION SUPPLIES	527.01
	151851 Total				527.01
	151852	EXCEL TELEMESSAGING	69827	Blanket PO for Answering Servi	260.30
	151852 Total				260.30
	151853	FERGUSON WATERWORKS	69881	Santee Inv. - Misc.	1,393.85
			69882	Alpine Inventory	554.37
			69886	Hydro Test 30" Butterfly Valve	2,943.99
			69888	Alpine Inventory	375.39
	151853 Total				5,267.60
	151854	FERREIRA CONSTRUCTIO	69893	CORDIAL RD PIPELINE REPLACEMENT PROJECT	479,522.19
	151854 Total				479,522.19
	151855	FORDYCE, JACK	228330	MEDICARE PREMIUM REIMBURSE	3,702.42
	151855 Total				3,702.42
	151856	FRITO-LAY	69824	Chips for General Store	2.78
			69825	Chips for General Store	77.62
	151856 Total				80.40
	151857	GAETA, MARIJO	3376016	MEDICARE PREMIUM REIMBURSE	510.30
	151857 Total				510.30
	151858	GALLO, KENNETH	586606	HEALTH INSURANCE REIMBURSE	1,935.06
	151858 Total				1,935.06
	151859	GARGANO, LINDA	4084113	MEDICARE PREMIUM REIMBURSE	1,752.00
	151859 Total				1,752.00
	151860	GARRETT, SUSAN	1615124	MEDICARE PREMIUM REIMBURSE	406.50
	151860 Total				406.50
	151861	GASSAWAY, KAREN	229330	MEDICARE PREMIUM REIMBURSE	1,020.60
	151861 Total				1,020.60
	151862	GEOCON	69797	Geotechnical Services - ESA Valve Repl	1,930.00
			69813	GEOTECHNICAL TESTING & OBSERVATION SERVICES	710.00
			69864	Geotech services testing & obs	450.00
			69865	Geotech services testing & obs	2,375.00
			69866	Geotech services testing & obs	4,650.00

PADRE DAM MUNICIPAL WATER DISTRICT

REGISTER OF DEMAND PAYMENTS

1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total	
1/20/2022	151862	GEOCON	69867	Geotech services testing & obs	7,722.50	
			69868	Geotech services testing & obs	797.50	
			69869	Geotech services testing & obs	760.00	
			69870	Geotech services testing & obs	1,520.00	
	151862 Total					20,915.00
	151863	GERLEK, HAROLD	2596019	MEDICARE PREMIUM REIMBURSEMEN	3,379.41	
	151863 Total					3,379.41
	151864	GRAINGER	69884	THRESHOLD, SMOTH/FLUTED TOP, 4 FT.	92.23	
			69885	DOOR SWEEP, 4 FT.	44.43	
	151864 Total					136.66
	151865	GREEN, LARRY	2596319	MEDICARE PREMIUM REIMBURSEMEN	804.00	
	151865 Total					804.00
	151866	GREENBRIER	69742	CSC conservation garden replacement	28,766.00	
	151866 Total					28,766.00
	151867	HELIX LABORATORIES	69883	55 GL Drum Commander Purchase for CC71	1,185.25	
	151867 Total					1,185.25
	151868	HELIX WATER DISTRICT	69767	4TH QTR 2021 COMBO TANK	2,843.13	
	151868 Total					2,843.13
	151869	HILLIKER, MERCEDES	231530	MEDICARE PREMIUM REIMBURSE	629.40	
	151869 Total					629.40
	151870	HOLMES, MARTIN	230630	MEDICARE PREMIUM REIMBURSE	891.00	
	151870 Total					891.00
	151871	HOME DEPOT	69730	LYSOL, HOSES, CRESCENT WRENCHES, TACTICAL LIGHTS	307.62	
			69776	M18 18VOLT HIGH OUTPUT BATTERY	643.27	
			69794	CHALK REEL, MICROFIBER TOWELS, BATTERIES	159.97	
			69806	WIRELESS DOORBELL KIT	37.68	
			69832	CAULK SAVER	7.20	
			69841	BROOMS	75.49	
			69842	PAINT, DECK SCREWS, TOILET SEALANT, 3TOOL COMBO	1,057.69	
			151871 Total			
	151872	HUDSON SAFE*T*LITE	69743	Traffic control Arnold Way	990.00	
			69744	Traffic control Arnold Way	1,372.50	
			69745	Traffic control West Victoria	1,525.00	
			69746	Traffic control Whitsett DR.	1,075.00	
			69747	Traffic control Buena Vista	947.50	
			69748	Traffic control Buena Vista	1,287.50	
			69749	Traffic control Buena Vista	777.50	
			69750	Traffic control El Monte RD.	990.00	
	69751	Traffic control El Monte RD.	1,470.00			

PADRE DAM MUNICIPAL WATER DISTRICT

REGISTER OF DEMAND PAYMENTS

1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total
1/20/2022	151872	HUDSON SAFE*T*LITE	69752	Traffic control Prospect & Mesa	1,415.00
			69753	Traffic control Prospect & Mesa	817.50
			69754	Traffic control Prospect & Mesa	817.50
			69755	Traffic control Prospect & Mesa	872.50
			69756	Traffic control Prospect & Mesa	817.50
			69757	Traffic control Prospect & Mesa	762.50
			69758	Traffic control Prospect & Mesa	1,372.50
			69759	Traffic control Prospect & Mesa	845.00
			69760	Traffic control Prospect & Mesa	240.00
			69761	Traffic control Prospect & Mesa	1,965.00
			69762	Traffic control Prospect & Mesa	586.25
	151872 Total				20,946.25
	151873	INFOSEND	69846	Infosend Billing Services Blanket For 2021/2022	3,569.46
			69847	Infosend Billing Services Blanket For 2021/2022	1,736.78
			69848	Infosend Billing Services Blanket For 2021/2022	1,052.29
	151873 Total				6,358.53
	151874	JACOBS, BARTON	229030	MEDICARE PREMIUM REIMBURSE	314.70
	151874 Total				314.70
	151875	JEFF & TONY'S DSD	69823	Ice cream for GS	657.72
	151875 Total				657.72
	151876	JOHNSON CONTROLS SEC	69740	Johnson Controls quarterly billing	5,691.01
			69741	Johnson Controls quarterly billing	780.57
	151876 Total				6,471.58
	151877	JOHNSTON, THELMA	227830	MEDICARE PREMIUM REIMBURSE	629.40
	151877 Total				629.40
	151878	JOHNSTON, THELMA	233930	DECLINE DUPLICATE HEALTH	1,406.67
	151878 Total				1,406.67
	151879	JR BEES, LLC	69763	Bee Removal	250.00
			69764	Bee Removal	250.00
	151879 Total				500.00
	151880	JWC ENVIRONMENTAL	69793	Controllors for Grinders	497.44
	151880 Total				497.44
	151881	KEEBLER, LISA	586625	MEDICARE PREMIUM REIMBURSE	445.50
	151881 Total				445.50
	151882	KENNEL, DAVID	679527	MEDICARE PREMIUM REIMBURSE	433.80
	151882 Total				433.80
	151883	KNOTT'S PEST CONTROL	69810	MONTHLY ANT CONTROL	50.00
	151883 Total				50.00
	151884	KOZLOVICH, TATYANA	609265	MEDICARE PREMIUM REIMBURSE	445.50

PADRE DAM MUNICIPAL WATER DISTRICT
REGISTER OF DEMAND PAYMENTS
1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total
1/20/2022	151884 Total				445.50
	151885	LARIMER, KAY	232530	MEDICARE PREMIUM REIMBURSE	406.50
	151885 Total				406.50
	151886	LASER SAVER	69845	LaserSaver Printer Services	494.21
	151886 Total				494.21
	151887	LEGGOTT, STEPHANIE	697831	MEDICARE PREMIUM REIMBURSE	1,033.63
	151887 Total				1,033.63
	151888	LESLIE, SHARON	232930	MEDICARE PREMIUM REIMBURSE	314.70
	151888 Total				314.70
	151889	LEVIN, DIANA	1378625	MEDICARE PREMIUM REIMBURSE	771.90
	151889 Total				771.90
	151890	LIMTIACO, STEVE	609285	MEDICARE PREMIUM REIMBURSE	445.50
	151890 Total				445.50
	151891	LOUDON, DAVID	4540710	MEDICARE PREMIUM REIMBURSEMENT	402.00
	151891 Total				402.00
	151892	MAIN ELECTRIC SUPPLY	69799	BOARD ROOM LIGHTING	329.72
			69800	DOSING PORTS	164.92
			69805	SEALTIGHT	661.46
	151892 Total				1,156.10
	151893	MARTIN, GERALD	230430	MEDICARE PREMIUM REIMBURSE	1,493.91
	151893 Total				1,493.91
	151894	MAXWELL, THOMAS	230530	MEDICARE PREMIUM REIMBURSE	2,531.70
	151894 Total				2,531.70
	151895	MCLAUGHLIN, MICHAEL	4540211	MEDICARE PREMIUM REIMBURSE	406.50
	151895 Total				406.50
	151896	MCMASTER-CARR SUPPLY	69803	DISCONNECT SWITCH W/ LOCKOUT	591.10
			69873	YOR-LOK FITTINGS	1,009.35
	151896 Total				1,600.45
	151897	MILLER, ROBERTA	234030	MEDICARE PREMIUM REIMBURSE	641.10
	151897 Total				641.10
	151898	MITCHELL, TED	231630	MEDICARE PREMIUM REIMBURSE	629.40
	151898 Total				629.40
	151899	MOFFATT, KENNETH	231330	MEDICARE PREMIUM REIMBURSEMENT	402.00
	151899 Total				402.00
	151900	MOREAU, DONNA	231830	MEDICARE PREMIUM REIMBURSE	3,544.29
	151900 Total				3,544.29
	151901	MOREAU, MARCUS	630523	MEDICARE PREMIUM REIMBURSE	510.30
	151901 Total				510.30
	151902	MORGAN, JOHN	233630	MEDICARE PREMIUM REIMBURSE	1,020.60

PADRE DAM MUNICIPAL WATER DISTRICT
REGISTER OF DEMAND PAYMENTS
1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total
1/20/2022	151902 Total				1,020.60
	151903	NAPA	69768	55G DRUM DEF	323.98
			69769	ANTIFREEZE	25.83
			69770	DEF 25	78.34
			69871	TERMINALS	16.44
	151903 Total				444.59
	151904	NATIONAL BUSINESS FU	69809	FILE PEDESTALS	889.44
	151904 Total				889.44
	151905	NATIONWIDE (VET PET)	69815	DECEMBER 2021	604.17
	151905 Total				604.17
	151906	NAUTILUS ENVIRONMENT	69735	4th quarter toxicity	2,200.00
	151906 Total				2,200.00
	151907	NUNEZ, LESLIE	233030	MEDICARE PREMIUM REIMBURSE	314.70
	151907 Total				314.70
	151908	OLIVER, MARY	231730	MEDICARE PREMIUM REIMBURSE	2,218.85
	151908 Total				2,218.85
	151909	OMEGA ENGINEERING	69801	PUMP LEVEL CONTROL SWITCHES	197.25
			69851	PUMP LEVEL CONTROL SWITCHES	568.75
	151909 Total				766.00
	151910	PACIFIC TELEMANAGEME	69726	Phone	153.00
	151910 Total				153.00
	151911	PARKHOUSE TIRE	69874	11R22.5 TIRES	970.62
	151911 Total				970.62
	151912	PDMWD PETTY CASH ADM	69812	ADMIN PETTY CASH 01/12/2022	159.62
	151912 Total				159.62
	151913	PEPIN, THERESE	69788	MEDICARE PREMIUM REIMBURSE	510.30
	151913 Total				510.30
	151914	PETRYKOWSKI, JEFFREY	230728	MEDICARE PREMIUM REIMBURSE	692.70
	151914 Total				692.70
	151915	POTTER, JAMES	228530	MEDICARE PREMIUM REIMBURSE	891.00
	151915 Total				891.00
	151916	PUMPHREY, JOHN	228030	MEDICARE PREMIUM REIMBURSE	629.40
	151916 Total				629.40
	151917	QUINN, BRIAN	4984310	MEDICARE PREMIUM REIMBURSE	445.50
	151917 Total				445.50
	151918	REXEL USA, INC.	69798	COP THHN14STRBLU500RL	148.07
			69804	CONDUIT, ADAPTERS, SCREWDRIVER	227.10
	151918 Total				375.17
	151919	ROSSMILLER, ROLAND	229530	MEDICARE PREMIUM REIMBURSE	629.40

PADRE DAM MUNICIPAL WATER DISTRICT
REGISTER OF DEMAND PAYMENTS
1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total
1/20/2022	151919 Total				629.40
	151920	SAMPLE, SUZANNE	498419	MEDICARE PREMIUM REIMBURSE	891.00
	151920 Total				891.00
	151921	SANDERS, LESLEY	1173425	MEDICARE PREMIUM REIMBURSE	433.80
	151921 Total				433.80
	151922	SANGUINETTI, ALFRED	233230	MEDICARE PREMIUM REIMBURSE	629.40
	151922 Total				629.40
	151923	SD POWDER COATING	69772	POWDER COATING OF FLANGE CAPS	478.75
			69795	Pipe Coating for PS 3, Pump #2	1,549.75
	151923 Total				2,028.50
	151924	SETTER, CHARLES	586596	MEDICARE PREMIUM REIMBURSE	510.30
	151924 Total				510.30
	151925	SHARP HEALTH PLAN	69829	INSURANCE - FEBRUARY 2022	134,088.22
	151925 Total				134,088.22
	151926	SHERWIN WILLIAMS	69850	PAINT	79.98
	151926 Total				79.98
	151927	SIR SPEEDY PRINTING	69861	Permit Printing	216.41
			69862	Permit Printing	618.79
	151927 Total				835.20
	151928	SK DIGITAL IMAGING	69766	DOOR HANGERS & INSTRUCTION SHEETS	716.54
	151928 Total				716.54
	151929	SMART & FINAL STORES	69821	CABIN/PARK SUPPLIES	409.93
			69822	WATER, COFFEEMATE	28.13
	151929 Total				438.06
	151930	SMITH, CYNTHIA	2596119	MEDICARE PREMIUM REIUMBURSMEN	867.60
	151930 Total				867.60
	151931	SMITH, GARY	2345220	MEDICARE PREMIUM REIMBURSEMEN	2,300.46
	151931 Total				2,300.46
	151932	SNELL INFRARED	69796	Thermographic Applications Course - Manny Lozano	1,895.00
	151932 Total				1,895.00
	151933	STAPLES ADVANTAGE	69737	OFFICE SUPPLIES	7.64
			69738	OFFICE SUPPLIES	18.64
			69739	OFFICE SUPPLIES	12.46
	151933 Total				38.74
	151934	STATE WATER RES OPCE	69890	CERT RENEWAL - D. ROBERTS	105.00
	151934 Total				105.00
	151935	STATE WATER RES OPCE	69891	CERT RENEWAL - J. KNOWLES	140.00
	151935 Total				140.00
	151936	STERLING INFOSYSTEMS	69816	BACKGROUND CHECK SERVICES	160.39

PADRE DAM MUNICIPAL WATER DISTRICT
REGISTER OF DEMAND PAYMENTS
1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total
1/20/2022	151936 Total				160.39
	151937	STEVENS, GARY	233530	MEDICARE PREMIUM REIMBURSE	629.40
	151937 Total				629.40
	151938	STOTLER, CARL	1378525	MEDICARE PREMIUM REIMBURSE	1,020.60
	151938 Total				1,020.60
	151939	STRAITON, SANDRA	230830	MEDICARE PREMIUM REIMBURSE	1,020.60
	151939 Total				1,020.60
	151940	SWRCB FEES-STORMWATE	69791	NPDES WW Community WS / Fac ID# 4DW0415	3,146.00
			69833	NPDES WW / Fac ID# 9 000000053	14,272.00
	151940 Total				17,418.00
	151941	TERRANA, DAVID	69786	MEDICARE PREMIUM REIMBURSE	445.00
	151941 Total				445.00
	151942	THORNBURGH, BRIAN	630513	MEDICARE PREMIUM REIMBURSE	891.00
	151942 Total				891.00
	151943	VAN EENOO, SANDRA	228730	MEDICARE PREMIUM REIMBURSE	314.70
	151943 Total				314.70
	151944	WAGGONER, PHILLIP	4984410	MEDICARE PREMIUM REIMBURSE	4,247.28
	151944 Total				4,247.28
	151945	WALTRIP, TERRY	586586	MEDICARE PREMIUM REIMBURSE	867.60
	151945 Total				867.60
	151946	WALTRIP, TERRY	233830	DECLINE DUP HEALTH	1,406.67
	151946 Total				1,406.67
	151947	WAXIE'S ENTERPRISES	69732	bathroom supplies park	442.07
			69835	bathroom supplies park	56.08
	151947 Total				498.15
	151948	WAY, WILLARD	231130	MEDICARE PREMIUM REIMBURSE	1,020.60
	151948 Total				1,020.60
	151949	WELLS, JOHN	229430	MEDICARE PREMIUM REIMBURSE	1,886.40
	151949 Total				1,886.40
	151950	WEST COAST ARBORISTS	69839	Assessment of 2 trees impacted/city construction	898.66
	151950 Total				898.66
	151951	WEST, DIXIE	1378325	MEDICARE PREMIUM REIMBURSE	2,022.51
	151951 Total				2,022.51
	151952	WESTAIR GASES&EQUIP	69774	CYLINDER RENTALS	134.95
	151952 Total				134.95
	151953	WESTON, STEVEN	229630	MEDICARE PREMIUM REIMBURSE	3,704.10
	151953 Total				3,704.10
	151954	WHEELUS, WILLIAM	231229	MEDICARE PREMIUM REIMBURSE	314.70
	151954 Total				314.70

PADRE DAM MUNICIPAL WATER DISTRICT

REGISTER OF DEMAND PAYMENTS

1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total
1/20/2022	151955	WHITE, DIANNA	228130	MEDICARE PREMIUM REIMBURSE	629.40
	151955 Total				629.40
	151956	WILSON, DOUGLAS	232130	MEDICARE PREMIUM REIMBURSE	1,020.60
	151956 Total				1,020.60
	151957	WOODS, DANIEL	4540112	MEDICARE PREMIUM REIMBURSE	406.50
	151957 Total				406.50
1/20/2022 Total					862,275.59
1/27/2022	151958	A&B SAW & LAWNMOWER	70050	Small Engine Parts.	107.75
			70051	Small Engine Parts.	47.25
	151958 Total				155.00
	151959	ABABA BOLT	70029	HARDWARE	54.90
	151959 Total				54.90
	151960	AGRICULTURAL PEST CO	69909	Blanket pest control Park	195.00
			69916	Blanket pest control Park	60.00
			69917	Blanket pest control Park	300.00
	151960 Total				555.00
	151961	ALPHA FENCE COMPANY	69964	VINYL FENCE RAIL	27.13
	151961 Total				27.13
	151962	ALPINE ACE HARDWARE	70019	NAILS	7.10
			70020	MISC FASTENERS	4.18
	151962 Total				11.28
	151963	AMAZON CAPITAL SERV	69930	Santee Inv. - Knee Pads	139.20
			69997	Santee Inv. - Sunscreen Spray	138.60
			69998	Santee Inv. - Gloves	840.40
			69999	Santee Inv. - Gloves	818.92
			70022	PHONE CASES AND SCREEN PROTECTORS	60.27
			70031	KICKSPACE HEATER	275.60
			70034	COFFEE MAKER	49.57
			70035	WALL CLOCK	26.93
			70036	STEEL KEY LOCK MAIL BOXES	58.71
			70037	LIQUID HAND SOAP	64.62
			70038	CEILING FAN DUSTER W/REFILLS	38.91
			70039	FIVE MICROWAVES	493.70
			70040	FISHING MAGNETS	31.02
			70042	BADGE HOLDERS	5.27
	151963 Total				3,041.72
	151964	AMERICAN ICE CO	69903	Ice for GS	198.00
	151964 Total				198.00
	151965	ASPHALT & CONCRETE	70062	Asphalt Replacement - Contract Work	6,062.00

PADRE DAM MUNICIPAL WATER DISTRICT
REGISTER OF DEMAND PAYMENTS
1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total
1/27/2022	151965 Total				6,062.00
	151966	ASTERRA/UTILIS INC	69934	As-Needed services for SAR Satellite Imagery	45,990.00
	151966 Total				45,990.00
	151967	AT&T CALNET	69991	SMALL PHONE BILL	796.90
	151967 Total				796.90
	151968	AT&T CALNET	69992	LARGE PHONE BILL	1,975.97
	151968 Total				1,975.97
	151969	BEST, BEST & KRIEGER	69983	CASTLEROCK REORGANIZATION	2,604.30
			69984	THIRD PARTY REIMBURSABLES	155.50
	151969 Total				2,759.80
	151970	BORDER TIRE	70052	Tires, Alignment	720.64
			70053	Tires, Alignment	119.81
			70054	Tires, Alignment	683.27
	151970 Total				1,523.72
	151971	BRADY INDUSTRIES OF	69911	bathroom products for cabin and Park	305.13
	151971 Total				305.13
	151972	CAROLLO ENGINEERS	69924	Water & Sewer Capacity Fee Stu	10,067.00
	151972 Total				10,067.00
	151973	CARQUEST AUTO PARTS	69771	FUEL, HYDRAULIC & OIL FILTERS	80.40
			69957	HYDRAULIC & OIL FILTERS, AIR FITTINGS	279.90
	151973 Total				360.30
	151974	CB&T	69953	JANUARY 2022 LOAN PAYMENT	34,274.43
	151974 Total				34,274.43
	151975	CINCINNATI FAN	70012	Bio Bed Exhaust Fan	1,205.01
	151975 Total				1,205.01
	151976	CINTAS - (UNIFORMS)	69922	Towel and mat annual service	349.65
			69923	Towel and mat annual service	308.30
	151976 Total				657.95
	151977	COMMUNITY ALL-STARS	69938	Santana Ad 22-23	1,100.00
	151977 Total				1,100.00
	151978	CORODATA SHREDDING	69950	SHREDDING SERVICE - DECEMBER 2021	127.87
	151978 Total				127.87
	151979	CUTTING EDGE SUPPLY	70046	Cutting Edges and Bucket Teeth.	211.19
			70047	Cutting Edges and Bucket Teeth.	835.77
	151979 Total				1,046.96
	151980	CWEA - CERT RENEWAL	70013	JOHN WALTER GR 3 CERT RENEWAL	101.00
	151980 Total				101.00
	151981	CWEA - CERT RENEWAL	70014	SHEA HODGES GR.2 CERT RENEWAL	96.00
	151981 Total				96.00

PADRE DAM MUNICIPAL WATER DISTRICT

REGISTER OF DEMAND PAYMENTS

1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total
1/27/2022	151982	CWEA - CERT RENEWAL	70063	CERT RENEWAL - DAVID COOPER	96.00
	151982 Total				96.00
	151983	D&H WATER SYSTEMS	70005	Halogen Emergency shut off service	490.60
			70006	Halogen Emergency shut off service	490.60
	151983 Total				981.20
	151984	DELL MARKETING	69926	Replacement PC for Ryon Dawson	2,064.18
	151984 Total				2,064.18
	151985	DUDEK	69928	as-needed consultant - JN 2210	5,428.75
			70024	As-Needed Services Grossmont T	4,185.00
			70025	As-Needed services Valve Replacement JN219029	1,025.00
			70027	As-Needed services for Jerry Johnson Reservoir	1,540.00
	151985 Total				12,178.75
	151986	ECOSCONNECT, LLC	70015	ECOSCONNECT REPORT SUBMISSION FEE DECEMBER 2021	108.00
	151986 Total				108.00
	151987	FEDERAL EXPRESS CORP	69974	SHIPPING CHARGES	297.85
			70028	FEDEX EXPRESS SERVICES	166.75
	151987 Total				464.60
	151988	FERGUSON WATERWORKS	69940	Thermal tank/repair kit	135.84
			69942	Santee Inv. - 16" C905	1,869.03
			69943	Santee Inv. - Pipe and Di Fittings	556.44
			69944	Santee Inv. - Pipe and Di Fittings	4,733.65
			69945	16 BFV and C905 for Mesa Main Lowering-G.Gibbs	5,607.09
			69951	PIPE, COUPLINGS, BUSHINGS	969.40
			69995	Romac Couplings- Inventory	16,716.15
	151988 Total				30,587.60
	151989	FERRELLGAS	69969	PROPANE - DISPENSER	507.90
			69970	PROPANE - POOL	668.29
	151989 Total				1,176.19
	151990	FISHER SCIENTIFIC	69811	OVEN THERMOMETER	116.63
	151990 Total				116.63
	151991	FLYERS ENERGY, LLC	70055	BULK OILS	3,206.95
	151991 Total				3,206.95
	151992	FRITO-LAY	69900	Chips for General Store	256.31
			69901	Chips for General Store	299.56
	151992 Total				555.87
	151993	GEOCON	69925	As-needed Geotech Eng & Specia	4,780.00
	151993 Total				4,780.00
	151994	GRAINGER	69975	PLEATED AIR FILTERS	725.41
			70007	NEEDLE SCALER KIT	470.90

PADRE DAM MUNICIPAL WATER DISTRICT

REGISTER OF DEMAND PAYMENTS

1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total
1/27/2022	151994	GRAINGER	70021	SAFETY SIGNS	36.85
	151994 Total				1,233.16
	151995	GREENBRIER	69910	Santee Lakes Park Montly Maintenance	612.50
			70008	Cuyamaca reservoir Brush and tree clearing	13,992.50
	151995 Total				14,605.00
	151996	HARTFORD SENIOR MED	69990	RETIREE INSURANCE - FEBRUARY 2022	9,730.76
	151996 Total				9,730.76
	151997	HASA, INC.	69986	CHLORINE	616.10
			69987	CHLORINE	744.10
	151997 Total				1,360.20
	151998	HAWTHORNE RENT-IT	69996	Forklift Rental for Alpine Yard	1,409.76
	151998 Total				1,409.76
	151999	HDR ENGINEERING	70000	Professional Services, JN 2180	154,672.50
	151999 Total				154,672.50
	152000	HORSMAN AUTOMOTIVE	70049	Vehicle smogs for 2021	1,639.06
	152000 Total				1,639.06
	152001	HUDSON SAFE*T*LITE	70011	Traffic control Buena Vista	1,372.50
	152001 Total				1,372.50
	152002	INTERSTATE BATTERY	69963	BATTERIES	297.28
	152002 Total				297.28
	152003	J & M BAIT DISTRIBUT	69907	NightCrawlers GS	1,218.28
	152003 Total				1,218.28
	152004	JCI JONES CHEMICALS	70002	JCI Blanket	1,524.66
			70003	JCI Blanket	4,034.42
	152004 Total				5,559.08
	152005	JEFF & TONY'S DSD	69902	Ice cream for GS	25.80
	152005 Total				25.80
	152006	JESS RANCH DEV CO	69912	Trout Stocking	12,512.50
	152006 Total				12,512.50
	152007	KIMLEY-HORN AND ASSO	70026	Eng Svcs for I-8 Unencased Trans Main JN221007	5,135.86
	152007 Total				5,135.86
	152008	KLEINFELDER, INC.	69895	Services for Grossmont Tank Repair JN218024	10,519.90
	152008 Total				10,519.90
	152009	KLEINFELDER, INC.	69896	As-Needed services for Rios Canyon Surge Tank	1,652.40
	152009 Total				1,652.40
	152010	MAIL DISPATCH	70023	MAIL DISPATCH DECEMBER 2021	147.22
	152010 Total				147.22
	152011	MOUNTAIN MATERIALS	69946	Santee Inv. - DG	870.91
			69947	Santee Inv. - CAB	639.41

PADRE DAM MUNICIPAL WATER DISTRICT
REGISTER OF DEMAND PAYMENTS
1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total
1/27/2022	152011 Total				1,510.32
	152012	NATIONAL SIGNAL	63501	Panel Switch	(342.56)
			70056	Arrow Board LED Lights	345.30
	152012 Total				2.74
	152013	NAUMANN HOBBS	70048	FORK LIFT PARTS	458.25
	152013 Total				458.25
	152014	NEXINITE, LLC	69894	Microsoft Teams Business Decis	17,450.00
	152014 Total				17,450.00
	152015	NOVUS GLASS	69988	WINDSHIELD REPAIR	40.00
	152015 Total				40.00
	152016	P.W. GILLIBRAND CO.	69939	sand	1,822.22
	152016 Total				1,822.22
	152017	PALMER PAINTING	70010	CSC iron fencing painting	2,950.00
	152017 Total				2,950.00
	152018	PARK REFUNDS	70016	TWO LIVE SCAN REIMBURSEMENTS	60.00
	152018 Total				60.00
	152019	PAYAN POOL SERVICES	69915	Blanket pool maintenance	630.00
	152019 Total				630.00
	152020	PENSKE FORD	69814	BRAKE PADS	65.50
			69959	TAIL LAMP	51.05
	152020 Total				116.55
	152021	QUADIENT, INC.	69899	Blanket PO for postage meter rental, online rate	168.75
	152021 Total				168.75
	152022	QUIKRETE	69949	Quikcrete Order for Inventory	2,273.35
	152022 Total				2,273.35
	152023	R.S. HUGHES CO	69919	Gloves for park	103.23
			69920	Gloves for park	179.58
			69933	MARKING PAINT	314.24
			69941	Santee Inv. - Goggles	107.11
	152023 Total				704.16
	152024	RDO EQUIPMENT	70058	Equipment Parts.	73.05
			70059	Equipment Parts.	372.05
			70060	Equipment Parts.	194.21
			70061	Equipment Parts.	553.85
	152024 Total				1,193.16
	152025	READY REFRESH	70017	WATER	354.11
	152025 Total				354.11
	152026	RT LAWRENCE CORPORAT	69929	Lockbox Service	2,588.25
	152026 Total				2,588.25

PADRE DAM MUNICIPAL WATER DISTRICT

REGISTER OF DEMAND PAYMENTS

1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total
1/27/2022	152027	SAN DIEGO FRICTION P	70043	Truck and trailer parts.	444.56
			70044	Truck and trailer parts.	104.09
			70045	Truck and trailer parts.	142.61
	152027 Total				691.26
	152028	SANTEE CHAMBER OF CO	69921	Annual Membership	295.00
	152028 Total				295.00
	152029	SDCWA CWA FEES	69993	Q3 2021 CWA FEES	206,388.00
	152029 Total				206,388.00
	152030	SPRINGBOARD PARTNERS	69913	Staff Shirts	148.65
	152030 Total				148.65
	152031	STAPLES ADVANTAGE	69955	PENS	6.11
			69956	GEL KEYBOARD & MOUSE GELS, INTEROFFICE ENV.	71.89
			69966	WALL CALENDAR	37.65
			69973	ADDING MACHINE ROLLS	16.47
	152031 Total				132.12
	152032	SUPERIOR READY MIX	70001	CONCRETE-BIG BOULDER LN & POLK RD	436.55
	152032 Total				436.55
	152033	SUSAN DUFFETT	69948	Graphic Design for FY 2021 Annual Report	3,289.50
	152033 Total				3,289.50
	152034	THE EPOCH TIMES	69908	Ad print/online	420.00
	152034 Total				420.00
	152035	TREBOR SHORING RENT	69931	Steel Plate Rental - Mesa and Prospect	656.20
			69932	Shoring Rental - Mesa and Prospect	1,080.00
	152035 Total				1,736.20
	152036	U.S. CAD	69898	Bluebeam Software	1,089.00
	152036 Total				1,089.00
	152037	UNITED HEALTH CARE	69989	RETIREE INSURANCE - FEBRUARY 2022	18,502.07
	152037 Total				18,502.07
	152038	VALDO'S MOBILE DETAI	69981	3 FULL VEHICLE DETAILING	750.00
	152038 Total				750.00
	152039	VERIZON WIRELESS	70004	VERIZON CELL PHONE, AIRCARDS & IPAD SERVICE	7,683.64
	152039 Total				7,683.64
	152040	WASTE MANAGEMENT	69905	Waste for park	909.01
			69906	WM Monthly Fees	4,973.88
			69954	TRASH SERVICE - WRF	403.06
	152040 Total				6,285.95
	152041	WESTERN WATER WORKS	69994	16" Hymax Coupling - Mesa and Prospect	1,423.64
	152041 Total				1,423.64
	152042	WHITE CAP-HD SUPPLY	69967	CONCRETE PARKING BUMPER, DOWELS	57.65

PADRE DAM MUNICIPAL WATER DISTRICT
REGISTER OF DEMAND PAYMENTS
1/05/22 - 01/27/22

Check Date	Draft / Check Number	Vendor	Invoice Number	Description	Total
1/27/2022	152042	WHITE CAP-HD SUPPLY	69978	SILICONE SEALANT	365.67
	152042 Total				423.32
	152043	XEROX CORPORATION	69935	Xerox 6605 Maintenance Agreeeme	38.96
			69936	Xerox 6605 Maintenance Agreeeme	38.96
			69937	Xerox 6605 Maintenance Agreeeme	38.96
			152043 Total		
	1/27/2022 Total				674,033.94

**PADRE DAM MUNICIPAL WATER DISTRICT
DIRECTORS' MONTHLY PER DIEM AND EXPENSE CLAIM SUMMARY**

NAME: August Caires **EMP. NO.** 9813 **MONTH/YR** January-22

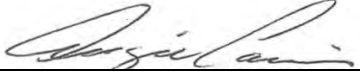
DATE		MEETING ATTENDED	MILEAGE \$ 0.585	AMOUNT \$145
1	1/18/2022	COWU Meeting	0	145.00
2	1/19/2022	Regular Board Meeting	0	145.00
3	1/26/2022	Park Committee Meeting	0	145.00
4	1/27/2022	Council Water Authority Meeting	0	145.00
5	1/28/2022	Issues Meeting with Assistant General Manager	40	145.00
6				
7				
8				
9				
10				
11				
12				
13				
TOTAL:			40	\$725.00

SECTION II - EXPENSE CLAIM SUMMARY (Expense Report form must be attached) (PAY TYPE 805)

DATE	DESCRIPTION	AMOUNT

SECTION III - LOCAL MEETING EXPENSE PAID BY DISTRICT

SECTION IV - SUMMARY

		Total Meetings Attended:	
The undersigned presents this claim in good faith for per diem due and expenses incurred, and not heretofore paid by the District. Signed:  Date: 2/3/2022		Total Eligible Per Diem (Pay Type 105)	\$725.00
		Total Expense Claim (Pay Type 805)	\$0.00
		Total Mileage x IRS rate (Pay Type 800)	\$23.40
		TOTAL AMOUNT DUE	\$748.40
Board Approved:			

MAXIMUM OF 10 MEETINGS PER MONTH – 120 MEETINGS PER YEAR

Per Diems are due the 1st of each month

**PADRE DAM MUNICIPAL WATER DISTRICT
DIRECTORS' MONTHLY PER DIEM AND EXPENSE CLAIM SUMMARY**

NAME: James Peasley **EMP. NO.** 188322 **MONTH/YR** January 2022


DATE	MEETING ATTENDED	MILEAGE 0.585	AMOUNT \$145
1 1/13/2022	General Manager Issues Meeting	28	\$145.00
2 1/19/2022	Regular Board Meeting	0	\$145.00
3 1/26/2022	Park Committee Meeting	0	\$145.00
4 1/27/2022	Santee Chamber Board Meeting	28	\$145.00
5 1/31/2022	General Manager/Staff meeting Pre-Metro/JPA Meeting	0	\$145.00
6			
7			
8			
9			
10			
11			
12			
13			
TOTAL:		56	\$725.00

SECTION II - EXPENSE CLAIM SUMMARY (Expense Report form must be attached) (PAY TYPE 805)

DATE	DESCRIPTION	AMOUNT

SECTION III - LOCAL MEETING EXPENSE PAID BY DISTRICT

SECTION IV - SUMMARY

		Total Meetings Attended:	5
The undersigned presents this claim in good faith for per diem due and expenses incurred, and not heretofore paid by the District. Signed:  Date: 2/1/2022		Total Eligible Per Diem (Pay Type 105)	\$725.00
		Total Expense Claim (Pay Type 805)	\$0.00
		Total Mileage x IRS rate (Pay Type 800)	\$32.76
		TOTAL AMOUNT DUE	\$757.76


Board Approved:

MAXIMUM OF 10 MEETINGS PER MONTH – 120 MEETINGS PER YEAR

Per Diems are due the 1st of each month
Fax to (619)258-6402 or (619) 258-6403

**PADRE DAM MUNICIPAL WATER DISTRICT
DIRECTORS' MONTHLY PER DIEM AND EXPENSE CLAIM SUMMARY**

NAME: Bill Pommering **EMP. NO.** 180494 **MONTH/YR** January-22

DATE	MEETING ATTENDED	MILEAGE \$ 0.585	AMOUNT \$145
1	01/04/2022	SDECCC Governmental Affairs Committee	0 145.00
2	01/14/2022	Meeting w/Acting General Manager (AGM)	0 145.00
3	01/17/2022	Meeting w/GM, AGM on CWA Issues	0 145.00
4	01/18/2022	COWU Meeting	0 145.00
5	01/19/2022	EDECDC Meeting	0 0.00
6	01/19/2022	General Board Meeting	0 145.00
7	01/26/2022	Park Committee Meeting	0 145.00
8	01/31/2022	Pre Board Meeting	0 145.00
9			
10			
11			
12			
13			
TOTAL:		0	\$1,015.00
SECTION II - EXPENSE CLAIM SUMMARY (Expense Report form must be attached) (PAY TYPE 805)			
DATE	DESCRIPTION	AMOUNT	
SECTION III - LOCAL MEETING EXPENSE PAID BY DISTRICT			
SECTION IV - SUMMARY			
The undersigned presents this claim in good faith for per diem due and expenses incurred, and not heretofore paid by the District. Signed:  Date: 01/31/2022 Board Approved:		Total Meetings Attended:	
		Total Eligible Per Diem (Pay Type 105)	\$1,015.00
		Total Expense Claim (Pay Type 805)	\$0.00
		Total Mileage x IRS rate (Pay Type 800)	\$0.00
		TOTAL AMOUNT DUE	\$1,015.00

MAXIMUM OF 10 MEETINGS PER MONTH – 120 MEETINGS PER YEAR

Per Diems are due the 1st of each month
Fax to (619)258-6402 or (619) 258-6403

**PADRE DAM MUNICIPAL WATER DISTRICT
DIRECTORS' MONTHLY PER DIEM AND EXPENSE CLAIM SUMMARY**

NAME: Suzanne Till **EMP. NO.** 200143 **MONTH/YR** January-22

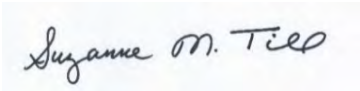
DATE	MEETING ATTENDED	MILEAGE \$ 0.585	AMOUNT \$145
1 1/10/2022	Meeting with GM and AGM		145.00
2 1/19/2022	Board Meeting		145.00
3 1/26/2022	Parks Committee Meeting		145.00
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
TOTAL:		0	\$435.00

SECTION II - EXPENSE CLAIM SUMMARY (Expense Report form must be attached) (PAY TYPE 805)

DATE	DESCRIPTION	AMOUNT

SECTION III - LOCAL MEETING EXPENSE PAID BY DISTRICT

SECTION IV - SUMMARY

		Total Meetings Attended:	
The undersigned presents this claim in good faith for per diem due and expenses incurred, and not heretofore paid by the District. Signed:  Date: 1/31/2022 Board Approved:	Total Eligible Per Diem (Pay Type 105)		\$435.00
	Total Expense Claim (Pay Type 805)		\$0.00
	Total Mileage x IRS rate (Pay Type 800)		\$0.00
	TOTAL AMOUNT DUE		\$435.00

MAXIMUM OF 10 MEETINGS PER MONTH – 120 MEETINGS PER YEAR

Per Diems are due the 1st of each month
Fax to (619)258-6402 or (619) 258-6403

**PADRE DAM MUNICIPAL WATER DISTRICT
DIRECTORS' MONTHLY PER DIEM AND EXPENSE CLAIM SUMMARY**

NAME: Doug Wilson **EMP. NO.** 8040 **MONTH/YR** January-22

DATE		MEETING ATTENDED	MILEAGE \$ 0.585	AMOUNT \$145
1	1/19/2022	Regular Board Meeting		145.00
2	1/21/2022	Gm Issue Meeting		145.00
3	1/26/2022	Park Committee - Special Board Meeting		145.00
4	1/27/2022	SD County Water Authroity Board Meeting		145.00
5				
6				
7				
8				
9				
10				
11				
12				
13				
TOTAL:			0	\$580.00

SECTION II - EXPENSE CLAIM SUMMARY (Expense Report form must be attached) (PAY TYPE 805)

DATE	DESCRIPTION	AMOUNT

SECTION III - LOCAL MEETING EXPENSE PAID BY DISTRICT

SECTION IV - SUMMARY

		Total Meetings Attended:	
The undersigned presents this claim in good faith for per diem due and expenses incurred, and not heretofore paid by the District. Signed: <u><i>Doug Wilson</i></u> Date: Jan-22 Board Approved:		Total Eligible Per Diem (Pay Type 105)	\$580.00
		Total Expense Claim (Pay Type 805)	\$0.00
		Total Mileage x IRS rate (Pay Type 800)	\$0.00
		TOTAL AMOUNT DUE	\$580.00

MAXIMUM OF 10 MEETINGS PER MONTH – 120 MEETINGS PER YEAR

Per Diems are due the 1st of each month

TRAVEL AND MEETING EXPENSE REPORT

NAME: Allen Carlisle

EMPLOYEE #: 144434

C/Center 99

PURPOSE: Miscellaneous Expense Claims

DEPT.: GM

Dates: Nov/Dec

		Dates:	Date	Nov-21	Date	Dec-21	TOTALS
(Receipts attached)		PAID BY DISTRICT WARRANT OR DISTRICT CREDIT CARD					
1	Issues Meeting with Asst. General Manager and Director Peasley		11/1/21	50.94			50.94
2	Office Supplies		11/11/21	9.69			9.69
3	Issues meeting with Director of Operations		11/12/21	44.50			44.50
4	Meeting with Interim Director of Engineering		11/16/21	28.57			28.57
5	Meeting with Senator Jone's representative John Mendez		11/16/21	6.85			6.85
6	Issues Meeting with Asst. General Manager and Director Caires		11/16/21	41.74			41.74
7	Meeting with Pathways Community Church		11/17/21	30.00			30.00
8	Issues Meeting with Asst. General Manager and Director Wilson		11/19/21	40.90			40.90
9	offsite work		11/24/21	6.85			6.85
10	Issues Meeting with Asst. General Manager and Park Director		11/29/21	34.77			34.77
11	Meeting/Workshop with Management Team				12/2/21	87.38	87.38
12	Meeting with Asst. General Manager and Sycuan reps				12/2/21	13.97	13.97
13	AWP Team Meeting				12/3/21	6.50	6.50
14	Issues Meeting with Asst. General Manager and Director Peasley				12/6/21	51.54	51.54
15	Parking for Meeting with Asst. General Manager and City of SD CFO				12/7/21	20.00	20.00
16	Meeting with Asst. General Manager and City of SD CFO				12/7/21	53.46	53.46
17	Issues Meeting with Asst. General Manager and Director Pommering				12/9/21	39.80	39.80
18	Meeting with Asst. General Manager and County Supv. Anderson				12/15/21	21.08	21.08
19	Meeting with Director of Engineering				12/15/21	4.66	4.66
20	Meeting with Director Till				12/15/21	3.52	3.52
21	Issues Meeting with AGM and Director Wilson				12/17/21	72.21	72.21
22	Issues Meeting with AGM and Director Caires				12/17/21	58.36	58.36
23	Monday.com - Team Management software renewal				12/18/21	1646.47	1646.47
24	Fuel - District vehicle				12/18/21	74.89	74.89
25	Issues Meeting with AGM and Director Peasley				12/20/21	56.86	56.86
26	Meeting with Senator Jones				12/21/21	27.48	27.48
SUBTOTAL				294.81		2238.18	2532.99
Mileage Expense:							0.00
TOTAL DISTRICT EXPENSE							2532.99
		PAID BY CLAIMANT (Cash/Personal CC/Check)					
							0.00
							0.00
SUBTOTAL				0.00		0.00	0.00
TOTAL DISTRICT TRIP/MEETING EXPENSE							2532.99
PAID BY DISTRICT							2532.99
AMOUNT DUE TO CLAIMANT - 99. 57200 / 57800 144434 EE							0.00
AMOUNT DUE TO DISTRICT (Please attach personal check)							0.00



Claimant

DATE 2/8/2022



BOARD AGENDA REPORT

Meeting Date: 02-16-2022
Dept. Head: Allen Carlisle
Submitted by: Amy Pederson
Department: Administration
Approved by: Allen Carlisle, CEO/GM

SUBJECT: AUTHORIZATION FOR REMOTE TELECONFERENCE PUBLIC MEETINGS IN ACCORDANCE WITH ASSEMBLY BILL 361

RECOMMENDATION(S):

Make findings that the Governor's Proclamation of a State of Emergency remains in effect, state and local officials continue to impose or recommend social distancing due to an increase in COVID cases, and authorize remote teleconference meetings for Padre Dam's legislative bodies pursuant to Brown Act provisions enacted by AB 361.

ALTERNATIVE(S):

None recommended; not implementing AB 361 would result in the requirement to adhere to previous Brown Act provisions that include providing the location of any Board Member teleconferencing on the agenda and posting the agenda at their publicly accessible teleconference site.

ATTACHMENT(S):

None

FUNDING:

Requested amount: n/a

Budgeted amount:

Are funds available? ☐ Yes ☐ No

Project cost to date:

PRIOR BOARD/COMMITTEE CONSIDERATION: November 17, 2021 and January 19, 2022 – The Board made finding authorizing continued use of remote teleconference public meetings.

STRATEGIC PLAN IMPLEMENTATION:

This agenda item is consistent with the District's Strategic Plan and meets one or more of the following Strategic Goals: Provide safe, reliable water, recycled water and sewer services; Ensure fiscal health and competitively sustainable rates; Enhance customer communications and education; Increase water, wastewater and energy independence; Maintain workforce excellence; Expand park and recreation opportunities.

Reviewed by:

Dept Head ☒
Finance ☐
Legal Counsel ☒
Standard Form ☐

Action Required:

Motion ☒
Resolution ☐
Ordinance ☐
None ☐

Policy Updates:

Rules & Regulations ☐
Standard Practices & Policies ☐

Action Taken:

As Recommended _____
Reso/Ord. No. _____
Other _____

EXECUTIVE SUMMARY:

This is a monthly item on the consent agenda for the Board to consider making the required findings imposed by AB 361 in order to continue to allow virtual or hybrid (virtual and in person) public meetings for the next 30 days without the need to comply with the Brown Act's "pre-pandemic" teleconferencing requirements.

The Governor's proclaimed COVID-19 State of Emergency remains in effect, and due to the rising number of COVID cases and continued threats to health and safety posed by indoor meetings/gatherings, state and local health officials continue to recommend or require social distancing. Additionally, on January 5, 2022, as a proactive measure to ensure continuity of service and protect the health and safety of our employees, Board members and community, the CEO/General Manager, reinstated modified work protocols taken at the onset of the pandemic, which among other items, included closing the District's Customer Service Center to the public and requiring all public meetings return to virtual meetings only for the time being.

Therefore, staff recommends the Board make findings that the Governor-declared State of Emergency remains in effect and state and local officials continue to impose or recommend social distancing, and authorize remote teleconference meetings for Padre Dam's legislative bodies pursuant to Brown Act provisions enacted by AB 361.

DISCRIPTION:

As the COVID-19 pandemic has evolved, so has the legislation governing public meetings (Board and Committee meetings) subject to the Brown Act. Beginning in March 2020, Governor Newsom issued a series of Executive Orders in an effort to contain the spread of the COVID-19 virus. These Executive Orders (N-25-20, N-29-20, N-35-20) collectively modified certain requirements of the Brown Act and expired on September 30, 2021.

Assembly Bill (AB) 361 was passed and, effective October 1, 2021, amended the Brown Act to allow public agencies to continue conducting virtual/remote meetings without the need to comply with all of the "pre-pandemic" teleconferencing requirements so long as the following conditions are met:

- There is a gubernatorial proclaimed state of emergency.
- There are state or local measures to promote or require social distancing.
- The agenda must include the meeting link or dial-in for public access.
- Members of the public must be allowed to address the Board in real-time during the meeting.
- Public comments can no longer be required to be submitted in advance.
- If technical problems arise that result in the public's access being disrupted, the legislative body may not take any vote or other official action until the technical disruption is corrected and public access is restored.
- The Board must adopt findings every 30 days that 1) the Board has reconsidered the circumstances of the state of emergency and 2) the state of emergency continues to directly impact the ability of the members to meet safely in person or state or local officials continue to impose or recommend measures to promote social distancing.

The provisions enacted by AB 361 providing flexibility to meet remotely during a proclaimed emergency will sunset on January 1, 2024.

Padre Dam's Board last adopted the required findings at its January 19, 2022 meeting and must do so again at its February 16 meeting in order to continue to meet remotely under modified Brown Act requirements for the next 30 days.

Currently the Governor-declared State of Emergency remains in effect, and due to the rising number of COVID cases and continued threats to health and safety posed by indoor meetings/gatherings, state and local health officials continue to recommend or require social distancing. Additionally, as a proactive measure to ensure continuity of service and protect the health and safety of our employees, Board members and community, the District continues to utilize modified work protocols taken at the onset of the pandemic, which among other items, includes closing the District's Customer Service Center to the public and requiring all public meetings return to virtual meetings only for the time being.

Therefore, staff recommends the Board make findings that the Governor's Proclamation of a State of Emergency remains in effect and state and local officials continue to impose or recommend social distancing, and authorize remote teleconference meetings for Padre Dam's legislative bodies pursuant to Brown Act provisions enacted by AB 361.

RECOMMENDATION(S):

Make findings that the Governor's Proclamation of a State of Emergency remains in effect and state and local officials continue to impose or recommend social distancing, and authorize remote teleconference meetings for Padre Dam's legislative bodies pursuant to Brown Act provisions enacted by AB 361.



PADRE DAM

Municipal Water District

BOARD AGENDA REPORT

Meeting Date: 02-16-2022
Dept. Head: Allen Carlisle
Submitted by: Dennis Lamb
Department: Engineering
Approved by: Allen Carlisle, CEO/GM

SUBJECT: CONSIDERATION OF RESOLUTION SUPPORTING THE CITY OF SANTEE'S RESOLUTION OF APPLICATION REQUESTING THAT THE LOCAL AGENCY FORMATION COMMISSION (LAFCO) OF THE COUNTY OF SAN DIEGO INITIATE PROCEEDINGS FOR THE WESTON BOUNDARY CLEANUP REORGANIZATION

RECOMMENDATION(S):

Adopt Resolution Supporting the City of Santee's Resolution of Application Requesting that LAFCO Initiate Proceedings for the Weston Boundary Cleanup Reorganization ("Resolution of Support").

ALTERNATIVE(S):

Do not adopt a Resolution of Support.

ATTACHMENT(S):

1. Padre Dam Resolution Supporting the City of Santee's Application Requesting the Local Agency Formation Commission of the County of San Diego Initiate Proceedings for the Weston Boundary Cleanup Reorganization
2. City of Santee Resolution of Application Requesting the Local Agency Formation Commission of the County of San Diego Initiate Proceedings for the Weston Boundary Cleanup Reorganization

FUNDING:

Requested amount: n/a

Budgeted amount:

PRIOR BOARD/COMMITTEE CONSIDERATION:

October 16, 2013 Board meeting: The Board adopted Resolution-2013-32 approving an Annexation Agreement related to the Castlerock Subdivision (now known as Weston) between City of Santee, Padre Dam, San Diego and Pardee Homes; and adopted Resolution 2013-33 in Support of the City of Santee's LAFCO Application for Reorganization. April 15, 2020 Board meeting: The Board adopted Resolution 2020-13 adopting new Division Boundaries to include the Weston Subdivision.

STRATEGIC PLAN IMPLEMENTATION:

This agenda item is consistent with the District's Strategic Plan & meets one or more of the following Strategic Goals: Provide safe, reliable water, recycled water and sewer services; Ensure fiscal health and competitively sustainable rates; Enhance customer communications and education; Increase water, wastewater and energy independence; Maintain workforce excellence; Expand park and recreation opportunities.

Reviewed by:	Action Required:	Policy Updates:	Action Taken:
Dept Head <input checked="" type="checkbox"/>	Motion <input type="checkbox"/>	Rules & Regulations <input type="checkbox"/>	As Recommended _____
Finance <input type="checkbox"/>	Resolution <input checked="" type="checkbox"/>	Standard Practices <input type="checkbox"/>	Reso/Ord. No. _____
Legal <input checked="" type="checkbox"/>	Ordinance <input type="checkbox"/>	& Policies <input type="checkbox"/>	Other _____
Standard Form <input checked="" type="checkbox"/>	None <input type="checkbox"/>		

EXECUTIVE SUMMARY:

In 2013, Padre Dam Municipal Water District ("Padre Dam"), the City of Santee ("Santee"), the City of San Diego ("San Diego"), and Pardee Homes (now Tri Pointe Homes), entered into an Annexation Agreement to set forth the terms and conditions upon which a residential development project property consisting of approximately 108.72 acres for the proposed "Castlerock" Project, a development now known as Weston ("Weston Property"), would be detached from San Diego and annexed into Padre Dam, Santee, and County Service Areas ("CSAs") 69 and 135. Pursuant to the Annexation Agreement, on October 9, 2013, Santee adopted Resolution No. 088-2013 initiating proceedings pursuant to the Cortese Knox Hertzberg Local Government Reorganization Act of 2000 (Gov. Code, § 56000 et seq.) (the "Act"), for the above-mentioned changes of organization, and Padre Dam subsequently adopted a resolution of support. On November 2, 2015, LAFCO approved the reorganization.

During the development process, it was determined that there were discrepancies between the tentative map included in the Annexation Agreement, and the annexation map ultimately adopted by LAFCO, specifically, the vernal pool lot that was to remain in San Diego was unintentionally annexed into Santee and Padre Dam, and portions of Weston Road and Trailridge Avenue were split between Santee/Padre Dam, and San Diego. A corrective effort is needed to correct inadvertent boundary description errors, and Padre Dam, in collaboration with Tri Pointe Homes, Santee, San Diego, the County of San Diego, the Santee School District, and SDG&E, has been working to correct the boundary discrepancy issue to ensure all boundaries are accurate. In order to adjust the boundaries, Santee plans to submit to LAFCO an application for reorganization.

Padre Dam can demonstrate its support for the boundary corrections and streamline the LAFCO procedures by adopting the attached Resolution of Support (Attachment 1). This Resolution of Support, along with the Santee Resolution of Application (Attachment 2), contain details and a map pertinent to the boundary corrections.

DESCRIPTION:

On or about August 26, 2013, Padre Dam, Santee, San Diego, and Pardee Homes (now Tri Pointe Homes), entered into an Annexation Agreement to set forth the terms and conditions upon which the Weston Property would be detached from San Diego and annexed into Santee, Padre Dam, and CSAs 69 and 135.

Pursuant to the Annexation Agreement, on October 9, 2013, Santee adopted Resolution No. 088-2013 initiating proceedings pursuant to the Act, for the above-mentioned changes of organization, and on October 16, 2013, Padre Dam adopted a resolution supporting the changes of organization.

On or about November 2, 2015, LAFCO approved "The Castlerock Reorganization (City of Santee) RO13-99," a reorganization that accomplished the annexations and detachments as well as related sphere of influence amendments involving Padre Dam, Santee, San Diego, and CSAs 69 and 135 ("Original Reorganization").

The Weston Project is now fully developed. During the development process, it was determined that there were discrepancies between the tentative map included in the Annexation Agreement, and the annexation map ultimately adopted by LAFCO. Specifically, the vernal pool lot that was to remain in San Diego was unintentionally annexed into Santee and Padre Dam, and portions of Weston Road and Trailridge Avenue were split between Padre Dam/Santee, and San Diego.

A corrective effort is needed to resolve these inadvertent boundary description errors in order to adhere to conservation easements, to ensure that the portions of Weston Road and Trailridge Avenue that are split between jurisdictions will be annexed to and become a part of Padre Dam's and Santee's boundaries and sphere of influence, and that the vernal pools and other portions of the San Diego Multi-Habitat Planning Areas are detached from Padre Dam and Santee, and annexed back into San Diego's boundaries and sphere of influence.

The territory within the boundary correction areas is uninhabited, and no residential development will occur within the boundary correction areas.

As mentioned above, in order to correct the boundary discrepancies, an application for reorganization must be submitted to and approved by LAFCO. Because Santee was the applicant for the Original Reorganization, Santee will be the applicant for this new reorganization. The application will seek LAFCO approval of the following organization and jurisdictional changes:

- Annexation of certain territory (approximately 3.8 acres) to San Diego, with concurrent detachment from Padre Dam, Santee, CSA 69 and CSA 135, as indicated on the map attached as Exhibit "A" to the Resolution of Support;
- Annexation of certain territory (approximately 1.5 acres) to Padre Dam, Santee, CSA 69 and CSA 135, with concurrent detachment from San Diego, as indicated on the map attached as Exhibit "A" to the Resolution of Support;
- Amendments to the applicable spheres of influence of Padre Dam, Santee, San Diego, CSA 69 and 135 to reflect the above described detachments and annexations.

Together, the above changes of organization and sphere of influence adjustments are referred to as the "Weston Boundary Cleanup Reorganization."

No new or additional sewer service, water service, fire protection service, or police protection service is requested or required by the Weston Boundary Cleanup Reorganization. The Annexation Agreement includes a Plan for Providing Services that addresses all of these components, and that Plan for Providing Services still applies.

In accordance with the California Environmental Quality Act (CEQA), an Environmental Impact Report (EIR) for the Weston Project, including the Annexation Agreement, was certified by San Diego in 2013, and considered by Padre Dam and Santee as responsible agencies (See Final Program EIR, SCH NO. 2004061029, for the Residential Development Project (as defined in Sections 2.3 and 3.34 of the Annexation Agreement) certified by San Diego pursuant to CEQA, Public Resources Code Section 21000 et seq. (CEQA), technical studies in support of the EIR, CEQA Findings of Fact, Statement of Overriding Considerations, and the Mitigation Monitoring and Reporting Program (See Annexation Agreement Section 3.14)). The Weston Boundary Cleanup Reorganization is solely a boundary clarification consistent with the project analyzed in the EIR and approved in 2013. No further CEQA review is required.

Staff recommends the Board adopt the attached Resolution of Support, which formally demonstrates Padre Dam's support for Santee's request that LAFCO initiate proceedings for the Weston Boundary Cleanup Reorganization and authorizes staff to submit to LAFCO the Resolution of Support. Adoption of the Resolution of Support would also streamline the LAFCO procedures for consideration of the Weston Boundary Cleanup Reorganization. This is because the Act includes a mechanism and timeline to permit a special district to request termination of proceedings involving annexations into the district if there are financial or service concerns, as defined in the Act—adoption of the Resolution of Support by the Board

and submission to LAFCO permits LAFCO to proceed with immediately processing Santee's proposal. Santee's Resolution of Application is included as Attachment 2. San Diego has already provided a letter of support for the Weston Boundary Cleanup Reorganization, and a resolution of support is planned to be considered by Santee School District. The full boundary clean-up is expected to be completed in approximately one year.

RECOMMENDATION(S):

Adopt Resolution Supporting the City of Santee's Resolution of Application Requesting that LAFCO Initiate Proceedings for the Weston Boundary Cleanup Reorganization.

RESOLUTION NO. 2022-__**RESOLUTION OF THE BOARD OF DIRECTORS OF PADRE DAM
MUNICIPAL WATER DISTRICT SUPPORTING THE CITY OF SANTEE'S
RESOLUTION OF APPLICATION REQUESTING THAT THE LOCAL AGENCY
FORMATION COMMISSION OF THE COUNTY OF SAN DIEGO INITIATE
PROCEEDINGS FOR THE
WESTON BOUNDARY CLEANUP REORGANIZATION**

WHEREAS, on or about August 26, 2013, the City of San Diego ("San Diego"), City of Santee ("Santee"), Padre Dam Municipal Water District ("Padre Dam") and Pardee Homes, Inc. ("Pardee") ("Parties") entered into an Annexation Agreement ("Annexation Agreement") to set forth the terms and conditions upon which a residential development project property consisting of approximately 108.72 acres for the proposed "Castlerock" Project, a development now known as Weston ("Property"), would be detached from San Diego and annexed into Santee, Padre Dam, and County Service Areas ("CSAs") 69 and 135 ("Original Reorganization"); and

WHEREAS, on October 9, 2013, Santee adopted Resolution No. 088-2013 initiating proceedings for the Original Reorganization pursuant to the Cortese Knox Hertzberg Local Government Reorganization Act of 2000 (Gov. Code, § 56000 et seq.) (the "Act"), and on October 16, 2013, Padre Dam adopted a resolution supporting the Original Reorganization; and

WHEREAS, on November 2, 2015, the Local Agency Formation Commission of the County of San Diego ("LAFCO") approved the Original Reorganization, accomplishing certain annexations and detachments as well as related sphere of influence amendments involving Santee, San Diego, Padre Dam, and CSAs 69 and 135; and

WHEREAS, during the development process for the Property, it was determined that a corrective effort would be needed to resolve discrepancies between the tentative map included in the Annexation Agreement, and the annexation map ultimately adopted by LAFCO as part of the Original Reorganization. Specifically, the vernal pool lot that was to remain in San Diego was unintentionally annexed into Santee and Padre Dam, and portions of Weston Road and Trailridge Avenue were split between Santee / Padre Dam, and San Diego; and

WHEREAS, as a result of these discrepancies, a corrective effort is needed to resolve inadvertent boundary description errors in order to adhere to conservation easements, to ensure that the portions of Weston Road and Trailridge Avenue that are split between jurisdictions will be annexed to and become a part of Santee and Padre Dam's boundaries and sphere of influence, and that the vernal pools and other portions of the San Diego Multi-Habitat Planning Areas are detached from Santee and Padre Dam, and annexed back into San Diego's boundaries and sphere of influence; and

WHEREAS, on January 26, 2022, Santee adopted a Resolution of Application requesting that LAFCO initiate proceedings for a reorganization (the "Weston Boundary Cleanup Reorganization"), that would accomplish the necessary boundary adjustments as indicated on the map attached as Exhibit A; and

WHEREAS, as indicated in Santee's Resolution of Application, the Weston Boundary Cleanup Reorganization would generally include: (1) the detachment of certain territory from San Diego and the annexation of that territory into Santee, Padre Dam, and CSAs 69 and 135, (2) the detachment of certain territory from Padre Dam, Santee, and CSAs 69 and 135 and the annexation of that territory into San Diego, and (3) the amendment of the spheres of influence of Santee, San Diego, Padre Dam, and County Service Areas 69 and 135 to reflect the annexations and detachments; and

WHEREAS, on September 16 and October 1, 2013, San Diego took action to certify the Final Environmental Impact Report ("FEIR"), Findings of Fact and a Statement of Overriding Considerations, approve the project and approve the Annexation Agreement and on October 16, 2013, the Padre Dam Board of Directors adopted Resolution 2013-32 approving the Annexation Agreement and making certain findings under the California Environmental Quality Act ("CEQA"); and

WHEREAS, the Weston Boundary Cleanup Reorganization is solely a boundary clarification consistent with the project analyzed in the FEIR and approved in 2013, therefore no further CEQA review is required for the Weston Boundary Cleanup Reorganization. No new or additional sewer service, water service, fire protection service, or police protection service is requested or required by the Weston Boundary Cleanup Reorganization; and

WHEREAS, Padre Dam Municipal Water District supports the Weston Boundary Cleanup Reorganization contemplated by Santee's Resolution of Application. The purpose of this Resolution is to meet the condition set forth in Government Code section 56857(e).

NOW, THEREFORE, IT IS HEREBY RESOLVED, DETERMINED AND ORDERED, by the Board of Directors of Padre Dam Municipal Water District as follows:

1. The Board of Directors declare that all of the recitals herein contained are true and correct.
2. The Board of Directors hereby finds that, based on the information in Santee's Resolution of Application initiating proceedings under the Act for the Weston Boundary Cleanup Reorganization, the Annexation Agreement, and other information available to the Board, that to the Board's best knowledge and information, no "Financial Concerns" or "Service Concerns," as defined in Government Code section 56857(d), exist that would justify adoption of a resolution requesting termination of the proceedings pursuant to Government Code section 56857(b).
3. The Board of Directors hereby adopts this Resolution in support of the City of Santee's Resolution of Application requesting LAFCO to initiate proceedings for the Weston Boundary Cleanup Reorganization.
4. The Board of Directors finds that because an EIR for the Weston project, including the Annexation Agreement, was certified by San Diego in 2013 and considered by Santee and Padre Dam as responsible agencies (See, Final Program EIR, SCH NO. 2004061029, for the Residential Development Project (as defined in Sections 2.3 and 3.34 of the Annexation Agreement) certified by San Diego pursuant to CEQA, Public Resources Code

section 21000 et seq. (CEQA), technical studies in support of the EIR, CEQA Findings of Fact, Statement of Overriding Considerations, and the Mitigation Monitoring and Reporting Program (See, Annexation Agreement Section 3.14.)), and the proposed Weston Boundary Cleanup Reorganization is solely a boundary clarification consistent with the project analyzed in the EIR and approved in 2013, no further CEQA review is required for the Weston Boundary Cleanup Reorganization.

5. The Board of Directors hereby directs staff to take any action necessary to ensure submission of this Resolution to LAFCO.

6. This Resolution shall take effect upon adoption.

PASSED AND ADOPTED at the Regular Board Meeting of the Board of Directors of Padre Dam Municipal Water District held on February 16, 2022 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Bill Pommering, Board President

ATTEST:

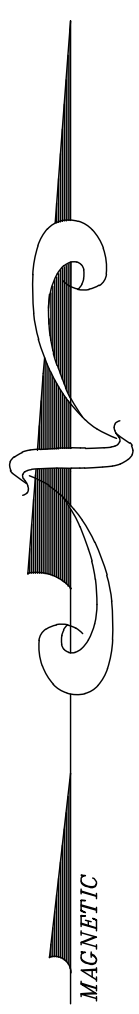
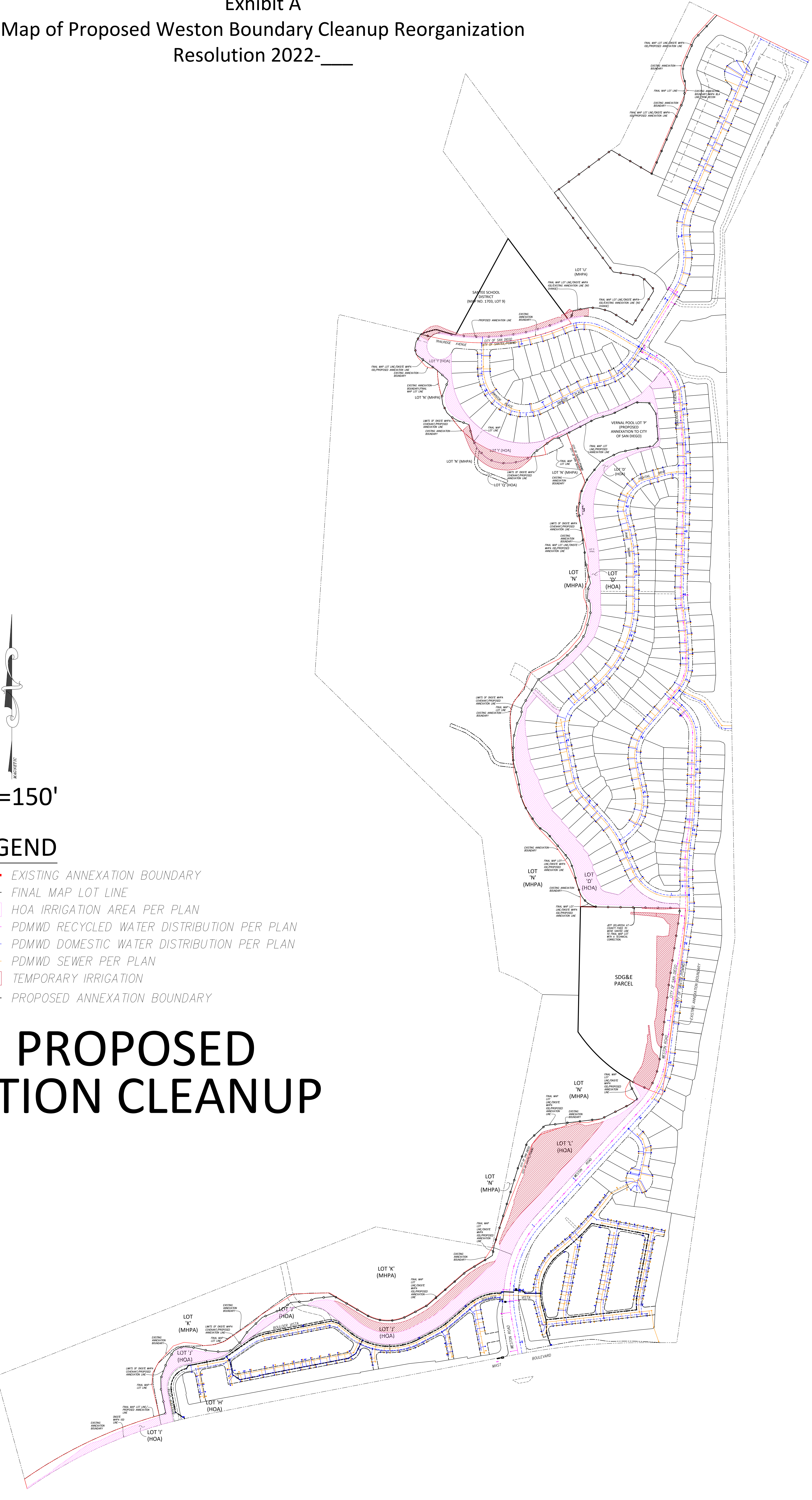
Amy Pederson, Board Secretary

Exhibit A: Map of Proposed Weston Boundary Cleanup Reorganization

Exhibit A

Map of Proposed Weston Boundary Cleanup Reorganization

Resolution 2022-__



1"=150'

LEGEND

- EXISTING ANNEXATION BOUNDARY
- FINAL MAP LOT LINE
- HOA IRRIGATION AREA PER PLAN
- PDMWD RECYCLED WATER DISTRIBUTION PER PLAN
- PDMWD DOMESTIC WATER DISTRIBUTION PER PLAN
- PDMWD SEWER PER PLAN
- TEMPORARY IRRIGATION
- PROPOSED ANNEXATION BOUNDARY

WESTON PROPOSED ANNEXATION CLEANUP

This map is intended for the sole use of Tri Pointe Homes. It should not be relied on as an accurate representation of existing or future development or land uses. Any references on this map to development "Coming Soon" mean development that is currently proposed. Tri Pointe Homes cannot offer any assurance about any such ultimate development. Tri Pointe Homes reserves the right to change the size, design, configuration and location of unsold lots and the common areas, including, but not limited to streets, open space, landscape areas and access facilities, in that portion of the project depicted which it owns. Tri Pointe Homes further reserves the right to change its marketing plan at any time to a different plan, which may involve changes in the size of homes to be built, the number and types of rooms in those homes, standard and optional amenities for those homes, and the architectural style of the homes. To the extent that the map includes property not owned by Tri Pointe Homes, Tri Pointe Homes has no control over the development or other use of such land. Likewise, if Tri Pointe Homes sells any property which it owns, it will no longer have control over the development or use of such land. Conversely, Tri Pointe Homes may acquire land depicted on this map which it currently does not own. For current information regarding development within this area, consult the appropriate governing agency exercising jurisdiction or control over the subject matter of inquiry.

RESOLUTION NO. 007-2022**A RESOLUTION OF APPLICATION BY THE CITY COUNCIL OF THE CITY OF SANTEE, CALIFORNIA, REQUESTING THAT THE LOCAL AGENCY FORMATION COMMISSION OF THE COUNTY OF SAN DIEGO INITIATE PROCEEDINGS FOR THE WESTON BOUNDARY CLEANUP REORGANIZATION**

WHEREAS, on or about August 26, 2013, the City of Santee ("Santee"), the City of San Diego ("San Diego"), Padre Dam Municipal Water District ("Padre Dam"), and Pardee Homes (now Tri Pointe Homes), entered into an Annexation Agreement to set forth the terms and conditions upon which a residential development project property consisting of approximately 108.72 acres for the proposed "Castlerock" Project, a development now known as Weston ("Weston Property"), would be detached from San Diego and annexed into Santee, Padre Dam, and County Service Areas ("CSAs") 69 and 135; and

WHEREAS, pursuant to the Annexation Agreement, on October 9, 2013, Santee adopted Resolution No. 088-2013 initiating proceedings pursuant to the Cortese Knox Hertzberg Local Government Reorganization Act of 2000 (Gov. Code, § 56000 et seq.) (the "Act"), for the above-mentioned changes of organization; and

WHEREAS, on November 2, 2015, the Local Agency Formation Commission of the County of San Diego ("LAFCO") approved "The Castlerock Reorganization (City of Santee) RO13-99", a reorganization that accomplished the annexations and detachments as well as related sphere of influence amendments involving Santee, San Diego, Padre Dam, and CSAs 69 and 135 ("Original 2015 Reorganization"); and

WHEREAS, the Weston Property has been fully developed; and

WHEREAS, during the development process, it was determined that there were discrepancies between the tentative map included in the Annexation Agreement, and the annexation map ultimately adopted by LAFCO; specifically, the vernal pool lot that was to remain in San Diego was unintentionally annexed into Santee and Padre Dam, and portions of Weston Road and Trailridge Avenue were split between Santee / Padre Dam, and San Diego; and

WHEREAS, a corrective effort is needed to resolve inadvertent boundary description errors in order to adhere to conservation easements, to ensure that the portions of Weston Road and Trailridge Avenue that are split between jurisdictions will be annexed to and become a part of Santee and Padre Dam's boundaries and sphere of influence, and that the vernal pools and other portions of the San Diego Multi-Habitat Planning Areas are detached from Santee and Padre Dam, and annexed back into San Diego's boundaries and sphere of influence; and

WHEREAS, Santee, in collaboration with Tri Pointe Homes, Padre Dam, San Diego, the County of San Diego, the Santee School District, and SDG&E, has been working to correct the boundary discrepancy issue to ensure all boundaries are accurate; and

WHEREAS, the territory within the boundary correction areas is uninhabited, and no residential development will occur within the boundary correction areas; and

WHEREAS, in accordance with the California Environmental Quality Act (CEQA), an Environmental Impact Report (EIR) for the Weston project, including the Annexation Agreement, was certified by San Diego in 2013, and considered by Santee and Padre Dam as responsible agencies. (See, Final Program EIR SCH NO. 2004061029, for the Residential Development Project (as defined in Sections 2.3 and 3.34 of the Annexation Agreement) certified by San Diego pursuant to CEQA, Public Resources Code section 21000 et seq. (CEQA), technical studies in support of the EIR, CEQA Findings of Fact, Statement of Overriding Considerations, and the

RESOLUTION NO. 007-2022

Mitigation Monitoring and Reporting Program. (See, Annexation Agreement Section 3.14.)). The proposed reorganization is solely a boundary clarification consistent with the project analyzed in the EIR and approved in 2013; and

WHEREAS, the proposed annexations and detachments are not consistent with the spheres of influence of Santee, San Diego, Padre Dam, CSA 69 or CSA 135; and

WHEREAS, Santee desires to initiate proceedings pursuant to the Act seeking approval of the following organization and jurisdictional changes:

- Annexation of certain territory (approximately 3.8 acres) to San Diego, with concurrent detachment from Santee, Padre Dam, CSA 69 and CSA 135, as indicated on the map attached as Exhibit A;
- Annexation of certain territory (approximately 1.5 acres) to Santee, Padre Dam, CSA 69 and CSA 135, with concurrent detachment from San Diego, as indicated on the map attached as Exhibit A;
- Amendments to the applicable spheres of influence of Santee, San Diego, Padre Dam, CSA 69 and 135 to reflect the above described detachments and annexations.

Together, the above changes of organization and sphere of influence adjustments are hereafter referred to as the “Weston Boundary Cleanup Reorganization;” and

WHEREAS, the Annexation Agreement included a Plan for Providing Services as required by Government Code Section 56653, which still applies; and

WHEREAS, no new or additional sewer service, water service, fire protection service, or police protection service is requested or required by the Weston Boundary Cleanup Reorganization; and

WHEREAS, no further CEQA review is required for the Weston Boundary Cleanup Reorganization.

NOW, THEREFORE, BE IT RESOLVED, by the City Council of the City of Santee, California, that the City of Santee hereby requests LAFCO to initiate proceedings for the Weston Boundary Cleanup Reorganization as supported by the following findings and subject to the following terms and conditions:

SECTION 1. Effective Date of Reorganization. In accordance with Government Code section 57202(a), the effective date of the Weston Boundary Cleanup Reorganization shall be upon the date of recordation of the Certificate of Completion with the Recorder’s Office of the County of San Diego, which Santee desires to occur as soon after LAFCO approval of the Weston Boundary Cleanup Reorganization as is reasonably possible (“Reorganization Effective Date”).

SECTION 2. Sphere of Influence Amendments Effective Date. The Sphere of Influence Amendments Effective Date shall be the date of LAFCO’s approval of the Weston Boundary Cleanup Reorganization.

SECTION 3. Processing of and Services to the Weston Project After the Reorganization Effective Date. The Annexation Agreement outlines the roles of San Diego, Santee, Padre Dam, and Tri Pointe Homes. The obligations set forth in the Annexation Agreement, and the Plan for Providing Services included in the Original 2015 Reorganization remain the same.

RESOLUTION NO. 007-2022

SECTION 4. Provision of Municipal Services to the Annexation Property. The Plan for Providing Services submitted with the Original 2015 Reorganization remains unchanged.

SECTION 5. Additional Terms and Conditions. The City Council acknowledges that LAFCO may impose additional terms and conditions on the Weston Boundary Cleanup Reorganization beyond those set forth in this Resolution of Application. Santee, San Diego, Padre Dam, and Tri Pointe Homes shall reasonably consider such terms and conditions and support them unless any such LAFCO imposed term or condition is in fundamental conflict with the terms and conditions stated in this Resolution of Application or with the Application.

SECTION 6. CEQA Compliance. The City Council finds that because an EIR for the Weston project, including the Annexation Agreement, was certified by San Diego in 2013 and considered by Santee and Padre Dam as responsible agencies (See, Final Program EIR, SCH NO. 2004061029, for the Residential Development Project (as defined in Sections 2.3 and 3.34 of the Annexation Agreement) certified by San Diego pursuant to CEQA, Public Resources Code section 21000 et seq. (CEQA), technical studies in support of the EIR, CEQA Findings of Fact, Statement of Overriding Considerations, and the Mitigation Monitoring and Reporting Program (See, Annexation Agreement Section 3.14.)), and the proposed Weston Boundary Cleanup Reorganization is solely a boundary clarification consistent with the project analyzed in the EIR and approved in 2013, no further CEQA review is required for the Weston Boundary Cleanup Reorganization.

BE IT FURTHER RESOLVED by the City Council of the City of Santee, California, that this Resolution of Application is hereby approved and adopted and LAFCO is hereby requested to initiate proceedings for the proposed Weston Boundary Cleanup Reorganization that includes the territory as described in Exhibit "A," according to the terms and conditions stated above and, in the manner, provided by the Cortese Knox Hertzberg Local Government Reorganization Act of 2000. The City Manager is hereby directed file a certified copy of this Resolution of Application together with the required LAFCO application document, once finalized, applicable LAFCO fees and/or charges, and other documents with the Executive Officer of LAFCO.

ADOPTED by the City Council of the City of Santee, California, at a Regular Meeting thereof held this 26th day of January, 2022, by the following roll call vote to wit:

AYES: HALL, KOVAL, MCNELIS, MINTO, TROTTER

NOES: NONE

ABSENT: NONE

APPROVED:



JOHN W. MINTO, MAYOR

ATTEST:



ANNETTE ORTIZ, CMC, CITY CLERK

EXHIBIT A – Map of Proposed Weston Boundary Cleanup Reorganization

EXHIBIT A

MAP OF PROPOSED WESTON BOUNDARY CLEANUP REORGANIZATION

[Attached behind this cover page]



EXISTING ANNEXATION BOUNDARY
FINAL MAP LOT LINE
HOA IRRIGATION AREA PER PLAN
PDMWD RECYCLED WATER DISTRIBUTION PER PLAN
PDMWD DOMESTIC WATER DISTRIBUTION PER PLAN
PDMWD SEWER PER PLAN
TEMPORARY IRRIGATION
PROPOSED ANNEXATION BOUNDARY

WESTON PROPOSED ANNEXATION CLEANUP

[illegible]



BOARD AGENDA REPORT

Meeting Date: 02-16-2022
Dept. Head: Karen Jassoy
Submitted by: Karen Jassoy
Department: Finance
Approved by: Allen Carlisle, CEO/GM

SUBJECT: WATERSMART TITLE XVI WATER RECLAMATION AND REUSE PROJECTS GRANT

RECOMMENDATION(S):

Adopt Resolution authorizing staff to submit an application for the WaterSmart Title XVI Water Reclamation and Reuse Projects Grant (WIIN).

ALTERNATIVE(S):

None recommended.

ATTACHMENT(S):

1. Resolution authorizing staff to submit an application for the WaterSmart Title XVI Water Reclamation and Reuse Projects Grant (WIIN)
2. Notice of Funding Opportunity R22AS00115 for WIIN Grant
3. Phase II Project Feasibility Study, East County AWP Project
4. Agreement between the East County AWP JPA and Woodard and Curran

FUNDING:

Requested amount: None; the cost of the WIIN application is an expense of the East County AWP JPA
Budgeted amount: N/A
Are funds available? ☐ Yes ☐ No
Project cost to date:

PRIOR BOARD/COMMITTEE CONSIDERATION:

STRATEGIC PLAN IMPLEMENTATION:

This agenda item is consistent with the District's Strategic Plan and meets one or more of the following Strategic Goals: Provide safe, reliable water, recycled water and sewer services; Ensure fiscal health and competitively sustainable rates; Enhance customer communications and education; Increase water, wastewater and energy independence; Maintain workforce excellence; Expand park and recreation opportunities.

Reviewed by:		Action Required:		Policy Updates:		Action Taken:
Dept Head	<input checked="" type="checkbox"/>	Motion	<input type="checkbox"/>	Rules & Regulations	<input type="checkbox"/>	As Recommended _____
Finance	<input checked="" type="checkbox"/>	Resolution	<input checked="" type="checkbox"/>	Standard Practices	<input type="checkbox"/>	Reso/Ord. No. _____
Legal Counsel	<input type="checkbox"/>	Ordinance	<input type="checkbox"/>	& Policies		Other _____
Standard Form	<input type="checkbox"/>	None	<input type="checkbox"/>			

EXECUTIVE SUMMARY:

On January 14, 2022, the U.S. Bureau of Reclamation (USBR) released a Notice of Funding Opportunity (NOFO) for project sponsors eligible under the Water Infrastructure Improvements for the Nation (WIIN) Act. Based on an approved feasibility study, The East County Advanced Water Purification (AWP) Project was determined to be eligible for funding under this Program. The USBR prefers that Padre Dam, in its role as administrator for the East County AWP JPA, submit the application and act as the contract agency for the WIIN grant. The grant application requires a resolution from the contracting agency's Board of Directors authorizing the submission of an application. Consequently staff is requesting that the Padre Dam Board approve a resolution authorizing its staff to apply for the WIIN grant on behalf of the East County AWP JPA.

BACKGROUND

The Planning Study for the East County AWP Project (Project), completed in January 2016, envisioned implementing the Project in three phases:

- Phase 1: Expansion of the Ray Stoyer WRF to 6 mgd and production of 3.5 mgd of product water for potable reuse.
- Phase 2: Expanding the WRF treatment capacity by additional 9 mgd to a total 15 mgd to handle existing available wastewater flows in East County and increasing the product water generation capacity by another 8 mgd to a total 11.5 mgd.
- Phase 3: Expanding the treatment facilities as needed to handle the projected future flows in the service area and generate additional product water.

As the Project developed, Phases 1 and 2 were combined to realize economies of scale and construction efficiencies. However, the terms *Phase 1* and *Phase 2* are still being used for the purposes of differentiating the scope of projects for different grant funding applications.

Title XVI Congressionally Authorized Projects

The USBR's Title XVI Water Reclamation and Reuse Program (Title XVI), authorized in 1992, provides financial and technical assistance to local water agencies for the planning, design and construction of water reclamation and reuse projects. Funding under this program is only available for congressionally authorized Title XVI projects. Components of the East County AWP Project (specifically *Phase 1*) were approved as a San Diego Area "authorized project" eligible for grant monies under this program.

Eligibility for Title XVI program does not entitle a project to Federal funding. Instead the USBR releases NOFOs for the Title XVI grant annually if funds are appropriated by Congress. Applications are accepted from approved projects and available funds are allocated among successful applicants. Since 2016, Woodard & Curran (W&C) has assisted Padre Dam in the preparation of five Title XVI grant applications for the East County AWP Phase 1 Project; these efforts have successfully secured \$20M.

The Water Infrastructure Improvements for the Nation Act (WIIN)

The Water Infrastructure Improvements for the Nation Act (WIIN) was enacted in December 2016. WIIN includes amendments to the USBR's Title XVI Program allowing new water recycling projects to be eligible to receive Federal funding. Similar to the Title XVI program, the WIIN grant application requires a feasibility study to determine grant eligibility. In 2019, W&C was engaged to prepare a feasibility study for the East County AWP Project components not included in the initial Title XVI grant program. This new

“project” (referred to as the *Phase 2 Project*) was determined to be eligible to apply for grant funding under the WIIN program.

Similar to the Title XVI grant, USBR releases periodic NOFOs for the WIIN program inviting eligible project proponents to send an application for funding consideration. The WIIN program provides up to 25 percent of the total cost of a project’s planning, design, and/or construction that has either already been completed or will be conducted before September 30, 2025, up to a maximum of \$30 million per project. W&C has assisted Padre Dam in the preparation of one WINN grant applications for the East County AWP Phase 2 Project; their efforts successfully secured \$1.7M in 2021.

Application for WIIN Grant

On January 14, 2022 the USBR released its 2022 notice of funding opportunity (NOFO) for the WIIN grant. It is anticipated that this NOFO will result in approximately 10 to 30 awards, depending on the amount requested by each applicant. Applications, which are due March 16, 2022, require a resolution authorizing the submission of the application.

As mentioned above, East County AWP *Phase 2* project was determined to be eligible to apply for WIIN funds based on a feasibility study submitted in 2019. As the JPA’s contracting agency for this grant, the required resolution needs to be approved by the Padre Dam Board of Directors. W&C, who helped develop successful applications for Title XVI and WINN, is engaged by the JPA to help prepare future applications for WIIN; the existing contract is with the JPA and is a JPA expense rather than a District expense.

Highlights for the WIIN Grant application include:

- Due date: March 16, 2022 at 4 pm
- Program Funding: Allocate available fiscal year 2022 enacted appropriations for Title XVI projects authorized under section 4009(c) of the WIIN Act and funding available under the Bipartisan Infrastructure Law (BIL) (anticipate 10-30 awards)
- Applicants that are identified for BIL funding will need to meet additional requirements, including Buy American and Wage Rate Requirements (Davis-Bacon Act).
- Award Ceiling for any recipient: Increased to \$30M (typically over multiple application periods)
- Cost Share: 25% Reclamation/75% Client Share
- Funding for planning, design and construction completed (from date of Reclamation’s review findings of the Feasibility Study) or will be conducted before September 23, 2025.
- Eligible Applicants: Sponsors of Water Recycling Projects with a completed and Reclamation approved Title XVI Feasibility Study.
- Evaluation Criterion (points):
 - Water Supply (35)
 - Environmental and Water Quality (18)
 - Economic Benefits (25)
 - Reclamations Obligations & Benefits to Rural/Economically Distressed Communities (12)
 - Watershed Perspective (10)

RECOMMENDATION(S):

Adopt resolution authorizing staff to submit an application for the WaterSmart Title XVI Water Reclamation and Reuse Projects Grant (WIIN).

RESOLUTION 2022-__**RESOLUTION OF THE BOARD OF DIRECTORS OF
PADRE DAM MUNICIPAL WATER DISTRICT
AUTHORIZING WATERSMART TITLE XVI WATER
RECLAMATION AND REUSE PROJECTS GRANT**

WHEREAS, Padre Dam Municipal Water District (Padre Dam) prepared a Title XVI Feasibility Study for its East County Advanced Water Purification Program – Phase II Project (Project) in 2019, which was reviewed and approved by the U.S. Bureau of Reclamation (Reclamation) resulting in grant eligibility for Reclamation's WaterSMART: Title XVI Water Infrastructure Improvements for the Nation (WIIN) Reclamation and Reuse Program; and

WHEREAS, the United States Bureau of Reclamation (Reclamation) is soliciting applications for WaterSMART: Title XVI WIIN Water Reclamation and Reuse Program per Notice of Funding Opportunity No. R22AS00115; and

WHEREAS, Padre Dam is preparing a grant application under this Program for the Project with an application due date of March 16, 2022; and

WHEREAS, Reclamation has directed applicants to include in its application an official resolution adopted by the applicant's board of directors or governing body verifying 1) the identity of the official with legal authority to enter into an agreement, 2) the board of directors, governing body, or appropriate official who has reviewed and supports the application submitted, 3) the capability of the applicant to provide the amount of funding and/or in-kind contributions specified in the funding plan, and 4) that the applicant will work with Reclamation to meet established deadlines for entering into a grant or cooperative agreement.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Padre Dam Municipal Water District as follows:

1. Padre Dam is authorized to submit the application to Reclamation to obtain Title XVI WIIN Water Reclamation and Reuse Program Funding per Notice of Funding Opportunity No. R22AS00115; and
2. Padre Dam has legal authority to enter into an agreement with Reclamation to receive a grant; and
3. The Board of Directors has reviewed and supports the application that will be submitted; and
4. Padre Dam is able to provide the minimum 75 percent funding match specified in the funding plan for the application; and
5. Padre Dam's CEO/General Manager, or his designee, is hereby authorized and directed to prepare the necessary data, conduct investigations, file such application, and execute a grant agreement with Reclamation in association with this application process.
6. Padre Dam will work with Reclamation to meet established deadlines required for entering into a cooperative agreement to obtain the aforementioned grant funding.

PASSED AND ADOPTED at a regular meeting of the Board of Directors of Padre Dam Municipal Water District held on February 16, 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Board President

ATTEST:

Board Secretary



— BUREAU OF —
RECLAMATION

Notice of Funding Opportunity No. R22AS00115

WaterSMART: Title XVI WIIN Act Water Reclamation and Reuse Projects



Mission Statements

The U.S. Department of the Interior protects and manages the Nation's natural resources and cultural heritage; provides scientific and other information about those resources; and honors its trust responsibilities or special commitments to American Indians, Alaska Natives, and affiliated Island Communities.

The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.

Synopsis

Federal Agency Name:	Department of the Interior, Bureau of Reclamation, Water Resources and Planning Office
Funding Opportunity Title:	WaterSMART: Title XVI WIIN Act Water Reclamation and Reuse Projects
Announcement Type:	Notice of Funding Opportunity (NOFO)
Funding Opportunity Number:	R22AS00115
Catalog of Federal Domestic Assistance (CFDA) Number:	15.504
Dates: (See NOFO Sec. D.4)	Application due date: March 15, 2022 4:00 p.m. Mountain Daylight Time (MDT)
Eligible Applicants: (See NOFO Sec. C.1)	Sponsors of water recycling projects (Project) that have submitted a Feasibility Study for Reclamation review by the date this NOFO is posted and found to meet all of the requirements of Reclamation Manual Release WTR 11-01 no later than April 30, 2022.
Recipient Cost Share: (See NOFO Sec. C.2)	75 percent or more of total Project costs.
Federal Funding Amount: (See NOFO Sec. B.1)	Up to 25 percent of the total cost of planning, design, and/or construction that has either already been completed or will be conducted before September 30, 2025, up to a maximum of \$30 million per project.
Estimated Number of Agreements to be Awarded: (See NOFO Sec. B.1)	Approximately 10 to 30 awards, depending on the amount requested by each applicant and the amount of funding available.

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Application Checklist

The following table contains a summary of the information that you are required to submit with your application.

√	What to submit	Required content	Form or format	When to submit
	Mandatory Federal Forms: Application for Federal Assistance Budget Information Assurances Disclosure of Lobbying Activities	See Sec. D.2.2.1	SF-424, SF-424C, SF-424D, and SF-LLL forms may be obtained at www.grants.gov/web/grants/forms/sf-424-family.html	*
	Title page	See Sec. D.2.2.2	Page 11	*
	Table of contents	See Sec. D.2.2.3	Page 11	*
	Technical proposal:			*
	Executive summary	See Sec. D.2.2.4	Page 11	*
	Project description	See Sec. D.2.2.4	Page 11	*
	Evaluation criteria	See Sec. E.1	Page 25	*
	Environmental and cultural resources compliance	See Sec. D.2.2.5	Page 12	*
	Required permits or approvals	See Sec. D.2.2.6	Page 13	*
	Other Federal Funding	See Sec. D.2.2.7	Page 13	
	Project Budget			*
	Funding Plan and Letters of Commitment	See Sec. D.2.2.8	Page 13	
	Budget Proposal	See Sec. D.2.2.8	Page 15	
	Budget Narrative	See Sec. D.2.2.8	Page 16	
	Letters of Support	See Sec. D.2.2.9	Page 19	*
	Official Resolution	See Sec. D.2.2.10	Page 20	**
	Unique Entity Identifier and System for Award Management	See Sec. D.3	Page 21	***

* Submit materials with your application.

** Document should be submitted with your application; however, please refer to the applicable section of the NOFO for extended submission date.

*** Should be completed prior to the application deadline; however, please refer to the applicable section of the NOFO for extended completion date.

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Acronyms and Abbreviations

AOR	Authorized Organizational Representative
ARC	Application Review Committee
ASAP	Automated Standard Application for Payments
BIL	Bipartisan Infrastructure Law
CE	Categorical Exclusion
CEC	Categorical Exclusion Checklist
CFDA	Catalog of Federal Domestic Assistance
CFR	Code of Federal Regulations
CWA	Clean Water Act
D&B	Dun & Bradstreet
Department	U.S. Department of the Interior
DUNS	Data Universal Number System
EA/FONSI	Environmental Assessment/Finding of No Significant Impact
EIS	Environmental Impact Statement
E.O.	Executive Order
ESA	Endangered Species Act
FAIR	Financial Assistance Interior Regulation
FAPIS	Federal Award Performance Integrity Information System
FOIA	Freedom of Information Act
FY	fiscal year
MDT	Mountain Daylight Time
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NOAA	National Oceanic and Atmospheric Administration
NOFO	Notice of Funding Opportunity
OM&R	operations, maintenance, and replacement
P.L.	Public Law
Project	A Project eligible under Section 4009(c) of the WIIN Act
Reclamation	Bureau of Reclamation
ROD	Record of Decision
SAM	System of Award Management
Title XVI	Title XVI Water Reclamation and Reuse Program
U.S.C.	United States Code
USACE	United States Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
WaterSMART	Sustain and Manage America's Resources for Tomorrow
WIIN	Water Infrastructure Improvements for the Nation

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Contents

	Page
Acronyms and Abbreviations.....	v
Section A. Program Description	1
A.1. Authority.....	1
A.2. Background, Purpose, and Program Requirements.....	1
A.3. Other Funding Opportunities	2
Section B. Federal Award Information.....	3
B.1. Total Funding	3
B.2. Expected Award Amount	3
B.3. Anticipated Announcement and Federal Award Date	4
B.4. Number of Awards	4
B.5. Type of Award.....	4
Section C. Eligibility Information	5
C.1. Eligible Applicants.....	5
C.2. Cost Sharing or Matching	5
C.3. Other.....	6
C.4. Eligible Project Types	6
Section D. Application and Submission Information.....	9
D.1. Address to Request Application Package	9
D.2. Content and Form of Application Submission	9
D.3. Unique Entity Identifier and System for Award Management.....	21
D.4. Submission Date and Time.....	22
D.5. Intergovernmental Review.....	24
D.6. Funding Restrictions: Pre-award Costs.....	24
D.7. Automated Standard Application for Payments Registration	24
Section E. Application Review Information	25
E.1. Technical Proposal: Evaluation Criteria	25
E.2. Review and Selection Process	31
E.3. Federal Award Performance Integrity Information System	34
Section F. Federal Award Administration Information.....	35
F.1. Federal Award Notices	35
F.2. Administrative and National Policy Requirements	35
F.3. Reporting Requirements and Distribution.....	37
F.4. Disclosures.....	38
F.5. Data Availability	38
F.6. Releasing Applications	39
Section G. Agency Contacts	41
G.1. Reclamation Financial Assistance Contact	41
G.2. Reclamation Program Coordinator Contact.....	41
G.3. Application System Technical Support.....	41
Section H. Other Information	45
H.1. National Environmental Policy Act	45
H.2. National Historic Preservation Act.....	46
H.3. Endangered Species Act	47

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Section A. Program Description

A.1. Authority

This NOFO is issued under the authority of Title XVI of Public Law (P.L.) 102-575, as amended (43 United States Code [U.S.C.] 390h), including amendments in Title II, Subtitle J of the Water Infrastructure Improvements for the Nation (WIIN) Act.

A.2. Background, Purpose, and Program Requirements

The U.S. Department of the Interior's (Department) WaterSMART (Sustain and Manage America's Resources for Tomorrow) Program provides a framework for Federal leadership and assistance to stretch and secure water supplies for future generations in support of the Department's priorities. Through WaterSMART, the Bureau of Reclamation (Reclamation) leverages Federal and non-Federal funding to support stakeholder efforts to stretch scarce water supplies and avoid conflicts over water.

Through the Title XVI Water Reclamation and Reuse Program (Title XVI), authorized by P.L. 102-575 in 1992, Reclamation provides financial and technical assistance to local water agencies for the planning, design, and construction of water reclamation and reuse projects. Water recycling is a tool in stretching the limited water supplies in the Western United States. Title XVI projects develop and supplement urban and irrigation water supplies through water reuse—thereby improving efficiency, providing flexibility during water shortages, and diversifying the water supply. These projects provide growing communities with new sources of clean water which increases water management flexibility and makes our water supply more reliable. The Title XVI Program also provides support for priorities identified in Presidential Executive Order (E.O.) 14008: *Tackling the Climate Crisis at Home and Abroad* and aligned with other priorities, such as those identified in E.O. 13985: *Advancing Racial Equity and Support for Underserved Communities Through the Federal Government*. Title XVI water projects are an important part of the WaterSMART Program. For further information on the WaterSMART Program, see <https://www.usbr.gov/watersmart/>. Objective of this NOFO

The objective of this Notice of Funding Opportunity (NOFO) is to invite sponsors of projects eligible under Section 4009(c) of the WIIN Act (Project) to request cost-shared funding for planning, design, and/or construction of those Projects. A NOFO for congressionally authorized Title XVI projects is being released separately.

Section A: Funding Opportunity Description

A.3. Other Funding Opportunities

WaterSMART: Title XVI Congressionally Authorized Water Reclamation and Reuse Projects—Through this NOFO, funding is available for planning, design, and construction of congressionally authorized Title XVI Projects.

WaterSMART: Desalination Construction Projects Under the WIIN Act—Through this NOFO, funding is available for planning, design, and construction of desalination projects eligible under Section 4009(a) of the WIIN Act.

Desalination and Water Purification Research and Development: Laboratory and Pilot Scale Projects—Through this NOFO, funding is available for laboratory and pilot scale research studies to determine the viability of a novel process, new materials, or process modifications in conjunction with individuals, institutions of higher education, commercial or industrial organizations, private entities, public entities (including state and local), and Indian tribal governments.

Desalination and Water Purification Research and Development: Pitch to Pilot—Through this NOFO, funding is available to develop innovative and disruptive new technologies or processes at the pilot scale with the goal to augment water supplies and address costs, energy usage, and environmental impacts of water treatment technologies.

Section B. Federal Award Information

B.1. Total Funding

This NOFO will be used to allocate available fiscal year (FY) 2022 enacted appropriations for Title XVI projects authorized under section 4009(c) of the WIIN Act and funding available under the Bipartisan Infrastructure Law (BIL), P.L. 117-58 in FY 2022. Applications submitted under this NOFO also may be considered if additional funding becomes available in FY 2022 or thereafter. Applicants that are identified for BIL funding will need to meet additional requirements, including Buy American and Wage Rate Requirements (Davis-Bacon Act). This NOFO may be amended during the application period to provide additional details about these requirements. Reclamation will work with selected recipients to address these requirements. See *Section F.2.5. Additional Bipartisan Infrastructure Law Requirements* for more information.

B.2. Expected Award Amount

Maximum Award: \$30,000,000

Minimum Award: \$0

The Federal share (i.e., Reclamation's share in addition to any other sources of Federal funding), of any Title XVI Project, including any funding provided as a result of this NOFO, shall not exceed 25 percent of the total Project cost, up to a maximum of \$30 million per project.

Eligible applicants are invited to request funding for planning, design, and/or construction of Projects. Although the evaluation criteria listed in this NOFO will be applied to the Project as a whole, funding requests submitted under this NOFO must be based on the expenditures already incurred or planned to be incurred by September 30, 2025.

This may include work either:

- planned through September 30, 2025; or
- completed work that was conducted after the date of Reclamation's feasibility study review findings for the Project.

All costs incurred by Reclamation related to the development and administration of any award under this NOFO are considered part of the total Project costs, and the recipient will be required to provide cost share for these costs. All Reclamation administrative costs will also be included in the Federal cost share for the Project.

Section B: Award Information

B.3. Anticipated Announcement and Federal Award Date

Anticipated Award Date: 09/30/2022

Reclamation expects to contact potential award recipients and unsuccessful applicants in the spring of 2022 (or later if necessary), subject to the timing of final FY 2022 appropriations.

Anticipated Project Completion Date: 09/30/2025

B.4. Number of Awards

Approximately 10 to 30 awards, depending on the amount requested by each applicant and the amount of funding available.

B.5. Type of Award

Awards will be made through a grant or cooperative agreement as applicable to the selected Project. If a cooperative agreement is awarded, the recipient should expect Reclamation to have substantial involvement in the Project. Substantial involvement by Reclamation may include:

- Collaboration and participation with the recipient in the management of the Project and close oversight of the recipient's activities to ensure that the program objectives are being achieved. *Note: The development and administration of an award under this NOFO is not considered substantial involvement.*
- Review, input, and approval at key interim stages of the Project.

At the request of the recipient, Reclamation can provide technical assistance after award of an agreement. If you would like to receive Reclamation technical assistance, you must account for these costs in your budget. To discuss available assistance and these costs, contact the program coordinator identified in *Section G. Agency Contacts*.

Section C. Eligibility Information

C.1. Eligible Applicants

Sponsors of projects eligible for funding under section 4009(c) of the WIIN Act, P.L. 114-322. Eligible entities under Section 4009(c) include sponsors of Projects that have submitted a Title XVI feasibility study to Reclamation for review by the date that this NOFO is posted. Eligibility does not entitle an applicant to any future Federal funding or create a new project authorization.

C.2. Cost Sharing or Matching

Applicants must be capable of cost sharing 75 percent or more of the total Project costs. The total Project cost is defined as the total allowable costs incurred under a Federal award and all required cost share and voluntary committed cost share contributions, including third-party contributions.

Cost share may be made through cash, costs contributed by the applicant, or third-party in-kind contributions. Third-party in-kind contributions is the value of non-cash contributions of property or services that benefit the federally assisted project and are contributed by non-Federal third parties, without charge. Cost-share funding from sources outside the applicant's organization (e.g., loans or state grants) should be secured and available to the applicant prior to award. Please see *Sections D.2.2.8. Project Budget* and *D.2.2.10. Official Resolution* for more information regarding the documentation required to verify commitments to meet cost-sharing requirements.

Other sources of Federal funding may not be counted towards the required cost share. The exception to this requirement is where the Federal statute authorizing a program specifically provides that Federal funds made available for such programs can be applied to matching or cost sharing requirements of other Federal programs, such as awards to tribal organizations under P.L. 93-638, as amended. If it is determined that the Federal funding cannot be applied towards the non-Federal cost share, the work associated with the funding may be removed from the proposed project or the Federal funding will be counted toward the 25 percent Federal cost share for the project. Please identify any other Federal funding received for the Project.

C.2.1. Cost-Share Regulations

All cost-share contributions must meet the applicable administrative and cost principles criteria established in 2 Code of Federal Regulations (CFR) Part 200, available at the Electronic Code of Federal Regulations at www.ecfr.gov.

Section C: Eligibility Information

C.2.2. Third-Party Contributions

Third-party contributions may be in the form of equipment, supplies, and other expendable property, as well as the value of services directly benefiting and specifically identifiable to the proposed Project. The cost or value of third-party in-kind contributions that have been or will be relied on to satisfy a cost-sharing or matching requirement for another Federal financial assistance agreement, a Federal procurement contract, or any other award of Federal funds may not be relied on to satisfy the cost-share requirement for an award under this NOFO. Applicants should refer to 2 CFR §200.434 *Contributions and donations* for regulations regarding the valuation of third-party in-kind contributions.

C.3. Other

Reclamation conducts a review of the [SAM.gov Exclusions database](#) for all applicant entities and their key project personnel prior to award. Reclamation cannot award funds to entities or their key project personnel identified in the [SAM.gov Exclusions database](#) as ineligible, prohibited/restricted or otherwise excluded from receiving Federal contracts, certain subcontracts, and certain Federal assistance and benefits, as their ineligibility condition applies to this Federal program.

C.4. Eligible Project Types

C.4.1. Eligible Projects

Planning, design, and construction of water reclamation and reuse facilities that are eligible for funding under Section 4009(c) of the WIIN Act, P.L. 114-322 are eligible Projects. In order to be eligible for funding, the Project must have a completed feasibility study that has been submitted to Reclamation for review by the date that this NOFO is posted, and for which the study is found to meet all of the requirements of Reclamation's Directives and Standards [WTR 11-01, Title XVI Water Reclamation and Reuse Program and Desalination Construction Program Feasibility Study Review Process](#) by April 30, 2022. If a feasibility study has been reviewed by Reclamation and found to meet the requirements of WTR 11-01, but the review findings have not yet been transmitted to Congress, Reclamation will transmit those findings to Congress either before project selections are made or concurrently with project selections. Eligibility does not entitle a project to any future Federal funding or create a new project authorization.

C.4.2. Ineligible Projects

Projects not eligible for funding under this NOFO include, but are not limited to:

- Water recycling projects that do not have a Reclamation reviewed feasibility study.
- Water recycling projects that have a Reclamation reviewed feasibility study that Reclamation determined did not meet the requirements of WTR 11-01.
- Water reclamation projects that are solely ocean or brackish water desalination.
- Projects that have a project specific congressional authorization.
- Projects that have already received funding under the WaterSMART Drought Response Program.

- Operations, maintenance, and replacement (OM&R) activities. OM&R is described as system improvements that replace or repair existing infrastructure or function without providing increased efficiency or effectiveness of water distribution over the expected life of the improvement. Examples of ineligible OM&R projects include:
 - Replacing malfunctioning components of an existing facility with the same components.
 - Improving an existing facility to operate as originally designed.
 - Performing an activity on a recurring basis, even if that period is extended (e.g., a 10-year interval).
 - Sealing expansion joints of concrete lining because the original sealer or the water stops have failed.
 - Replacing broken meters with new meters of the same type.
 - Replacing leaky pipes with new pipes of the same type.

Applicants that have questions regarding OM&R are encouraged to contact the program coordinator listed in *Section G. Agency Contacts*, prior to the application deadline for further information.

C.4.3. Length of Projects

Applicants can only request funding for work that is already completed (going back to the pre-award cost deadlines identified in *Sections B.2. Expected Award Amount* and *D.6. Funding Restrictions: Pre-Award Costs* of this NOFO) or work that is planned through September 30, 2025.

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Section D. Application and Submission Information

D.1. Address to Request Application Package

This document contains all information, forms, and electronic addresses required to obtain the information required for submission of an application.

If you are unable to access this information electronically, you can request paper copies of any of the documents referenced in this NOFO by emailing the Notice of Funding Opportunity Team staff at sha-dro-fafoa@usbr.gov.

D.2. Content and Form of Application Submission

All applications must conform to the requirements set forth below.

D.2.1. Application Format and Length

The total application package shall be no more than **75** consecutively numbered pages. If an application exceeds **75** pages, only the first **75** pages will be evaluated. The font shall be at least 12 points in size and easily readable. Page size shall be 8½ by 11 inches with standard 1-inch margins, including charts, maps, and drawings. Oversized pages will not be accepted. The SF-424 forms, SF-LLL, letters of Project support, and official resolutions will not be considered in the total page count.

Note: Do not include feasibility studies or other planning documents with your application.

Applications will be prescreened for compliance to the above page number limitation. Excess pages will be removed and not considered in the evaluation of the proposed Project.

D.2.2. Application Content

The application must include the following elements to be considered complete:

- Mandatory Federal Forms
 - SF-424 Application for Federal Assistance
 - SF-424C Budget Information—Construction Programs
 - SF-424D Assurances—Construction Programs
 - SF-LLL Disclosure of Lobbying Activities (if applicable)

Section D: Application and Submission Information

SF-424, SF-424C, SF-424D, and SF-LLL forms may be obtained at www.grants.gov/web/grants/forms/sf-424-family.html.

- Title page
- Table of contents
- Technical proposal and evaluation criteria
 - Executive summary
 - Technical project description
 - Evaluation criteria
- Project budget
 - Funding plan and letters of commitment
 - Budget proposal
 - Budget narrative
- Environmental and cultural resources compliance
- Required permits or approvals
- Letters of Project support (will not count toward the page limitation)
- Official resolution (will not count toward the page limitation)

D.2.2.1. Mandatory Federal Forms

The application must include the following standard Federal forms.

SF-424 Application for Federal Assistance

A fully completed SF-424 Application for Federal Assistance, signed by a person legally authorized to commit the applicant to performance of the Project must be submitted with the application. Failure to submit a properly signed SF-424 may result in the elimination of the application from further consideration.

SF-424 Budget Information

A fully completed SF-424C Budget Information—Construction Programs must be submitted with the application.

SF-424 Assurances

An SF-424D Assurances—Construction Programs, signed by a person legally authorized to commit the applicant to performance of the Project shall be included. Failure to submit a properly signed SF-424D may result in the elimination of the application from further consideration.

SF-LLL

A fully completed and signed SF-LLL Disclosure of Lobbying Activities is required if the applicant has made or agreed to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action.

D.2.2.2. Title Page

Provide a brief, informative, and descriptive title for the proposed work that indicates the nature of the Project. Include the applicant's name and address and the project manager's name and address, email address, and telephone number.

D.2.2.3. Table of Contents

List all major sections of the proposal in the table of contents.

D.2.2.4. Technical Proposal and Evaluation Criteria

The technical proposal and evaluation criteria includes:

- (1) Executive summary
- (2) Technical Project description
- (3) Evaluation criteria

Executive Summary

The executive summary should include:

- The date, applicant name, city, county, and state.
- A one paragraph summary of the work for which funding is being requested, including how funds will be used to accomplish specific Project activities.

Technical Project Description

The technical project description should describe the Project in its entirety. This description shall have sufficient detail to permit a comprehensive evaluation of the proposal.

Evaluation Criteria

(See *Section E.1. Technical Proposal: Evaluation Criteria* for additional details, including a detailed description of each criterion and subcriterion and points associated with each.)

The evaluation criteria portion of your application should thoroughly address each criterion and subcriterion in the order presented to assist in the complete and accurate evaluation of your proposal. The evaluation criteria should be applied to the entire Project.

It is suggested that applicants copy and paste the evaluation criteria and subcriteria in Section E.1. Technical Proposal: Evaluation Criteria into their applications to ensure that all necessary information is adequately addressed.

Section D: Application and Submission Information

D.2.2.5. Environmental and Cultural Resources Compliance

To allow Reclamation to assess the probable environmental and cultural resources impacts and costs associated with each application, all applicants must respond to the following list of questions focusing on the National Environmental Policy Act (NEPA), National Historic Preservation Act (NHPA), and Endangered Species Act (ESA) requirements. Please answer the following questions to the best of your knowledge. If any question is not applicable to the Project, please explain why. The application should include the answers to:

- Will the proposed Project impact the surrounding environment (e.g., soil [dust], air, water [quality and quantity], animal habitat)? Please briefly describe all earth-disturbing work and any work that will affect the air, water, or animal habitat in the Project area. Please also explain the impacts of such work on the surrounding environment and any steps that could be taken to minimize the impacts.
- Are you aware of any species listed or proposed to be listed as a Federal threatened or endangered species, or designated critical habitat in the Project area? If so, would they be affected by any activities associated with the proposed Project?
- Are there wetlands or other surface waters inside the Project boundaries that potentially fall under Clean Water Act (CWA) jurisdiction as “Waters of the United States”? If so, please describe and estimate any impacts the proposed Project may have.
- When was the water delivery system constructed?
- Will the proposed Project result in any modification of or effects to, individual features of an irrigation system (e.g., headgates, canals, or flumes)? If so, state when those features were constructed and describe the nature and timing of any extensive alterations or modifications to those features completed previously.
- Are any buildings, structures, or features in the irrigation district listed or eligible for listing on the National Register of Historic Places? A cultural resources specialist at your local Reclamation office or the State Historic Preservation Office can assist in answering this question.
- Are there any known archeological sites in the proposed Project area?
- Will the proposed Project have a disproportionately high and adverse effect on low income or minority populations?
- Will the proposed Project limit access to and ceremonial use of Indian sacred sites or result in other impacts on tribal lands?
- Will the proposed Project contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area?

Note: If mitigation is required to lessen environmental impacts, the applicant may, at Reclamation’s discretion, be required to report on progress and completion of these commitments. Reclamation will coordinate with the applicant to establish reporting requirements and intervals accordingly.

Section D: Application and Submission Information

Under no circumstances may an applicant begin any ground-disturbing activities (including grading, clearing, and other preliminary activities) on a Project before environmental compliance is complete and Reclamation explicitly authorizes work to proceed. This pertains to all components of the proposed Project, including those that are part of the applicant's non-Federal cost share. Reclamation will provide a successful applicant with information once environmental compliance is complete. An applicant that proceeds before environmental compliance is complete may risk forfeiting Reclamation funding under this NOFO.

D.2.2.6. Required Permits or Approvals

Applicants must state in the application whether any permits or approvals are required and explain the plan for obtaining such permits or approvals.

Note that improvements to Federal facilities that are implemented through any Project awarded funding through this NOFO must comply with additional requirements. The Federal government will continue to hold title to the Federal facility and any improvement that is integral to the existing operations of that facility. Reclamation may also require additional reviews and approvals prior to award to ensure that any necessary easements, land use authorizations, or special permits can be approved consistent with the requirements of 43 CFR §429, and that the development will not impact or impair project operations or efficiency.

D.2.2.7. Other Federal Funding

Identify any Federal funding, other than Title XVI funding, received for the Project. Include the amount of Federal funds, the amount of non-Federal cost share provided or required, and a description of the and the work that was or will be funded under the other Federal award(s).

D.2.2.8. Project Budget

The Project budget includes:

- (1) Funding plan and letters of commitment
- (2) Budget proposal
- (3) Budget narrative

The project budget may include costs for planning, design, and/or construction of the Project incurred after the date of Reclamation's feasibility study review findings for the Project or planned to be incurred by September 30, 2025.

Please note that the costs for preparing and applying in response to this NOFO, including the development of data necessary to support the proposal, are not eligible Project costs under this NOFO and must not be included in the Project budget.

Funding Plan and Letters of Commitment

Describe how the non-Federal share of Project costs will be provided. Reclamation will use this information in making a determination of financial capability.

Section D: Application and Submission Information

Project funding provided by a source other than the applicant shall be supported with letters of commitment from these additional sources. Letters of commitment shall identify the following elements:

- The amount of funding commitment
- The date the funds will be available to the applicant
- Any time constraints on the availability of funds
- Any other contingencies associated with the funding commitment

Commitment letters from third-party funding sources should be submitted with your application. If commitment letters are not available at the time of the application submission, please provide a timeline for submission of all commitment letters. Cost-share funding from sources outside the applicant's organization (e.g., loans or state grants), should be secured and available to the applicant prior to award.

Reclamation will not make funds available for an award under this NOFO until the recipient has secured non-Federal cost-share funding. Reclamation will execute a financial assistance agreement once non-Federal funding has been secured or Reclamation determines that there is sufficient evidence and likelihood that non-Federal funds will be available to the applicant subsequent to executing the agreement.

Note: Applicants are not required to have non-Federal cost-share funding secured for the entire Project at the time of award. Applicants must demonstrate sufficient evidence that non-Federal cost share for the initial Federal obligation will be available at the time of award and must describe a plan and schedule for securing the remaining non-Federal cost-share funding for the Project.

Please identify the sources of the non-Federal cost-share contributions for the Project, including:

- Any monetary contributions by the applicant towards the cost-share requirement and source of funds (e.g., reserve account, tax revenue, and/or assessments).
- Any costs that will be contributed by the applicant.
- Any third-party contributions (i.e., goods and services provided by a third party).
- Any cash requested or received from other non-Federal entities.
- Any pending funding requests (i.e., grants or loans) that have not yet been approved and explain how the project will be affected if such funding is denied.

In addition, please identify whether the budget proposal includes any project costs that have been or may be incurred prior to award. For each cost, describe:

- The project expenditure and amount
- The date of cost incurrence
- How the expenditure benefits the Project

Please include the following chart (Table 1) to summarize all funding sources. Denote in-kind contributions with an asterisk (*).

Section D: Application and Submission Information

Table 1. Summary of Non-Federal Funding Sources

Funding Sources	Amount
Non Federal Entities	
1.	
2.	
3.	
Non-Federal Subtotal	
Requested Reclamation Funding	

Budget Proposal

The total project cost is the sum of all allowable items of costs, including all required cost sharing and voluntary committed cost sharing (including third-party contributions) that are necessary to complete the Project. The budget proposal should include detailed information on the categories listed below and must clearly identify ***all*** Project costs, including those that will be contributed as a non-Federal cost share by the applicant (required and voluntary), third-party in-kind contributions, and those that will be covered using the funding requested from Reclamation, and any requested pre-award costs. Unit costs must be provided for all budget items, including the cost of services or other work to be provided by consultants and contractors. Applicants are strongly encouraged to review the procurement standards for Federal awards found at 2 CFR §200.317 through §200.327 before developing their budget proposal.

It is also strongly advised that applicants use the budget proposal format shown in Table 2 or a similar format that provides this information. If selected for award, successful applicants must submit detailed supporting documentation for all budgeted costs.

Table 2. Sample Budget Proposal Format

Budget Item Description	Computation		Quantity Type	Total Cost
	\$/Unit	Quantity		
Salaries and Wages				
Employee 1				\$
Employee 2				\$
Employee 3				\$
Fringe Benefits				
Full-Time Employees				\$
Part-Time Employees				\$
Travel				
Trip 1				\$
Trip 2				\$
Equipment				
Item A				\$
Item B				\$
Item C				\$

Section D: Application and Submission Information

Table 2. Sample Budget Proposal Format

Supplies and Materials				
Item A				\$
Item B				\$
Contractual/Construction				
Contractor A				\$
Contractor B				\$
Third-party Contributions				
Contributor A				\$
Contributor B				\$
Other				
Other				\$
Total Direct Costs				\$
Indirect Costs				
Type of Rate	percentage	\$base		\$
Total Estimated Project Costs				\$

Budget Narrative

Submission of a budget narrative is mandatory. An award will not be made to any applicant who fails to fully disclose this information. The budget narrative provides a discussion of, or explanation for, items included in the budget proposal. The types of information to describe in the narrative include, but are not limited to, those listed in the following subsections. Costs, including the valuation of third-party in-kind contributions, must comply with the applicable cost principles contained in 2 CFR §200, available at the Electronic Code of Federal Regulations (www.ecfr.gov).

Salaries and Wages

Indicate the program manager and other key personnel by name and title. The project manager must be an employee or board member of the applicant. Other personnel should be indicated by title alone. For all positions, indicate salaries and wages, estimated hours or percent of time, and rate of compensation. The labor rates must identify the direct labor rate separate from the fringe rate or fringe cost for each position. All labor estimates must be allocated to specific tasks as outlined in the applicant's technical project description. Labor rates and proposed hours shall be displayed for each task.

The budget proposal and narrative should include estimated hours for compliance with reporting requirements, including final Project and evaluation. Please see *Section F.3 Reporting Requirements and Distribution* for information on types and frequency of reports required.

Generally, salaries of administrative and/or clerical personnel will be included as a portion of the stated indirect costs. If these salaries can be adequately documented as direct costs, they should be included in this section; however, a justification should be included in the budget narrative.

Section D: Application and Submission Information

Fringe Benefits

Identify the rates/amounts, what costs are included in this category, and the basis of the rate computations. Federally approved rate agreements are acceptable for compliance with this item.

Travel

Identify the purpose of each anticipated trip, destination, number of persons traveling, length of stay, and all travel costs including airfare (basis for rate used), per diem, lodging, and miscellaneous travel expenses. For local travel, include mileage and rate of compensation. *Note: Travel costs incurred by contractors should not be included in this section, but these costs can be included in the contract cost estimate.*

Equipment

If equipment will be purchased, itemize all equipment valued at or greater than \$5,000. For each item, identify why it is needed for the completion of the work proposed for funding and how the equipment was priced. *Note: If the value is less than \$5,000, the item should be included under materials and supplies.*

If equipment is being rented, specify the number of hours and the hourly rate. Local rental rates are only accepted for equipment actually being rented or leased.

If the applicant intends to use their own equipment for the purposes of the Project, the proposed usage rates should fall within the equipment usage rates outlined by the United States Army Corps of Engineers (USACE) within their *Construction Equipment Ownership and Operating Expense Schedule* (EP 1110-1-8) at <https://www.usace.army.mil/Cost-Engineering/EP1110-1-8/>. *Note: If the equipment will be purchased and installed under a construction contract, the equipment should be included in the construction contract cost estimate.*

Supplies

Itemize supplies by major category, unit price, quantity, and purpose, such as whether the items are needed for office use, research, or construction. Identify how these costs were estimated (i.e., quotes, past experience, engineering estimates, or other methodology). *Note: If the materials/supplies will be furnished and installed under a construction contract, the equipment should be included in the construction contract cost estimate.*

Contractual

Identify all work that will be accomplished by subrecipients, consultants, or contractors, including a breakdown of all tasks to be completed, and a detailed budget estimate of time, rates, supplies, and materials that will be required for each task. For each proposed contract, identify the procurement method that will be used to select the consultant or contractor and the basis for selection. Please note that all contracts with an anticipated value of \$10,000 or more must use a competitive procurement method. Only contracts for architectural/engineering services can be awarded using a qualifications-based procurement method. If a qualifications-based procurement method is used, profit must be negotiated as a separate element of the contract price. See 2 CFR §200.317 through §200.327 for additional information regarding procurements, including required contract content.

Section D: Application and Submission Information

Third-Party In-Kind Contributions

Identify all work that will be accomplished by third-party contributors, including a breakdown of all tasks to be completed, and a detailed budget estimate of time, rates, supplies, and materials that will be required for each task. Third-party in-kind contributions, including contracts, must comply with all applicable administrative and cost principles criteria, established in 2 CFR § 200, and all other requirements of this NOFO.

Environmental and Regulatory Compliance Costs

Prior to awarding financial assistance, Reclamation must first ensure compliance with Federal environmental and cultural resources laws and other regulations (“environmental compliance”). Every project funded under this program will have environmental compliance costs associated with activities undertaken by Reclamation and the recipient.

To estimate environmental compliance costs, please contact compliance staff at your local Reclamation Office for additional details regarding the type and costs of compliance that may be required for your Project. *Note: Support for your compliance costs estimate will be considered during review of your application.* See *Section G. Agency Contacts* of this NOFO for a list of Reclamation staff by region to contact regarding compliance costs and requirements.

Environmental compliance costs are considered Project costs and must be included as a line item in the Project budget and will be cost shared accordingly. The amount of the line item should be based on the actual expected environmental compliance costs for the Project, including Reclamation’s cost to review environmental compliance documentation.

Environmental compliance costs will vary based on project type, location, and potential impacts to the environment and cultural resources.

How environmental compliance activities will be performed (e.g., by Reclamation, the applicant, or a consultant) and how the environmental compliance funds will be spent, will be determined pursuant to subsequent agreement between Reclamation and the applicant. The amount of funding required for Reclamation to conduct any environmental compliance activities, including Reclamation’s cost to review environmental compliance documentation, will be withheld from the Federal award amount and placed in an environmental compliance account to cover such costs. If any portion of the funds budgeted for environmental compliance is not required for compliance activities, such funds may be reallocated to the Project, if appropriate.

Costs associated with environmental and regulatory compliance must be included in the budget. Compliance costs include costs associated with any required documentation of environmental compliance, analyses, permits, or approvals. Applicable Federal environmental laws could include NEPA, ESA, NHPA, CWA, and other regulations depending on the project. Such costs may include, but are not limited to:

- The cost incurred by Reclamation to determine the level of environmental compliance required for the Project
- The cost incurred by Reclamation, the recipient, or a consultant to prepare any necessary environmental compliance documents or reports
- The cost incurred by Reclamation to review any environmental compliance documents prepared by a consultant

Section D: Application and Submission Information

- The cost incurred by the recipient in acquiring any required approvals or permits, or in implementing any required mitigation measures

Other Expenses

Any other expenses not included in the above categories shall be listed in this category, along with a description of the item and why it is necessary. No profit or fee will be allowed.

Indirect Costs

Indirect costs that will be incurred during the development or construction of a Project, which will not otherwise be recovered, may be included as part of the applicant's Project budget. Show the proposed rate, cost base, and proposed amount for allowable indirect costs based on the applicable cost principles for the recipient's organization. It is not acceptable to simply incorporate indirect rates within other direct cost line items.

If the applicant has never received a Federal negotiated indirect cost rate, the budget may include a *de minimis* rate of up to 10 percent of modified total direct costs. For further information on modified total direct costs, refer to 2 CFR §200.

If the applicant does not have a federally approved indirect cost rate agreement and is proposing a rate greater than the *de minimis* 10 percent rate, include the computational basis for the indirect expense pool and corresponding allocation base for each rate. Information on "Preparing and Submitting Indirect Cost Proposals" is available from the Department's Interior Business Center, and Indirect Cost Services, at www.doi.gov/ibc/services/finance/indirect-cost-services. If the proposed project is selected for award, the recipient will be required to submit an indirect cost rate proposal with their cognizant agency within 3 months of award.

Total Costs

Indicate the total amount of Project costs, including the Federal and non-Federal cost share amounts.

D.2.2.9. Letters of Support

Please include letters from interested stakeholders supporting the Project. To ensure your proposal is accurately reviewed, please attach all letters of support/partnership letters as an appendix. (*Note: This will not count against the application page limit.*) **Letters of support received after the application deadline for this NOFO will not be considered in the evaluation of the proposal.**

D.2.2.10. Official Resolution

Include an official resolution adopted by the applicant's board of directors or governing body, or, for state government entities, a signed statement from an official authorized to commit the applicant to the financial and legal obligations associated with receipt of a financial assistance award under this NOFO, verifying:

- The identity of the official with legal authority to enter into an agreement
- The board of directors, governing body, or appropriate official who has reviewed and supports the application submitted

Section D: Application and Submission Information

- The capability of the applicant to provide the amount of funding and/or in-kind contributions specified in the funding plan
- That the applicant will work with Reclamation to meet established deadlines for entering into a grant or cooperative agreement

An official resolution meeting the requirements set forth above is mandatory. If the applicant is unable to submit the official resolution by the application deadline because of the timing of board meetings or other justifiable reasons, the official resolution may be submitted to sha-dro-fafoa@usbr.gov up to 60 days after the application deadline.

D.2.2.11. Conflict of Interest Disclosure

Per the [Financial Assistance Interior Regulation \(FAIR\), 2 CFR §1402.112](#), applicants must state in their application if any actual or potential conflict of interest exists at the time of submission.

(a) Applicability.

(1) This section intends to ensure that non-Federal entities and their employees take appropriate steps to avoid conflicts of interest in their responsibilities under or with respect to Federal financial assistance agreements.

(2) In the procurement of supplies, equipment, construction, and services by recipients and by subrecipients, the conflict of interest provisions in 2 CFR 200.318 apply.

(b) Notification.

(1) Non-Federal entities, including applicants for financial assistance awards, must disclose in writing any conflict of interest to the Department awarding agency or pass-through entity in accordance with 2 CFR 200.112.

(2) Recipients must establish internal controls that include, at a minimum, procedures to identify, disclose, and mitigate or eliminate identified conflicts of interest. The recipient is responsible for notifying the Financial Assistance Officer in writing of any conflicts of interest that may arise during the life of the award, including those that have been reported by subrecipients.

(c) Restrictions on lobbying. Non-Federal entities are strictly prohibited from using funds under a grant or cooperative agreement for lobbying activities and must provide the required certifications and disclosures pursuant to 43 CFR part 18 and 31 U.S.C. 1352.

(d) Review procedures. The Financial Assistance Officer will examine each conflict of interest disclosure on the basis of its particular facts and the nature of the proposed grant or cooperative agreement, and will determine whether a significant potential conflict exists and, if it does, develop an appropriate means for resolving it.

(e) Enforcement. Failure to resolve conflicts of interest in a manner that satisfies the government may be cause for termination of the award. Failure to make required disclosures may result in any of the remedies described in 2 CFR 200.338, Remedies for noncompliance, including suspension or debarment (see also 2 CFR part 180).

D.2.2.12. Single Audit Reporting Statement

All U.S. states, local governments, federally recognized Indian tribal governments, and non-profit organizations expending \$750,000 in U.S. dollars or more in Federal award funds in the applicant's fiscal year must submit a Single Audit report for that year through the [Federal Audit Clearinghouse's Internet Data Entry System](#). U.S. state, local government, federally recognized Indian tribal government, and non-profit applicants must state if your organization was or was not required to submit a Single Audit report for the most recently closed fiscal year. If your organization was required to submit a Single Audit report for the most recently closed fiscal year, provide the Employer Identification Number (EIN) associated with that report and state if it is available through the [Federal Audit Clearinghouse](#) website.

D.2.2.13. Certification Regarding Lobbying

Applicants requesting more than \$100,000 in Federal funding must certify to the statements in [43 CFR Part 18, Appendix A-Certification Regarding Lobbying](#). If this application requests more than \$100,000 in Federal funds, the Authorized Official's signature on the appropriate SF-424, Application for Federal Assistance form also represents the entity's certification of the statements in 43 CFR Part 18, Appendix A.

D.3. Unique Entity Identifier and System for Award Management

D.3.1. Identifier and System for Award Management Registration in SAM.gov

This requirement does not apply to individuals applying for funds as individual (i.e., unrelated to any business or nonprofit organization you may own or operate) or any entity with an exception approved by the funding bureau or office in accordance with bureau or office policy. All other applicants are required to obtain a Data Universal Numbering System (DUNS) number from Dun & Bradstreet (D&B) and then register in [SAM.gov](#) prior to submitting a Federal award application. Federal award recipients must continue to maintain an active SAM.gov registration with current information through the life of their Federal award(s). We may not make a Federal award to an applicant that has not completed the [SAM.gov](#) registration. If an applicant selected for funding has not completed their [SAM.gov](#) registration by the time the program is ready to make an award, the program may determine that the applicant is not qualified to receive an award. The program can use that determination as a basis for making an award to another applicant. **There is no cost to register with Dun & Bradstreet or SAM.gov.** There are third-party vendors who will charge a fee in exchange for registering entities with Dun & Bradstreet and [SAM.gov](#); **please be aware you can register and request help for free.**

D.3.2. Obtain a DUNS Number

Request a DUNS Number through the Dun & Bradstreet website. For technical difficulties, send an email to the [D&B System of Award Management \(SAM\) Help Desk](#). Please ensure that you are able to receive emails from [SAMHelp@dnb.com](#). The Grants.gov "[Obtain a DUNS Number](#)" webpage also provides detailed instructions. Once assigned a DUNS number, your organization must maintain up-to-date information with Dun & Bradstreet. Applicants must enter their DUNS number in the "Organizational DUNS" field on the SF-424, Application for Federal Assistance form.

Section D: Application and Submission Information

D.3.3. Register with the System for Award Management (SAM)

Register on the [SAM.gov](https://sam.gov) website. “Help” tab on the website contains User Guides and other information to assist you with registration. The [Grants.gov Register with SAM page](#) also provides detailed instructions. You can also contact the supporting Federal Service Desk for help registering in SAM. Once registered in SAM, entities must renew and revalidate their SAM registration at least once every 12 months from the date previously registered. Entities are strongly encouraged to revalidate their registration as often as needed to ensure their information is up to date and reflects changes that may have been to the entity’s DUNS or IRS information.

D.4. Submission Date and Time

Applications must be submitted (not postmarked by) no later than:

March 15, 2022, 4:00 p.m. Mountain Daylight Time (MDT)

Proposals received after the application deadline will not be considered unless it can be determined that the delay was caused by Reclamation mishandling or technical issues with the Grants.gov application system. Please note that difficulties related to an applicant’s [Grants.gov](#) profile (e.g., incorrect organizational representative), uploading documents to [Grants.gov](#), or an applicant’s SAM registration are not considered technical issues with the [Grants.gov](#) system.

Please note that any application submitted for funding under this NOFO may be subjected to a Freedom of Information Act (FOIA) request (5 U.S.C. §552, as amended by P.L. No. 110-175), and as a result, may be made publicly available. Following awards of funding, Reclamation will post all successful applications on the Reclamation website after conducting any redactions determined necessary by Reclamation, in consultation with the recipient.

D.4.1. Application Delivery Instructions

Applications may be submitted electronically through Grants.gov (www.grants.gov) or hard copies may be submitted to either one of the following addresses. Under no circumstances will applications received through any other method (such as email or fax) be considered eligible for award.

By mail or USPS overnight services:

Bureau of Reclamation
Financial Assistance Operations Section, Attn: NOFO Team
P.O. Box 25007, MS 84-27133
Denver, CO 80225

All other express delivery services and courier services:

Bureau of Reclamation Mail Services, Attn: NOFO Team (MS 84-27133)
Denver Federal Center, Bldg. 67, Rm. 152
6th Avenue and Kipling Street
Denver, CO 80225

D.4.2. Instructions for Submission of Project Application

Each applicant shall submit an application in accordance with the instructions contained in this section.

D.4.2.1. Applications Submitted by Mail, Express Delivery, or Courier Services

Please follow these instructions to submit your application by mail, express delivery, or courier services.

- Applicants shall submit one copy of all application documents for hardcopy submissions. Only use a binder clip for documents submitted—do not use staples or other binding.
- Hard copy applications may be submitted by mail, express delivery, or courier services to the addresses identified in this NOFO.
- Materials arriving separately will not be included in the application package and may result in the application being rejected or not funded. This does not apply to funding commitment letters or official resolutions. Letters of support received after the application deadline for this NOFO will not be considered in the evaluation of the proposal.
- Faxed and emailed copies of application documents will not be accepted.
- Do not include a cover letter or company literature/brochure with the application. All pertinent information must be included in the application package.

D.4.2.2. Applications Submitted Electronically

If the applicant chooses to submit an electronic application, it must be submitted through Grants.gov (www.grants.gov). Applications submitted through GrantSolutions will **not** be accepted. Reclamation encourages applicants to submit their applications for funding electronically through the URL: www.grants.gov/applicants/apply-for-grants.html. Applicant resource documents and a full set of instructions for registering with Grants.gov and completing and submitting applications online are available at: www.grants.gov/applicants/apply-for-grants.html.

- Please note that submission of an application electronically requires prior registration through Grants.gov, which may take 7 to 21 days. Please see registration instructions at www.grants.gov/applicants/apply-for-grants.html. **In addition, please note that the Grants.gov system only accepts applications submitted by individuals that are registered in SAM as both a user and an Authorized Organizational Representative (AOR).**
- Applicants have experienced significant delays when attempting to submit applications through Grants.gov. If you plan to submit your application through Grants.gov, you are encouraged to submit your application several days prior to the application deadline. **If you are a properly registered Grants.gov applicant and encounter problems with the Grants.gov application submission process, you must contact the Grants.gov Help Desk to obtain a case number. This case number will provide evidence of your attempt to submit an application prior to the submission deadline.**

Section D: Application and Submission Information

Regardless of the delivery method used, you must ensure that your proposal arrives by the date and time deadline stated in this NOFO. Applications received after this date and time due to weather or express delivery/courier performance will not be considered for award. Late applications will not be considered unless it is determined that the delay was caused by Reclamation mishandling or by a problem with the [Grants.gov](https://www.grants.gov) application system. Please note that difficulties related to an applicant's [Grants.gov](https://www.grants.gov) profile (e.g., incorrect AOR), uploading documents to [Grants.gov](https://www.grants.gov), or an applicant's SAM registration are not considered technical issues with the [Grants.gov](https://www.grants.gov) system.

D.4.2.3. Acknowledgement of Application Receipt

If an application is submitted by mail, express delivery, or courier, Reclamation will notify you in writing that your application was received. If an application is submitted through [Grants.gov](https://www.grants.gov), you will receive an email acknowledging receipt of the application from [Grants.gov](https://www.grants.gov). In addition, Reclamation will notify you via email that your application was successfully downloaded from [Grants.gov](https://www.grants.gov).

D.5. Intergovernmental Review

This NOFO is not subject to Executive Order (E.O.) 12372, "Intergovernmental Review of Federal Programs."

D.6. Funding Restrictions: Pre-award Costs

Project costs incurred prior to the date of award may be submitted for consideration as an allowable reimbursable expense or as a non-Federal cost share as long as they were incurred after the date of Reclamation's feasibility study review findings.

Reclamation will review the proposed pre-award costs to determine if they are allowable in accordance with the applicable cost principles. To be considered allowable, any pre-award costs proposed for consideration under the new awards must comply with all applicable requirements under this NOFO.

D.7. Automated Standard Application for Payments Registration

All applicants must also be registered with and willing to process all payments through the Department of Treasury Automated Standard Application for Payments (ASAP) system. All recipients with active financial assistance agreements with Reclamation must be enrolled in ASAP under the appropriate Agency Location Code(s) and the Data Universal Number System (DUNS) Number prior to the award of funds. If a recipient has multiple DUNS numbers they must separately enroll within ASAP for each unique DUNS Number and/or Agency.

Note: If your entity is currently enrolled in the ASAP system with an agency other than Reclamation, you must enroll specifically with Reclamation in order to process payments.

Section E. Application Review Information

E.1. Technical Proposal: Evaluation Criteria

The evaluation criteria portion should be addressed in the technical proposal section of the application. Applications should thoroughly address each criterion and any subcriterion in the order presented below. **Applications will be evaluated against the evaluation criteria listed below.**

Note: It is suggested that applicants copy and paste the below criteria and subcriteria into their applications to ensure that all necessary information is adequately addressed.

The evaluation criteria should be applied to the Project as a whole, not just the Project activities that will be completed over the next 2 years.

The evaluation criteria total 100 points as shown in Table 3.

Table 3. Evaluation Criteria Points

Criterion	Points
Evaluation Criterion 1—Water Supply	35
Evaluation Criterion 2—Environment and Water Quality	18
Evaluation Criterion 3—Economic Benefits	25
Evaluation Criterion 4—Reclamation's Obligations and Benefits to Rural or Economically Disadvantaged Communities	12
Evaluation Criterion 5—Watershed Perspective	10

E.1.1. Evaluation Criterion 1—Water Supply (35 points)

E.1.1.1. Subcriterion No. 1a—Stretching Water Supplies (18 points)

Points will be awarded based on the extent to which the Project is expected to secure and stretch reliable water supplies. Consideration will be given to the amount of water expected to be made available by the Project; the extent to which the Project will reduce demands on existing water supplies and/or facilities and/or reduce, postpone, or eliminate the development of new water supplies; and the performance measures that will be used to measure the benefits of the Project to otherwise reduce water diversions.

1. How many acre-feet of water are expected to be made available each year upon completion of the Project? What percentage of the present and/or future annual demand in the project sponsor's service area will the Project's reclaimed water provide upon Project completion? The percentage should be based on the total service area demand, not just recycled water demand. Use the total capacity of the entire Project upon completion, not just the water that will be produced by the activities that will be completed over the next 2 years.
2. Will the Project reduce, postpone, or eliminate the development of new or expanded non-recycled water supplies? Explain.

Section E. Application Review Information

3. Will the Project alleviate pressure on existing water supplies and/or facilities? If so, please describe the existing water supplies, identify the supplies and/or facilities that will be impacted and explain how they will be impacted by the Project, including quantifications where applicable.
4. What performance measures will be used to quantify actual benefits upon completion of the Project?

E.1.1.2. Subcriterion No.1b—Contributions to Water Supply Sustainability (17 points)

Points will be awarded for Projects that contribute to a more reliable water supply.

1. Will the Project make water available to address a specific concern? Consider the number of acre-feet of water and/or the percentage of overall water supply to be made available by the Project. Explain the specific concern and its severity. Also explain the role of the Project in addressing that concern and the extent to which the Project will address it. Specific concerns may include, but are not limited to:
 - Water supply shortages
 - Water supply reliability
 - Groundwater depletion
 - Water quality issues
 - Natural disasters that may impact water supply infrastructure
 - Heightened competition for water supplies
 - Availability of alternative supplies
 - Increasing cost of water supplies
2. Will the project address climate change? E.O. 14008: *Tackling the Climate Crisis at Home and Abroad* focuses on increasing resilience to climate change and supporting climate resilient development. E.O. 14008 emphasizes the need to prioritize and take robust actions to reduce climate pollution; increase resilience to the impacts of climate change; protect public health; and conserve our lands, waters, oceans, and biodiversity. Please describe how the project will address climate change.
3. Will the project help create additional flexibility to address drought? Will water made available by this Project continue to be available during periods of drought? To what extent is the water made available by this Project more drought resistant than alternative water supply options? Explain.
4. Has the area served by the Project been identified by the United States Drought Monitor as experiencing severe, extreme, or exceptional drought at any time in the last 4 years?
5. Has the area served by the Project been designated as a drought disaster area by the State in the last 4 years?

E.1.2. Evaluation Criterion 2—Environment and Water Quality (18 points)

Points will be awarded based on the extent to which the Project will improve surface, groundwater, or effluent discharge quality; will restore or enhance habitat for non-listed species; will address problems caused by invasive species; or will provide water or habitat for federally listed threatened or endangered species. Indirect benefits of the project will also be considered under this criterion.

1. Will the Project improve the quality of surface water or groundwater? If so, how?
2. Will the Project improve effluent quality beyond levels necessary to meet State or Federal discharge requirements?
3. Will the Project improve flow conditions in a natural stream channel? If so, how?
4. Will the Project restore or enhance habitat for non-listed species? If so, how?
5. Will the Project provide water or habitat for federally listed threatened or endangered species? If so, how?

E.1.3. Evaluation Criterion 3—Economic Benefits (25 points)**E.1.3.1. Subcriterion No. 3a—Cost Effectiveness (15 points)**

Points will be awarded based on the cost per acre-foot of water expected to be delivered upon completion of the Project and how the cost of the Project compares to a non-reclaimed water alternative. Please use costs related to the entire Project, not just the cost of work over the next 2 years or the phase that is currently being constructed. Costs should be provided for the entire Project described in the Reclamation approved feasibility study.

1. Reclamation will calculate the cost per acre-foot of water produced by the Project using information provided by Project sponsors. For a description of how this calculation is done, please see the Title XVI Frequently Asked Questions webpage at <https://www.usbr.gov/watersmart/title/faq.html>.

Please provide the following information for this calculation:

- (a) The total estimated construction costs, by year, for the Project (include all previous and planned work) as shown in Table 4.

Table 4. Estimated Construction Costs by Year

	Year	Cost
1.		
2.		
3.		
4.		
5.		

	Year	Cost
6.		
7.		
8.		
9.		
10.		

Section E. Application Review Information

- (b) The total estimated or actual costs to plan and design the Project. Note: This should not include the cost to complete a feasibility study that meets the requirements of Reclamation's Directives and Standards WTR 11-01, *Title XVI Water Reclamation and Reuse Program Feasibility Study Review Process*, at www.usbr.gov/recman/wtr/wtr11-01.pdf.
- (c) The average annual operation and maintenance costs for the life of the Project. Please do not include periodic replacement costs in the operation and maintenance costs. Periodic replacement costs should be provided separately in response to (f) below. Note: this is an annual cost—not total cost.
- (d) The year the Project will begin to deliver reclaimed water.
- (e) The Projected life (in years) that the Project is expected to last. Note: this should be measured from the time the Project starts delivering water.
- (f) All estimated replacement costs by year as shown in Table 5. If there are multiple replacement costs in one (1) year, or at the same interval, please total them and put them on one line with the year or interval.

Table 5. Replacement Costs by Year

1.		
2.		
3.		
4.		
5.		
6.		
7.		

- (g) The maximum volume of water (in acre-feet) that will be produced annually upon completion of the Project. This volume of water must correspond to the costs provided above. If costs are only provided for a portion or phase of the project, then only the water produced by that same portion or phase of the project will be considered under this criterion.
2. Reclamation will calculate the cost per acre-foot for the Title XVI Project using the information requested in question No. 1 and compare it to the non-reclaimed water alternative, and any other water supply options that the applicant identifies to evaluate the cost effectiveness of the Project. Please provide the following information for this comparison:
- (a) A description of the conditions that exist in the area and projections of the future with, and without, the Project.
 - (b) Provide the cost per acre-foot of other water supply alternatives that could be implemented by the non-Federal Project sponsor in lieu of the Project. This must include, but is not limited to, one non-reclaimed water alternative that would satisfy the same demand as the Project. Other water supply alternatives beyond one non-reclaimed water alternative are not required, but may be provided where available to demonstrate the cost effectiveness of the Project.

Section E. Application Review Information

- (c) If available, provide the cost per acre-foot of one water supply project with similar characteristics to the Project. This information does not have to be provided if it is not available. It is intended to provide another possible comparison to demonstrate the cost effectiveness of the Project.
- (d) Discussion of the degree to which the Project is cost-effective. Where applicable, include a discussion of why the Project may be cost effective even if the overall Project cost appears to be high.

E.1.3.2. Subcriterion No. 3b—Economic Analysis and Project Benefits (10 points)

Points will be awarded based on the analysis of the Project's benefits relative to the Project's costs. Please use costs related to the entire Project—not just the cost of work over the next 2 years.

1. Summarize the economic analysis performed for the Project including information on the Project's estimated benefits and costs. Describe the methodologies used for the analysis that has been conducted. Points will be awarded based on a comparison of the benefits and costs of the Project. The information provided should include:
 - (a) Quantified and monetized Project costs, including capital costs and operations and maintenance costs.
 - (b) Quantified and monetized Project benefits. This includes benefits that can be quantified and expressed as a monetized benefit per acre-foot. These may include, but are not limited to, benefits related to water supply quantity and water supply reliability, recreational benefits, ecosystem benefits, water quality, energy efficiency, and environmental compliance and permitting. Benefits may also include the avoided costs of no action (i.e., the costs that would be incurred if the Project were not implemented), and the willingness of users or customers to pay for a benefit or to avoid a negative outcome (e.g., the willingness of households to pay for a water supply system that would reduce groundwater overdraft). If quantified and/or monetized information for these benefits is not available, they may be addressed in response to question two below.
 - (c) A comparison of the Project's quantified and monetized benefits and costs.

**Please note that information must be included in the proposal to be considered. Scores will not be based on information provided in the Project's feasibility study if the information is not included in the proposal.*

2. Some Project benefits may be difficult to quantify and/or monetize. Describe any economic benefits of the Project that are difficult to quantify and/or monetize. Provide a qualitative discussion of the economic impact of these benefits. Points will be awarded based on the potential economic impact of the Project-related benefits. Some examples of benefits may include, but are not limited to, acres of land or stream miles that may be benefitted or not harmed, benefits to habitat or species, flood risk mitigation, local impacts on residents and/or businesses, job creation, and regional impacts. This may also include benefits listed in question one, if they have not been monetized (e.g., water reliability, water quality, and recreation).

Section E. Application Review Information

E.1.4. Evaluation Criterion 4—Reclamation’s Obligations and Benefits to Rural or Economically Disadvantaged Communities (12 points)

E.1.4.1. Subcriterion No. 4a—Legal and Contractual Water Supply Obligations (4 Points)

Points will be awarded for Projects that help to meet Reclamation’s legal and contractual obligations.

Explain how the Project relates to Reclamation’s mission and/or serves a Federal interest. Does the Project help fulfill any of Reclamation’s legal or contractual obligations such as providing water for Indian Tribes, water right settlements, river restoration, minimum flows, legal court orders, or other obligations? If so, explain.

Note: a Project may help Reclamation fulfill its obligations even if the project sponsor is not a Reclamation contractor, and indirect benefits to Reclamation will also be considered under this criterion.

The President’s memorandum, “Tribal Consultation and Strengthening Nation-to Nation Relationships,” asserts the importance of honoring the Federal government’s commitments to Tribal Nations. If the project will provide water for a Tribe, identify whether the project will increase water supply sustainability for an Indian Tribe, directly support tribal resilience to climate change or drought impacts, or provide other tribal benefits such as improved public health and safety through water quality improvements or economic growth opportunities.

E.1.4.2. Subcriterion No. 4b—Benefits to Rural or Economically Disadvantaged Communities (8 Points)

Points will be awarded based on the extent to which the Project serves rural communities or economically disadvantaged communities in rural or urban areas.

1. Does the Project serve a rural community, or are there any rural communities within the Project sponsor’s service area? If so, provide supporting information. A rural community is defined as a community with fewer than 50,000 people. This may include rural areas that are part of a larger urban area.
2. E.O. 14008 and E.O. 13985 affirm the advancement of environmental justice and equity for all through the development and funding of programs to invest in disadvantaged or underserved communities.

Does the Project serve an economically disadvantaged community, or are there any economically disadvantaged communities within the Project sponsor’s service area? If so, provide supporting information. This may include neighborhoods or census tracts within a larger service area that are economically disadvantaged. A community may be considered disadvantaged based on a combination of variables that may include:

- Low income, high and/or persistent poverty
- High unemployment and underemployment
- Racial and ethnic residential segregation, particularly where the segregation stems from discrimination by government entities
- Linguistic isolation
- High housing cost burden and substandard housing

- Distressed neighborhoods
- High transportation cost burden and/or low transportation access
- Disproportionate environmental stressor burden and high cumulative impacts
- Limited water and sanitation access and affordability
- Disproportionate impacts from climate change
- High energy cost burden and low energy access
- Jobs lost through energy transition
- Access to healthcare

E.1.5. Evaluation Criterion 5—Watershed Perspective (10 Points)

Points will be awarded based on the extent to which the Project promotes or applies a watershed perspective by implementing an integrated resources management approach, implementing a regional planning effort, forming collaborative partnerships with other entities, or conducting public outreach.

A watershed perspective generally means an approach to planning directed at meeting the needs of geographically dispersed localities across a region or a watershed that will take advantage of economies of scale and foster opportunities for partnerships. This approach also takes into account the interconnectedness of water and land resources, encourages the active participation of all interested groups, and uses the full spectrum of technical disciplines in activities and decision making. Does the Project:

1. Implement a regional or state water plan or an integrated resource management plan? Explain.
2. Help meet the water supply needs of a large geographic area, region, or watershed? Explain.
3. Promote collaborative partnerships to address water-related issues? Explain.
4. Include public outreach and opportunities for the public to learn about the project? Explain.

E.2. Review and Selection Process

The Federal government reserves the right to reject any and all applications that do not meet the requirements or objectives of this NOFO. Awards will be made for Projects most advantageous to the Federal government. Award selection may be made to maintain balance among the eligible projects listed in this NOFO. The evaluation process will be comprised of the steps described in the following subsections.

E.2.1. Initial Screening

All application packages will be screened to ensure that:

- The applicant meets the eligibility requirements stated in this NOFO.
- The applicant meets the unique entity identifier and SAM registration requirements stated in this NOFO (this may be completed up to 30 days after the application deadline).

Section E. Application Review Information

- The application meets the content requirements of the NOFO package, including submission of a technical proposal, including responses to the evaluation criteria, a funding plan, budget proposal, and budget narrative.
- The application contains a properly executed SF-424 Application for Federal Assistance, form SF-424C Budget Information—Construction Programs, and form SF-424D Assurances—Construction Programs.
- The application includes an official resolution, adopted by the applicant's board of directors, governing body, or appropriate authorized official (this may be submitted up to 60 days after the application deadline).
- The application and funding plan meets or exceeds the minimum non-Federal cost share requirements identified in this NOFO.

Reclamation reserves the right to remove an application from funding consideration if it does not pass all of the Initial Screening criteria listed above. An applicant that has submitted an application that is determined to be ineligible for funding will be notified along with other applicants, or sooner, if possible.

E.2.2. Application Review Committee Evaluation

Evaluation criteria will comprise the total evaluation weight as stated in the *Section E. Application Review Information*. Applications will be scored against the evaluation criteria by an Application Review Committee (ARC), made up of experts in relevant disciplines selected from across Reclamation. The ARC will also review the application to ensure that the proposed Project meets the description of eligible Projects, meets the feasibility study requirement and meets the objective of this NOFO.

Prior to and during ARC review, Reclamation may contact applicants to request clarifications to the information provided, if necessary.

E.2.3. Red-Flag Review

Following the results of the ARC review, Reclamation offices will review the top-ranking applications and will identify any reasons why a proposed Project would not be feasible or otherwise advisable, including environmental or cultural resources compliance issues, permitting issues, legal issues, or financial position. Positive or negative past performance by the applicant and any partners in previous working relationships with Reclamation may be considered, including whether the applicant is making significant progress toward completing outstanding financial assistance agreements and whether the applicant is in compliance with all reporting requirements associated with previously funded projects.

In addition, during this review, Reclamation will address any specific concerns or questions raised by members of the ARC, conduct a preliminary budget review, and evaluate the applicant's ability to meet cost share as required.

E.2.4. Managerial Review

Reclamation management will prioritize Projects to ensure the total amount of all awards does not exceed available funding levels. Management will also ensure that all Projects meet the scope, priorities, requirements, and objectives of this NOFO. Management may also prioritize Projects to ensure that multiple project types are represented. After completing the Managerial Review, Reclamation may notify applicants whose proposals have been selected for award consideration.

E.2.5. Pre-Award Clearances and Approvals

The following pre-award clearances and approvals must be obtained before an award of funding is made. If the results of all pre-award reviews and clearances are satisfactory, an award of funding will be made once the agreement is finalized (approximately 1 to 3 months from the date of initial selection). If the results of pre-award reviews and clearances are unsatisfactory, consideration of funding for the Project may be withdrawn.

E.2.5.1. Environmental and Cultural Review

If the work planned to be completed prior to September 30, 2025, includes construction activities, Reclamation will forward the proposal to the appropriate Reclamation Regional or Area Office for completion of environmental and cultural compliance. However, in most cases, planning and design does not involve ground-disturbing activities and may proceed prior to completion of the environmental and cultural review. The financial assistance agreement will describe how compliance will be carried out and how the costs will be paid. Ground-disturbing activities may not occur until this second level of environmental analysis is completed.

Note: Any construction costs incurred prior to the completion of environmental and cultural compliance are not eligible for reimbursement and cannot be used to meet the non-Federal cost-share requirement.

E.2.5.2. Budget Analysis and Business Evaluation

A Reclamation Grants Officer will also conduct a detailed budget analysis and complete a business evaluation and responsibility determination. During this evaluation, the Grants Officer will consider several factors that are important, but not quantified, such as:

- Allowability, allocability, and reasonableness of proposed costs.
- Financial strength and stability of the applicant.
- Past performance, including satisfactory compliance with all terms and conditions of previous awards, such as environmental compliance issues, reporting requirements, proper procurement of supplies and services, and audit compliance.
- Adequacy of personnel practices, procurement procedures, and accounting policies and procedures, as established by applicable Office of Management and Budget circulars.

E.3. Federal Award Performance Integrity Information System

Prior to making an award with a Federal total estimated amount greater than \$150,000, Reclamation is required to review and consider any information about the applicant that is in the designated integrity and performance system accessible through SAM (currently Federal Award Performance Integrity Information System [FAPIIS]) (see 41 U.S.C. §2313). Applicants, at their option, may review information in the designated integrity and performance systems accessible through SAM and comment on any information about itself that a Federal awarding agency previously entered and is currently in the designated integrity and performance system accessible through SAM. Reclamation will consider any comments by applicants, in addition to the other information in FAPIIS, in making a judgment about the applicants' integrity, business ethics, and record of performance under Federal awards when completing the review of risk posed by applicants as described in 2 CFR §200.205 Federal awarding agency review of risk posed by applicants.

Section F. Federal Award Administration Information

F.1. Federal Award Notices

Successful applicants will receive a notice of selection signed by a Reclamation Grants Officer by email. This notice is not an authorization to begin performance.

F.2. Administrative and National Policy Requirements

See the [“DOI Standard Terms and Conditions”](#) for the administrative and national policy requirements applicable to Department awards.

F.2.1. Environmental and Cultural Resources Compliance

All Projects being considered for award funding will require compliance with the NEPA before any ground-disturbing activity may begin. Compliance with all applicable Federal, state, and local environmental, cultural, and paleontological resource protection laws and regulations is also required. These may include, but are not limited to, the CWA, ESA, NHPA; consultation with potentially affected tribes; and consultation with the State Historic Preservation Office. Note: Reclamation will be the lead Federal agency for NEPA compliance and will be responsible for evaluating technical information and ensuring that natural resources, cultural, and socioeconomic concerns are appropriately addressed. As the lead agency, Reclamation is solely responsible for determining the appropriate level of NEPA compliance. Further, Reclamation is responsible to ensure that findings under NEPA, and consultations, as appropriate, will support Reclamation’s decision on whether to fund a project. **Environmental and cultural resources compliance costs are considered Project costs and should be included in the Project budget.**

Under no circumstances may an applicant begin any ground-disturbing activities (e.g., grading, clearing, and other preliminary activities) on a Project before environmental and cultural resources compliance is complete and Reclamation explicitly authorizes work to proceed. This pertains to all components of the proposed Project, including those that are part of the applicant’s non-Federal cost share. Reclamation will provide a successful applicant with information once such compliance is complete. An applicant that proceeds before environmental and cultural resources compliance is complete may risk forfeiting Reclamation funding under this NOFO.

F.2.2. Approvals and Permits

Recipients shall adhere to Federal, state, territorial, tribal, and local laws, regulations, and codes, as applicable, and shall obtain all required approvals and permits. Recipients shall also coordinate and obtain approvals from site owners and operators.

Section F. Federal Award Administration Information

F.2.3. Reclamation Administrative Costs

All costs incurred by Reclamation related to the development and administration of any award under this NOFO are considered part of the total costs of the Project, and the recipient will be required to provide non-Federal cost share for Reclamation's administrative costs. These costs include, but are not limited to, salary, overhead, travel, and other costs directly or indirectly related to the award, as determined by Reclamation. Following the completion of each quarter of the fiscal year, Reclamation will provide the recipient with a statement of Reclamation's costs for the previous quarter. The recipient may request explanations or a review of the costs included in the statement; however, Reclamation's determination as to the validity of the costs will be final. The recipient's required non-Federal cost share for Reclamation's costs will be deducted from payments processed by Reclamation for any award issued under this NOFO.

F.2.4. Real Property, 2 CFR §200.311

Real property, equipment, and intangible property that are acquired or improved with a Federal award must be held in trust by the non-Federal entity as trustee for the beneficiaries of the project or program under which the property was acquired or improved (2 CFR §200.316 *Property trust relationship*). Title to real property acquired or improved under a Federal award will vest upon acquisition in the non-Federal entity. Except as otherwise provided by Federal statutes or by the Federal awarding agency, real property will be used for the originally authorized purpose as long as needed for that purpose, during which time the non-Federal entity must not dispose of or encumber its title or other interests. When real property is no longer needed for the originally authorized purpose, the non-Federal entity must obtain disposition instructions from the Federal awarding agency or pass-through entity. As required by 2 CFR §200.329 *Reporting on real property*, recipients will be required to submit reports on the status of real property acquired or improved under a financial assistance agreement issued under this NOFO.

F.2.5. Additional Bipartisan Infrastructure Law Requirements

Wage Rate Requirements (Davis-Bacon Act)—Section 41101 of the Bipartisan Infrastructure Law requires that all laborers and mechanics employed by contractors or subcontractor in the performance of construction, alteration, or repair work on a project assisted in whole or in part by funding made available under the Bipartisan Infrastructure Law (P.L. 117-58) shall be paid wages at rates not less than those prevailing on similar projects in the locality, as determined by the Secretary of Labor in accordance with Subchapter IV of Chapter 31 of Title 40, United States Code (commonly referred to as the Davis-Bacon Act).

Application of Buy America Preference—Section 70914 of the Bipartisan Infrastructure Law requires that, unless a waiver is approved, funding made available for Federal financial assistance programs for infrastructure under the Law may only be obligated to projects where all of the iron, steel, and manufactured goods used in the project are produced in the United States.

F.3. Reporting Requirements and Distribution

If the applicant is awarded an agreement as a result of this NOFO, the applicant will be required to submit the following reports during the term of the agreement.

F.3.1. Financial Reports

Form SF-425—Federal Financial Report must be submitted on at least a semi-annual basis and with the final performance report.

F.3.2. Interim Performance Reports

The specific terms and conditions pertaining to the reporting requirements will be included in the financial assistance agreement.

Interim performance reports submitted on at least a semi-annual basis, that include the following information:

- A comparison of actual accomplishments to the milestones established by the financial assistance agreement for the period.
- The reasons why established milestones were not met, if applicable.
- The status of milestones from the previous reporting period that were not met, if applicable.
- Whether the Project is on schedule and within the original cost estimate.
- Any additional pertinent information or issues related to the status of the Project.
- Photographs documenting the Project are also appreciated. *Note: Reclamation may print photos with appropriate credit to the applicant.*

F.3.3. Final Performance Report

Recipients will be required to submit a final performance report encompassing the entire period of performance. The final performance report must include, but is not limited to, the following information:

- A brief description of the components of the Project and the work completed, including each element of the scope of work and the work completed at each stage of the Project.
- The goals and objectives of the Project and whether each of these was met, the reasons why goals and objectives were not met (if appropriate), and any problems, delays encountered in completing the Project, and whether or not the Project was completed within cost.
- Future tracking of Project benefits.
- A description of how the Project demonstrates collaboration, stakeholder involvement or the formation of partnerships, if applicable.
- Any other pertinent issues involving the Project.

Please note that final reports are public documents and may be made available on Reclamation's website.

F.4. Disclosures

F.4.1. Conflict of Interest

Recipients must notify the program immediately in writing of any conflict of interest that arise during the life of their Federal award, including those reported to them by any subrecipient under the award. Recipients must notify the program in writing if any employees, including subrecipient and contractor personnel, are related to, married to, or have a close personal relationship with any Federal employee in the Federal funding program or who otherwise may have been involved in the review and selection of the award. The term employee means any individual engaged in the performance of work pursuant to the Federal award. Recipients may not have a former Federal employee as a key project official, or in any other substantial role related to their award, whose participation put them out of compliance with the legal authorities addressing post-Government employment restrictions. See the [U.S. Office of Government Ethics website](#) for more information on these restrictions. Reclamation will examine each conflict of interest disclosure based on its particular facts and the nature of the project and will determine if a significant potential conflict exists. If it does, Reclamation will work with the recipient to determine an appropriate resolution. Failure to disclose and resolve conflicts of interest in a manner that satisfies Reclamation may result in any of the remedies described in 2 CFR 200.338 Remedies for Noncompliance, including termination of the award.

F.4.2. Other Mandatory Disclosures

The Non-Federal entity or applicant for a Federal award must disclose, in a timely manner, in writing to the Federal awarding agency or pass-through entity all violations of Federal criminal law involving fraud, bribery, or gratuity violations potentially affecting the Federal award. Non-Federal entities that receive a Federal award including the terms and conditions outlined in 2 CFR 200, Appendix XII—Award Term and Condition for Recipient Integrity and Performance Matters are required to report certain civil, criminal, or administrative proceedings to SAM. Failure to make required disclosures can result in any of the remedies described in 2 CFR 200.338 Remedies for Noncompliance, including suspension or debarment.

F.5. Data Availability

F.5.1. Applicability

The Department is committed to basing its decisions on the best available science and providing the American people with enough information to thoughtfully and substantively evaluate the data, methodology, and analysis used by the Department to inform its decisions.

F.5.2. Use of Data

The regulations at 2 CFR §200.315 apply to data produced under a Federal award, including the provision that the Federal government has the right to obtain, reproduce, publish, or otherwise use the data produced under a Federal award as well as authorize others to receive, reproduce, publish, or otherwise use such data for Federal purposes.

F.5.3. Availability of Data

The recipient shall make the data produced under this award and any subaward(s) available to the Government for public release, consistent with applicable law, to allow meaningful third-party evaluation and reproduction of:

- the scientific data relied upon;
- the analysis relied upon; and
- the methodology, including models, used to gather and analyze data.

F.6. Releasing Applications

Following awards of funding, Reclamation may post all successful applications on the Reclamation website after conducting any redactions determined necessary by Reclamation, in consultation with the recipient.

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Section G. Agency Contacts

There will be no pre-application conference. Organizations or individuals interested in submitting applications in response to this NOFO may direct questions to the Reclamation personnel identified below.

G.1. Reclamation Financial Assistance Contact

Questions regarding application and submission information and award administration may be submitted to sha-dro-fafoa@usbr.gov.

G.2. Reclamation Program Coordinator Contact

Questions regarding applicant and project eligibility and application review may be submitted to the attention of Ms. Amanda Erath, Program Analyst, as follows:

By mail: Bureau of Reclamation
Water Resources and Planning Office
Attn: Ms. Amanda Erath
P.O. Box 25007, MS 86-69200
Denver, CO 80225

By e-mail: acrath@usbr.gov

By phone: 303-445-2766

G.3. Application System Technical Support

Name: Grants.gov Customer Support
Telephone: 1-800-518-4726
Email: Support@grants.gov

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Section H. Other Information

The following is a brief overview of NEPA, NHPA, and ESA. This information is only relevant to proposals where the funding request includes ground disturbing activities. While these statutes are not the only environmental laws that may apply to the Project, they are the Federal laws that most frequently do apply. Compliance with all applicable environmental laws will be initiated by Reclamation concurrently, immediately following the initial recommendation to award a financial assistance agreement under this NOFO. The descriptions below are intended to provide you with information about the environmental compliance issues that may apply to your Project and to help you budget appropriately for the associated compliance costs.

H.1. National Environmental Policy Act

NEPA requires Federal agencies such as Reclamation to evaluate, during the decision-making process, the potential environmental effects of a proposed action and any reasonable mitigation measures. Before Reclamation can provide funding for ground disturbing activities under this NOFO, Reclamation must comply with NEPA. Compliance with NEPA can be accomplished in several ways, depending upon the degree and significance of environmental impacts associated with the proposal:

Some projects may fit within a recognized **Categorical Exclusion (CE)** to NEPA (i.e., one of the established categories of activities that generally do not have significant impacts on the environment). If a project fits within a CE, no further NEPA compliance measures are necessary. Use of a CE can involve simple identification of an applicable **Department CE** or documentation of a **Reclamation CE** using a **Categorical Exclusion Checklist (CEC)**. If a CE is being considered, Reclamation will determine the applicability of the CE and whether extraordinary circumstances (i.e., reasons that the CE cannot be applied) exist. That process can take anywhere from 1 day to about 30 days, depending upon the specific situation.

If the Project does not fit within a CE, compliance with NEPA might require preparation of an **Environmental Assessment/Finding of No Significant Impact (EA/FONSI)**. Generally, where no CE applies but there are not believed to be any significant impacts associated with the proposed action, an EA will be required. The EA is used to determine whether any potentially significant effects exist (which would trigger the further step of an **Environmental Impact Statement (EIS)**, below). If no potentially significant effects are identified, the EA process ends with the preparation of a FONSI. The EA/FONSI process is more detailed than the CE/CEC process and can take weeks or even months to complete. Consultation with other agencies and public notification are part of the EA process.

Section H. Other Information

The most detailed form of NEPA compliance, where a proposed Project has potentially significant environmental effects, is completion of an **EIS** and **Record of Decision (ROD)**. An EIS requires months or years to complete, and the process includes considerable public involvement, including mandatory public reviews of draft documents. It is not anticipated that Projects proposed under this program will require completion of an EIS.

During the NEPA process, potential impacts of a Project are evaluated in context and in terms of intensity (e.g., will the proposed action affect the only native prairie in the county? Will the proposed action reduce water supplied to a wetland by 1 percent? or 95 percent?). The best source of information concerning the potentially significant issues in a Project area is the local Reclamation staff that has experience in evaluating effects in context and by intensity.

Reclamation has the sole discretion to determine what level of environmental NEPA compliance is required. If another Federal agency is involved, Reclamation will coordinate to determine the appropriate level of compliance. You are encouraged to contact your regional or area Reclamation office. See <https://www.usbr.gov/watersmart/title/contacts.html> with questions regarding NEPA compliance issues. You may also contact the Program Coordinator for further information (see *Section G. Agency Contacts*).

H.2. National Historic Preservation Act

To comply with Section 106 of the NHPA, Reclamation must consider whether a proposed Project has the **potential to cause effects to historic properties**, before we can complete an award under this NOFO. Historic properties are cultural resources (historic or prehistoric districts, sites, buildings, structures, or objects) that qualify for inclusion in the National Register of Historic Places. In some cases, water delivery infrastructure that is over 50 years old can be considered a historic property that is subject to review.

If a proposal is selected for initial award, the recipient will work with Reclamation to complete the Section 106 process. Compliance can be accomplished in several ways, depending on how complex the issues are, including:

- If Reclamation determines that the proposed Project does not have the potential to cause effects to historic properties, then Reclamation will document its findings and the Section 106 process will be concluded. This can take anywhere from a couple of days to 1 month.
- If Reclamation determines that the proposed Project could have effects on historic properties, a multi-step process, involving consultation with the State Historic Preservation Officer and other entities, will follow. Depending on the nature of the Project and impacts to cultural resources, consultation can be complex and time consuming. The process includes:
 - Determining whether additional information is necessary
 - Evaluating the significance of identified cultural resources
 - Assessing the effect of the Project on historic properties

- Determining whether the Project would have an adverse effect and evaluation of alternatives or modifications to avoid, minimize, or mitigate the effects

A Memorandum of Agreement is then used to record and implement any necessary measures. At a minimum, completion of the multi-step Section 106 process takes about 2 months.

- Among the types of historic properties that might be affected by projects proposed under this NOFO are **historic irrigation systems** and **archaeological sites**. An irrigation system or a component of an irrigation system (e.g., a canal or headgate) is more likely to qualify as historic if it is more than 50 years old, if it is the oldest (or an early) system/component in the surrounding area, and if the system/component has not been significantly altered or modernized. In general, proposed projects that involve ground disturbance, or the alteration of existing older structures, are more likely to have the potential to affect cultural resources. However, the level of cultural resources compliance required, and the associated cost, depends on a case-by-case review of the circumstances presented by each proposal.

You should contact your State Historic Preservation Office and your local Reclamation office's cultural resources specialist to determine what, if any, cultural resources surveys have been conducted in the Project area. See <https://www.usbr.gov/cultural/crmstaff.html> for a list of Reclamation cultural resource specialists. If an applicant has previously received Federal financial assistance it is possible that a cultural resources survey has already been completed.

H.3. Endangered Species Act

Pursuant to Section 7 of the ESA, each Federal agency is required to consult with the U.S. Fish and Wildlife Service (USFWS) or the National Oceanic and Atmospheric Administration (NOAA) Fisheries Service to ensure any action it authorizes, funds, or carries out is not likely to **jeopardize the continued existence of any endangered or threatened species or destroy or adversely modify any designated critical habitat**.

Before Reclamation can approve funding for the implementation of a proposed Project, it is required to comply with Section 7 of the ESA. The steps necessary for ESA compliance vary, depending on the presence of endangered or threatened species and the effects of the proposed Project. A rough overview of the possible course of ESA compliance is:

- If Reclamation can determine that there are no endangered or threatened species or designated critical habitat in the Project area, then the ESA review is complete and no further compliance measures are required. This process can take anywhere from 1 day to 1 month.
- If Reclamation determines that endangered or threatened species may be affected by the Project, then a **Biological Assessment** must be prepared by Reclamation. The Biological Assessment is used to help determine whether a proposed action may affect a listed species or its designated critical habitat. The Biological Assessment may result in a determination that a proposed action **is not likely to adversely affect** any endangered or threatened species.

Section H. Other Information

If the USFWS/NOAA Fisheries concurs in writing, then no further consultation is required and the ESA compliance is complete. Depending on the scope and complexity of the proposed action, preparation of a Biological Assessment can range from days to weeks or even months. The USFWS/NOAA Fisheries generally respond to requests for concurrence within 30 days.

- If it is determined that the Project **is likely to adversely affect listed species**, further consultation (**formal consultation**) with USFWS or NOAA Fisheries Service is required to comply with the ESA. The process includes the creation of a **Biological Opinion** by the USFWS/NOAA Fisheries Service, including a determination of whether the Project would **jeopardize** listed species and, if so, whether any **reasonable and prudent** alternatives to the proposed Project are necessary to avoid jeopardy. Nondiscretionary **reasonable and prudent measures** and **terms and conditions** to minimize the impact of incidental take may also be included. Under the timeframes established in the ESA regulations, the Biological Opinion is issued within 135 days from the date that formal consultation was initiated, unless an extension of time is agreed upon.

The time, cost, and extent of the work necessary to comply with the ESA depends upon whether endangered or threatened species are present in the Project area and, if so, whether the Project might have effects on those species significant enough to require formal consultation.

ESA compliance is often conducted parallel to the NEPA compliance process and, as in the case of a CEC, documented simultaneously. The best source of information concerning the compliance with the ESA in a particular Project area is the local Reclamation environmental staff that can be helpful in determining the presence of listed species and possible effects that would require consultation with the USFWS or NOAA Fisheries. Contact your regional or area Reclamation office with questions regarding ESA [compliance](#) issues.



**PADRE DAM
MUNICIPAL
WATER DISTRICT
EAST COUNTY
ADVANCED
WATER
PURIFICATION
PROGRAM –
PHASE II
PROJECT
FEASIBILITY
STUDY**

10509 Vista Sorrento Pkwy, Suite 205
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COMMITMENT & INTEGRITY DRIVE RESULTS

Project Number:
0011532
**Padre Dam Municipal
Water District**
October 2019

TABLE OF CONTENTS

SECTION	PAGE NO.
1. INTRODUCTION.....	1-1
1.1 General Background.....	1-2
1.2 Project Area Description.....	1-4
1.2.1 Land Use	1-8
1.2.2 Population Projections	1-13
1.3 Existing Recycled Water Infrastructure.....	1-13
1.3.1 Existing	1-13
1.3.2 Phase I Infrastructure	1-15
2. STATEMENT OF PROBLEM AND NEEDS	2-1
2.1 Project Need.....	2-1
2.2 Water Supplies	2-1
2.2.1 Helix.....	2-1
2.2.2 Padre Dam.....	2-2
2.3 Water Demands.....	2-2
2.3.1 Helix.....	2-2
2.3.2 Padre Dam.....	2-3
2.4 Water Quality.....	2-3
2.4.1 Imported Water Quality	2-3
2.4.2 Recycled Water Quality	2-4
3. WATER RECLAMATION AND REUSE OPPORTUNITIES	3-1
3.1 Potential Reclaimed Water Uses.....	3-1
3.2 Market Assessment.....	3-1
3.2.1 Non-Potable Reuse Market Assessment.....	3-1
3.2.2 Groundwater Recharge and Recovery Market Assessment.....	3-2
3.2.3 Surface Water Augmentation Market Assessment	3-2
3.3 Water Reuse Considerations.....	3-2
3.4 Water and Wastewater Agencies	3-3
3.5 Potential Sources of Water.....	3-3
3.6 Source Water Facilities.....	3-3
3.7 Existing Water Reuse.....	3-4
3.8 Current and Projected Wastewater	3-4
4. DESCRIPTION OF ALTERNATIVES	4-1
4.1 Non-Federal Funding Condition	4-1
4.2 Objective of Alternatives.....	4-1
4.3 Alternative Measures.....	4-1
4.3.1 Alternative 1 – Maximizing NPR	4-1
4.3.2 Alternative 2 – Potable Reuse: Groundwater Recharge	4-2
5. ECONOMIC ANALYSIS	5-1
5.1 Existing and Projected Conditions in Service Area.....	5-1
5.2 Proposed Phase II Project Cost Estimate.....	5-2

5.3	Cost Comparison of Alternatives	5-5
5.3.1	No Project Alternative Cost Comparison	5-6
5.3.1.1	No Project Alternative Cost Estimate	5-6
5.3.1.2	No Project Alternative Cost Comparison with Phase II Project.....	5-8
5.3.2	Alternative 1 – Maximizing NPR Cost Comparison.....	5-9
5.3.2.1	Alternative 1 - Maximizing NPR Cost Estimate.....	5-9
5.3.2.2	Alternative 1 Cost Comparison with Phase II Project	5-12
6.	SELECTION OF THE PROPOSED TITLE XVI PROJECT.....	6-1
6.1	Justification of Selection	6-1
6.1.1	Elimination of Need for Expanded Water Supplies	6-1
6.1.2	Reduction of Water Withdrawals from Natural Waterways and Reduction of Demand on Federal Water Supplies	6-2
6.1.3	Reduction of Expanded Wastewater Facilities.....	6-3
7.	ENVIRONMENTAL CONSIDERATION AND POTENTIAL EFFECTS.....	7-1
7.1	Environmental Compliance Overview.....	7-1
7.1.1	Water Supply and Water Quality.....	7-2
7.1.2	Public Outreach	7-2
7.1.3	Historic Sites.....	7-3
8.	LEGAL AND INSTITUTIONAL REQUIREMENTS.....	8-1
8.1	Legal Requirements	8-1
8.2	Institutional Requirements.....	8-1
8.3	Permitting Requirements.....	8-2
8.4	Wastewater Discharge Requirements	8-4
8.5	Unresolved Issues.....	8-5
9.	FINANCIAL CAPABILITY OF SPONSOR	9-1
9.1	Project Schedule	9-1
9.2	Willingness to Pay for Project.....	9-3
9.3	Funding Plan for Construction, Operation and Maintenance	9-3
10.	RESEARCH NEEDS.....	10-1
11.	REFERENCES.....	11-1

TABLES

Table 1-1: Summary of Partnership Agencies
Table 1-2: Helix and Padre Dam Historic and Projected Populations
Table 2-1: Helix Existing and Projected Water Demands
Table 2-2: Padre Dam Existing and Projected Water Demands
Table 2-3: Water Source and Quality
Table 2-4: Ray Stoyer WRF Recycled Water Quality Data
Table 4-1: Ray Stoyer WRF Tertiary Water Uses
Table 5-1: Padre Dam and Helix Potable Water Demand
Table 5-2: Capital Costs
Table 5-3: Annual O&M and Replacement Costs
Table 5-4: Cost of Water Production for the Phase II Project

Table 5-5: Cost of Wastewater Treatment for the Phase II Project
Table 5-6: Future SDCWA Imported Water Cost (2019 Dollars)
Table 5-7: Projected Wastewater Treatment Costs for Metro (2019 Dollars)
Table 5-8: No Project Alternative Water Cost Comparison
Table 5-9: No Project Alternative Wastewater Treatment Cost Comparison
Table 5-10: Alternative 1 Construction Costs
Table 5-11: Alternative 1 Annual O&M and Replacement Costs
Table 5-12: Cost of Water for Alternative 1
Table 5-13: Cost of Wastewater Treatment for Alternative 1
Table 5-14: Alternative 1 – Maximizing NPR Water Cost Comparison
Table 5-15: Alternative 1 – Maximizing NPR Wastewater Services Cost Comparison
Table 6-1: Water Demands and Offset
Table 8-1: Permitting and Approvals
Table 9-1: Phase II Project Schedule

FIGURES

Figure 1-1: Flow Schematic for East County AWP Program
Figure 1-2: Regional Location
Figure 1-3: Project Area
Figure 1-4: Existing Land Use of Western Study Area
Figure 1-5: Existing Land Use of Eastern Study Area
Figure 1-6: Future Land Use of Western Study Area
Figure 1-7: Future Land Use of Eastern Study Area
Figure 1-8: Existing Recycled Water Customers
Figure 5-1: Future SDCWA Imported Water Costs
Figure 5-2: Projected Wastewater Treatment Costs for Metro
Figure 8-1: JPA Organizational Structure

APPENDICES

Appendix A: East County Advanced Water Purification Program Planning Study (2016)
Appendix B: Cost Estimates
Appendix C: Ray Stoyer Water Recycling Facility – Phase I Expansion Project: Initial Study and Mitigated Negative Declaration (July 2015)
Appendix D: Final Program Environmental Impact Report (May 2017)
Appendix E: East County Advanced Water Purification Project – Final Initial Study/Mitigated Negative Declaration (December 2018)

1. INTRODUCTION

The East County Advanced Water Purification (ECAWP) Program (Program) will create a new, local, sustainable, and drought proof drinking water supply using state-of-the-art technology to purify East San Diego County's recycled water. The Program will also diversify East County's water supply and reduce the region's dependence on imported water by supplementing potable supplies through surface water augmentation (SWA). Padre Dam Municipal Water District (Padre Dam) started the Program on a smaller scale (Phase I Project) to produce 3,920 AFY of potable water, offsetting an equal amount of imported water. Over the last few years, the Program has grown into a larger collaborative effort between Padre Dam and three local agencies: (City of El Cajon (El Cajon), County of San Diego (County), and Helix Water District (Helix). The expanded Program (with the Phase II Project) will generate an additional 8,960 AFY of local potable water supply. Padre Dam is proceeding with the planning and implementation of the Phase II Project (or the Title XVI Project), the focus of this Feasibility Study, which would expand the Phase I Project and develop new infrastructure to increase potable reuse. This Feasibility Study has been prepared based on the Reclamation Manual Directives and Standards (WTR 11-01) for the Title XVI Water Reclamation and Reuse Program Feasibility Study Review Process (Reclamation, 2017).

The ECAWP Program includes the production of purified water at an Advanced Water Purification (AWP) facility. The AWP facility will treat tertiary effluent from a Water Recycling Facility and discharge the advanced treated recycled water (purified water) to Lake Jennings. The purified water will then be further treated by Helix at the R.M. Levy Water Treatment Plant (WTP) and distributed to the customers in the Helix, Padre Dam, Otay, and Lakeside Districts' service areas.

Figure 1-1: Flow Schematic for East County AWP Program



1.1 General Background

Padre Dam and Helix are the two Program agencies providing potable water services in East County while Padre Dam, City of El Cajon and the County provide wastewater services. Both Padre Dam and Helix rely heavily on imported water purchased from the San Diego County Water Authority (SDCWA) to meet their current drinking water demands. Padre Dam purchases all its drinking water from the SDCWA while Helix purchases about 85% of its demand from SDCWA, offsetting the remaining 15% with local supplies. The SDCWA purchases imported water from Metropolitan Water District of Southern California (MWD), receives imported water through agreements with other agencies, and supplies desalinated seawater via the Carlsbad Desalination Project. Approximately 90% of SDCWA's supplies are imported from the State Water Project (SWP) and Colorado River. These imported supplies are increasingly unreliable during droughts and have become significantly more expensive; for example, Padre Dam's water supply costs have risen 175% between 2006 and 2018.

Throughout San Diego County, there is an effort to increase supply reliability through the development of local, drought-proof, sustainable supplies, such as SDCWA's use of desalinated water from the Carlsbad Desalination Project, which began deliveries in December 2015. The ECAWP Program, with the development and implementation of potable reuse, will generate a local, drought-proof, sustainable water supply to help meet drinking water demands; it will also help offset imported water demands by increasing the production and use of recycled water for non-potable uses. In turn, the Program will increase supply reliability, reduce risks associated with imported water supply interruptions from natural disasters, and provide a buffer against potential supply impacts associated with drought.

Currently, approximately 14 million gallons per day (MGD) of wastewater is collected in East County. 2 MGD of that flow is recycled at Padre Dam's Ray Stoyer Water Recycling Facility (WRF) while the remaining 12 MGD is conveyed to the City of San Diego's Metropolitan Wastewater System (Metro) to be treated at the Point Loma Wastewater Treatment Plant (WWTP) and then disposed of into the Pacific Ocean. The treatment costs associated with Metro System are projected to increase significantly in the near future due to the planned system upgrades under the City of San Diego's Pure Water Program. This will in turn increase the cost for the East County agencies that discharge wastewater to Metro.

Increasing recycled water use in the East County through implementation of the ECAWP Program is therefore advantageous because it reduces reliance on imported water, mitigates increases in wastewater treatment costs for East County residents and offloads flows to the regional wastewater collection and treatment system and eventually to the ocean.

Given the need for a more reliable and diversified water supply, Padre Dam has been exploring the potential for non-potable and potable reuse for years, including the evaluation and planning of the ECAWP Program. Padre Dam is a leading member of the Program, a partnership of four water and wastewater agencies in East San Diego County; Padre Dam, Helix Water District (Helix), the City of El Cajon (El Cajon), and the County of San Diego (County) each of which are summarized in Table 1-1. The goal of the Program is to explore and implement development of potable reuse and to increase the production and use of recycled water, both potable and non-potable, in East San Diego County. The Program is the result of many years of strategic, long-term planning efforts undertaken by the partnering agencies and has a capacity of producing 30% of the drinking water demand in East County.

Table 1-1: Summary of Partnership Agencies

Agency	Water / Wastewater Services	Areas Served	Water Supply	Wastewater and Recycled Water
Padre Dam	Water, wastewater and recycled water	Santee, El Cajon, Lakeside, Flinn Springs, Harbison Canyon, Blossom Valley, Alpine, Dehesa, and Crest	100% imported treated	40% recycled 60% discharged to Metro
Helix	Water	La Mesa, El Cajon, Lemon Grove, Spring Valley, and various unincorporated areas near El Cajon	85% imported raw 15% local	N/A
County	Wastewater collection	Unincorporated County areas (Alpine, Lakeside, and Winter Gardens)	Provided by Helix	100% discharged to Metro
El Cajon	Wastewater collection	City of El Cajon	Provided by Helix	100% discharged to Metro

Padre Dam's reuse program was expanded beyond its service area in November 2014 when it partnered with Helix, the County, and El Cajon, creating the ECAWP Program. The objectives of the Program are (1) to utilize wastewater generated in East County to create cost-effective, new sources of local, reliable and drought proof water supplies for potable and non-potable uses, and (2) to minimize future financial liabilities related to the Metro wastewater system.

In 2016, the *East County Advanced Water Purification Program Planning Study* (Planning Study) (Kennedy/Jenks, 2016) was prepared to evaluate the potential for expanding Title 22 tertiary recycled water for irrigation and developing potable reuse in East San Diego County. The Planning Study, included as Appendix A, evaluated alternatives for increasing recycled water availability and use within East County. Three primary reuse strategies were evaluated: non-potable reuse (NPR), potable reuse through a groundwater replenishment and reuse project (GRRP), and/or potable reuse through surface water augmentation (SWA). The Planning Study identified the preferred project alternative as potable reuse through SWA at Lake Jennings, leading to the implementation of the Phase I and Phase II Projects.

Padre Dam's Phase I Project is part of the Title XVI-authorized "San Diego Area Water Reclamation Program". The San Diego Area Water Reclamation Program was authorized under 43 USC 390h-10 in 1992 under the Reclamation Wastewater and Groundwater Study and Facilities Act of 1992. The Phase I Project will expand the WRF from the existing 2 MGD to 6 MGD treatment capacity, construct a new solids handling facility along with a new AWP facility to produce 3.5 MGD (3,920 AFY) of product water for SWA at Lake Jennings. The AWP product water pipeline from the AWP facility to Lake Jennings will also be constructed under Phase I. Padre Dam has secured \$16,570,353 million from Reclamation through the Title XVI Water Reuse and Reclamation grant program for Phase I Project implementation.

The Phase II Project will expand the WRF by an additional 9 MGD of treatment capacity, expand the solids handling facility to manage the added solids load, and expand the AWP facility to produce an additional 8 MGD (8,960 AFY) of product water for SWA at Lake Jennings. The addition of the Phase II Project will triple the new local drinking water supply generation in East County. Padre Dam, as the non-Federal project sponsor, is preparing this Title XVI Feasibility Study for the Phase II Project to gain eligibility for funding under Reclamation Projects Authorization and Adjustment

Act of 1992 – Title XVI Reclamation Wastewater and Groundwater Study and Facilities Act, section 1604 (Feasibility Studies) (Pub. L. 102-575; 43 USC 390h et seq.), as amended and the Water Infrastructure Improvements for the Nation Act of 2016 – Title I Water Resources Development, section 4009 (Pub. L. 114-322).

1.2 Project Area Description

The Phase II Project is located in San Diego County, California, as shown in Figure 1-2. The study area includes the service areas of Padre Dam, Helix, County, and El Cajon as shown in Figure 1-3. Padre Dam provides potable water, recycled water, and wastewater treatment services to approximately 100,000 customers in eastern San Diego County (Kennedy/Jenks Consultants, 2016). Padre Dam imports 100% of its potable water supply from SDCWA and is discussed in further detail in Section 2.2 and 2.3. Padre Dam's service area is divided into two separate areas, termed the Eastern Service Area (ESA) and Western Service Area (WSA), which are approximately 60 square miles and 20 square miles, respectively. The ESA includes the unincorporated communities of Alpine, Blossom Valley, Crest, Dehesa, Flinn Springs, and Harbison Canyon. The WSA includes the City of Santee, a portion of the City of El Cajon, and a portion of the unincorporated community of Lakeside. Padre Dam provides drinking water services to both the ESA and the WSA while providing wastewater services to only the WSA. Padre Dam's existing average wastewater flow is approximately 3.5 MGD and the 2050 wastewater flow is projected to be approximately 5.0 MGD. An average of 2.0 MGD wastewater is treated at the Ray Stoyer WRF, owned and operated by Padre Dam, to produce Title 22 tertiary recycled water, and the remaining wastewater flow is conveyed to the Metro System via the Mission Gorge Interceptor. The Metro System conveys wastewater from the City of San Diego and 15 Participating Agencies, including Padre Dam, El Cajon and County, to Point Loma WWTP for treatment prior to final disposal to the Pacific Ocean. Approximately half of the recycled water produced at the Ray Stoyer WRF is sent to the Santee Lakes for recreational use. The Santee Lakes Recreation Preserve is owned and operated by Padre Dam and includes seven recycled water lakes on 190 acres of land. Approximately 1 MGD (1,120 AF) of recycled water is typically provided to Santee Lakes each year with the remaining recycled water provided to non-potable water customers within the WSA area. The Ray Stoyer WRF is permitted for up to 2.0 MGD of live stream discharge from the Santee Lakes to the San Diego River via Sycamore Creek, a tributary to the San Diego River.

Helix provides water service to a highly urbanized area of nearly 50 square miles including the cities of La Mesa, Lemon Grove, El Cajon, and various unincorporated communities of the County including portions of Lakeside and Spring Valley. Helix imports between 85% and 95% of its potable water from SDCWA and is discussed in further detail in Section 2.2 and 2.3. Its remaining water supply, primarily from local runoff, is stored at Lake Cuyamaca, El Capitan Reservoir, and Lake Jennings. The R.M. Levy WTP is used to treat Helix's raw water supply and has been upgraded twice since its original construction in 1965. The R.M. Levy WTP has a permitted capacity of 106 MGD, but typically operates between 27 and 50 MGD with an average flow of 40 MGD. Helix maintains 15 interconnections with neighboring water agencies (eight with Otay Water District, three with Padre Dam, two with Lakeside Water District, and two with the City of San Diego) that are used for emergency situations and planned maintenance operations. Helix owns, operates, and maintains Lake Jennings which has a storage capacity of 9,790 AF and is used primarily to store raw imported water from SDCWA (approximately 95% of the volume) and local runoff.

El Cajon provides wastewater service for residents of the city. In addition, wastewater flow from the community of Winter Gardens, an unincorporated area of the County, drains to El Cajon's sewer system. The combined area of the El Cajon and Winter Gardens' wastewater systems covers approximately 19 square miles. El Cajon's sewer system is operated entirely by gravity, with the majority of the flow conveyed to the Metro System. El Cajon's existing average flow is approximately 6.5 MGD and is projected to be 7.8 MGD in 2050.

There are three unincorporated areas of the County included in the study area: Alpine, Lakeside, and Winter Gardens. Alpine and Lakeside are located east of Padre Dam's service area and Winter Gardens is located east of El Cajon. The service areas for Alpine and Winter Gardens are 3.3 and 1.6 square miles, respectively. Lakeside's service area is 20 square miles. All wastewater flow from Alpine and Lakeside discharges to the Metro System at the Mission Gorge

Interceptor via the Lakeside Interceptor. Flow from Winter Gardens is discharged to El Cajon's wastewater system, where it is subsequently conveyed to the Metro System. The total combined existing average wastewater flow for the three County areas is approximately 3.9 MGD and is projected to be 5.6 MGD in 2050.

Figure 1-2: Regional Location

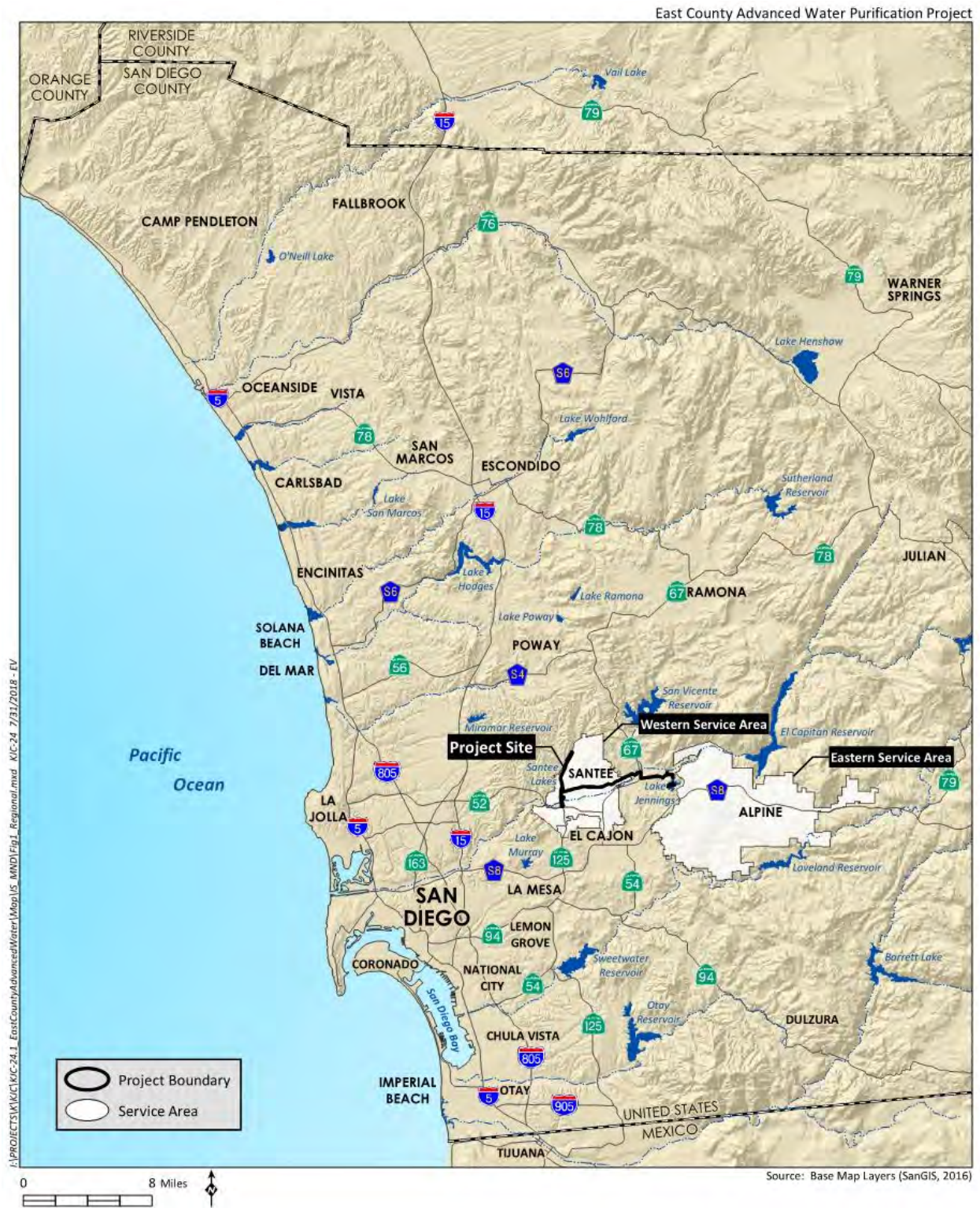
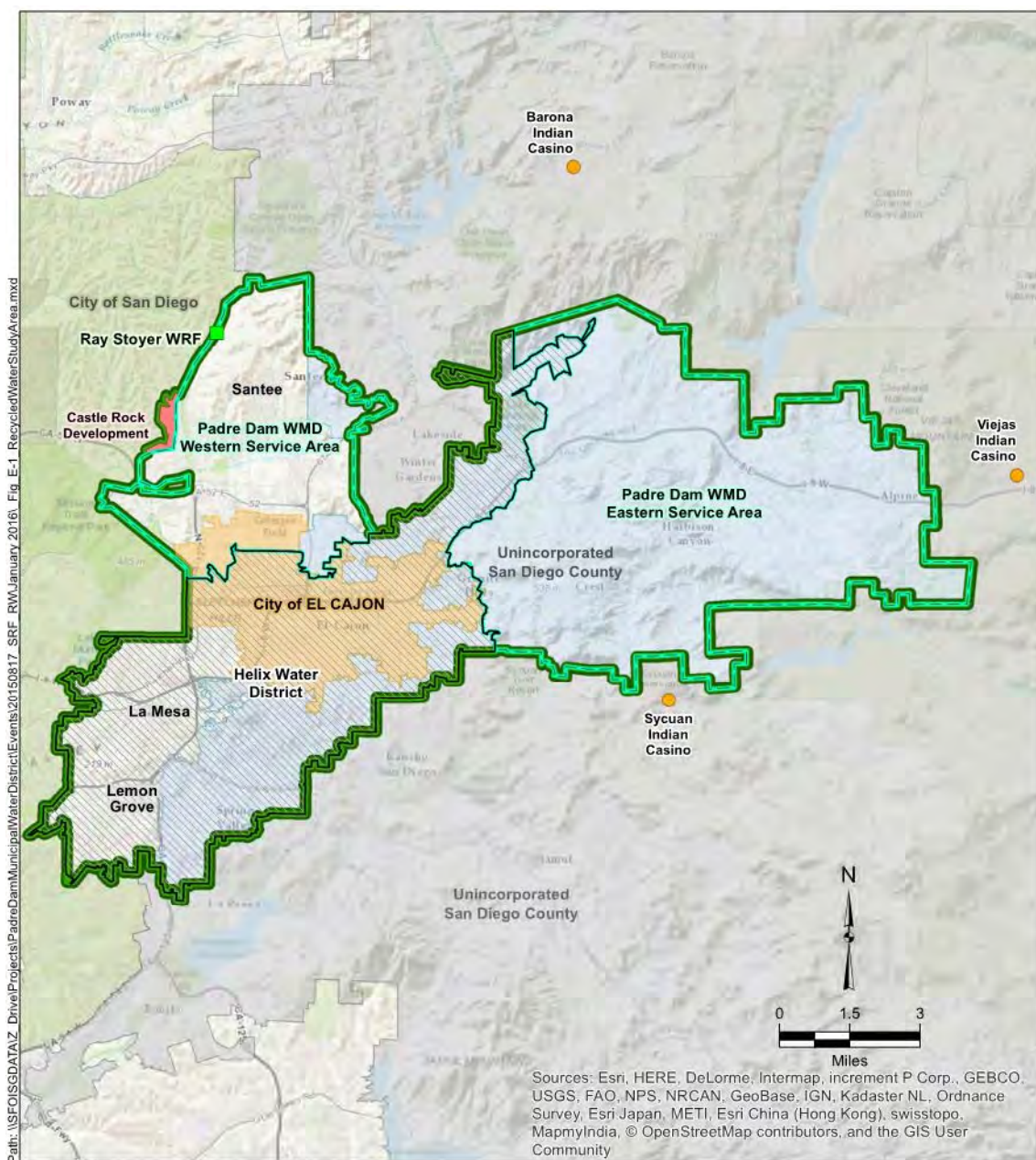




Figure 1-3: Project Area



- Legend**
-  Study Area
 -  Padre Dam WMD
 -  Ray Stoyer WRF
 -  Helix Water District
 -  City of El Cajon
 -  Unincorporated San Diego County
 -  Indian Reservations
 -  Castle Rock Development

Kennedy/Jenks Consultants
 Padre Dam Municipal Water District
 East County Advanced Water Purification Program
**East County Advanced Water Purification Program
 Recycled Water Study Area**

K/J 1444104.00
 January 2016

Source: Kennedy/Jenks Consultants, 2016

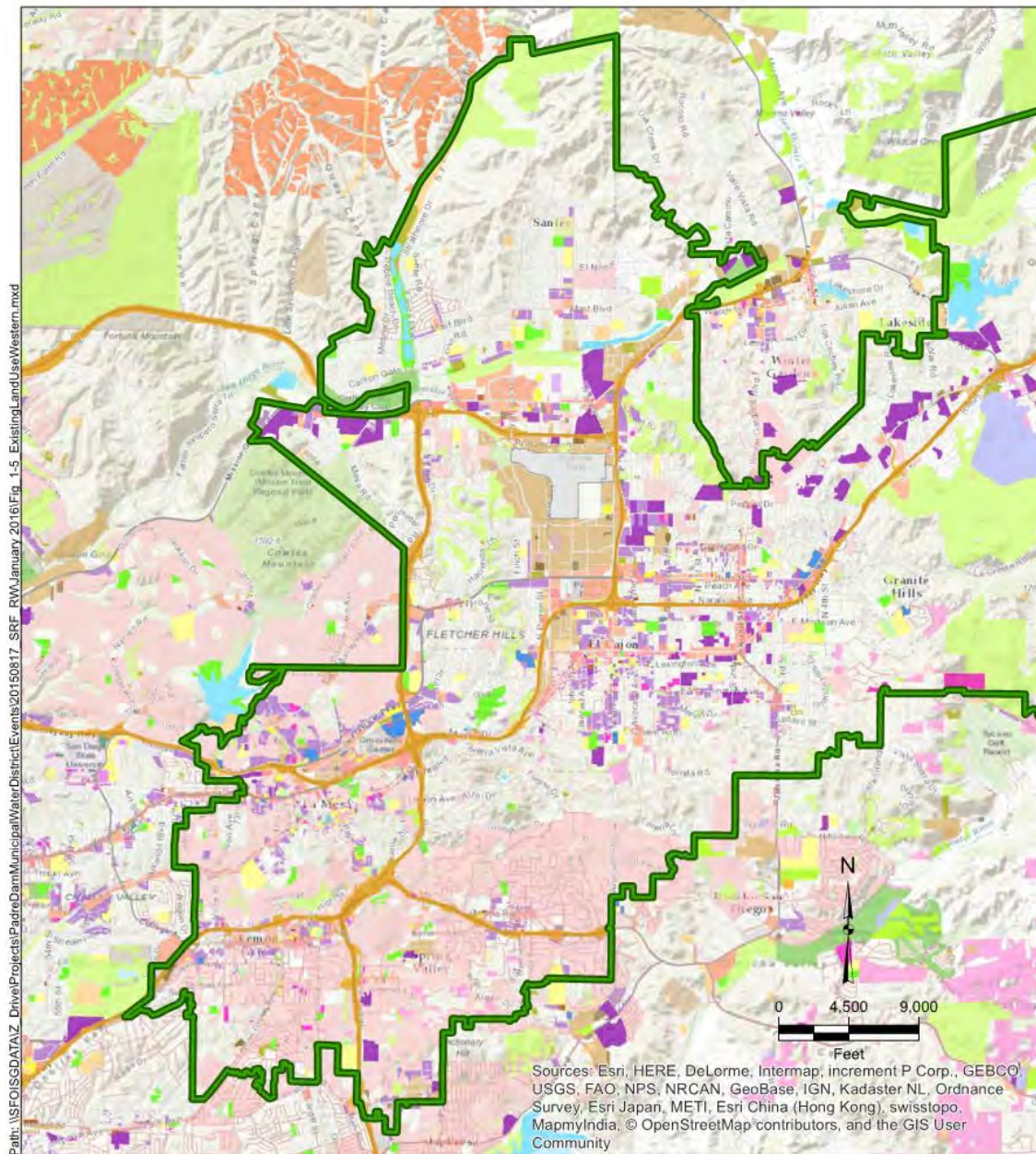
1.2.1 Land Use

The study area for the Program is within the water service boundaries of Helix and Padre Dam which also overlies the wastewater service area of the City of El Cajon and portions of unincorporated San Diego County. Current and projected land use for Helix is provided by the San Diego Association of Governments (SANDAG). Approximately 89% of land within Helix's service area is currently dedicated to intensive urban uses including residential, transportation and utilities, commercial and industrial, and institutional; this is projected to increase to approximately 92% in 2050. The growth in urban land use is projected to occur predominately in residential land use (approximately 1,200 acres) of which approximately 990 acres will be from the development of vacant and agricultural lands.

Padre Dam's land use is based on the general plans from the County of San Diego, City of Santee, and the City of El Cajon that were updated in 2011, 2012, and 2013, respectively. Due to the 2008 economic downturn, some known proposed developments have not been active but are now starting to gain traction. A total of 19 major developments have been identified; 11 are likely to be constructed by 2020 and the remaining eight are likely to be constructed between 2020 and 2040. The known development is projected to result in approximately 2,900 new residential units and 920 acres by 2020, and a total of approximately 5,300 new residential units and 1,600 acres by 2040.

The existing land use for the western and eastern portions of the study area is provided on Figure 1-4 and Figure 1-5, respectively. The future land use (2040) for the western and eastern portions of the study area is provided on Figure 1-6 and Figure 1-7, respectively (Kennedy/Jenks Consultants, 2016).

Figure 1-4: Existing Land Use of Western Study Area



Existing Land Use

Commercial	Golf Course	Monastery	Road/Railroad Right of Way
Cemetery	Public Services	Multi-Family	Religious Facility
Communications and Utilities	Hospital	Office	Resort
Shopping Center	Hotel/Motel (Low-Rise)	Orchard or Vineyard	Service Station
Dormitory	Jail/Prison	Other Group Quarters Facility	Single Family
School	Junkyard/Dump/Landfill	Recreation	Spaced Rural Residential
Industrial	Lake/Reservoir/Large Pond	Other Transportation	Undevelopable Natural Area
Agriculture	Open Space	Park - Active	Warehousing
Fire/Police Station	Military Use	Parking Lot	Water
Freeway	Mixed Use	Public Storage	
General Aviation	Mobile Home Park	Rail Station/Transit Center	

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Padre Dam Municipal Water District
East County Advanced Water Purification Program

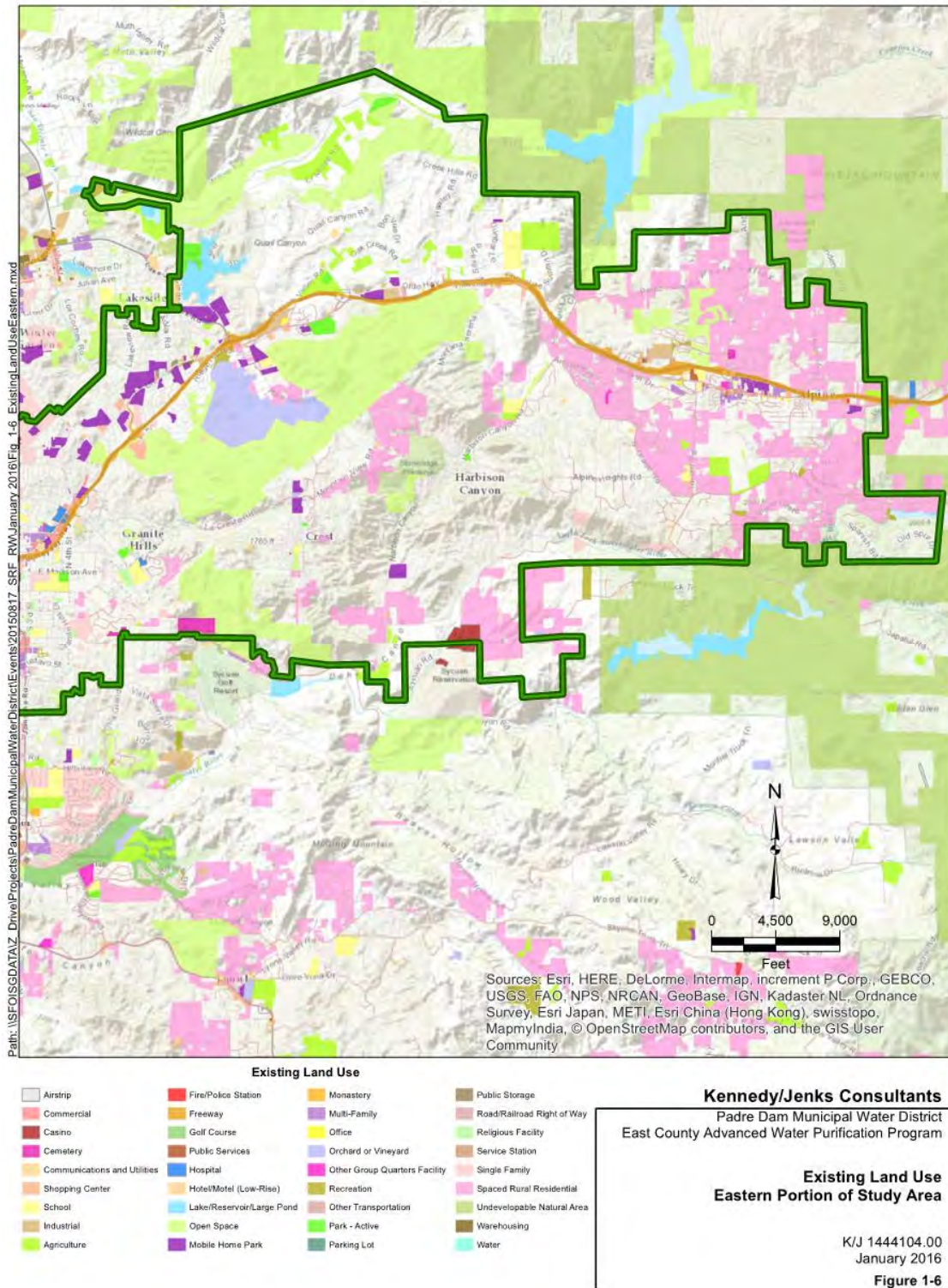
Existing Land Use
Western Portion of Study Area

K/J 1444104.00
January 2016

Figure 1-5

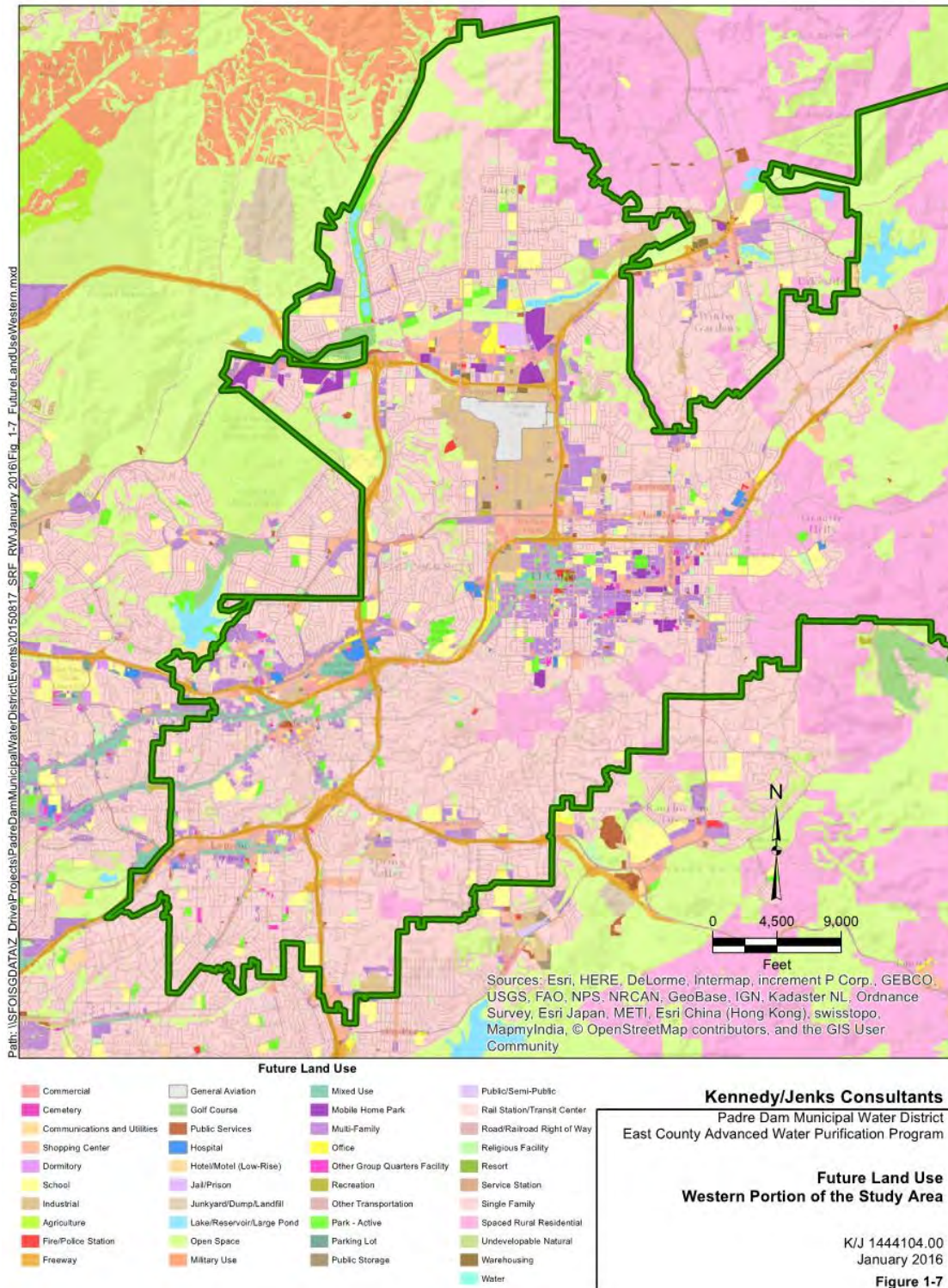
Source: Kennedy/Jenks Consultants, 2016

Figure 1-5: Existing Land Use of Eastern Study Area



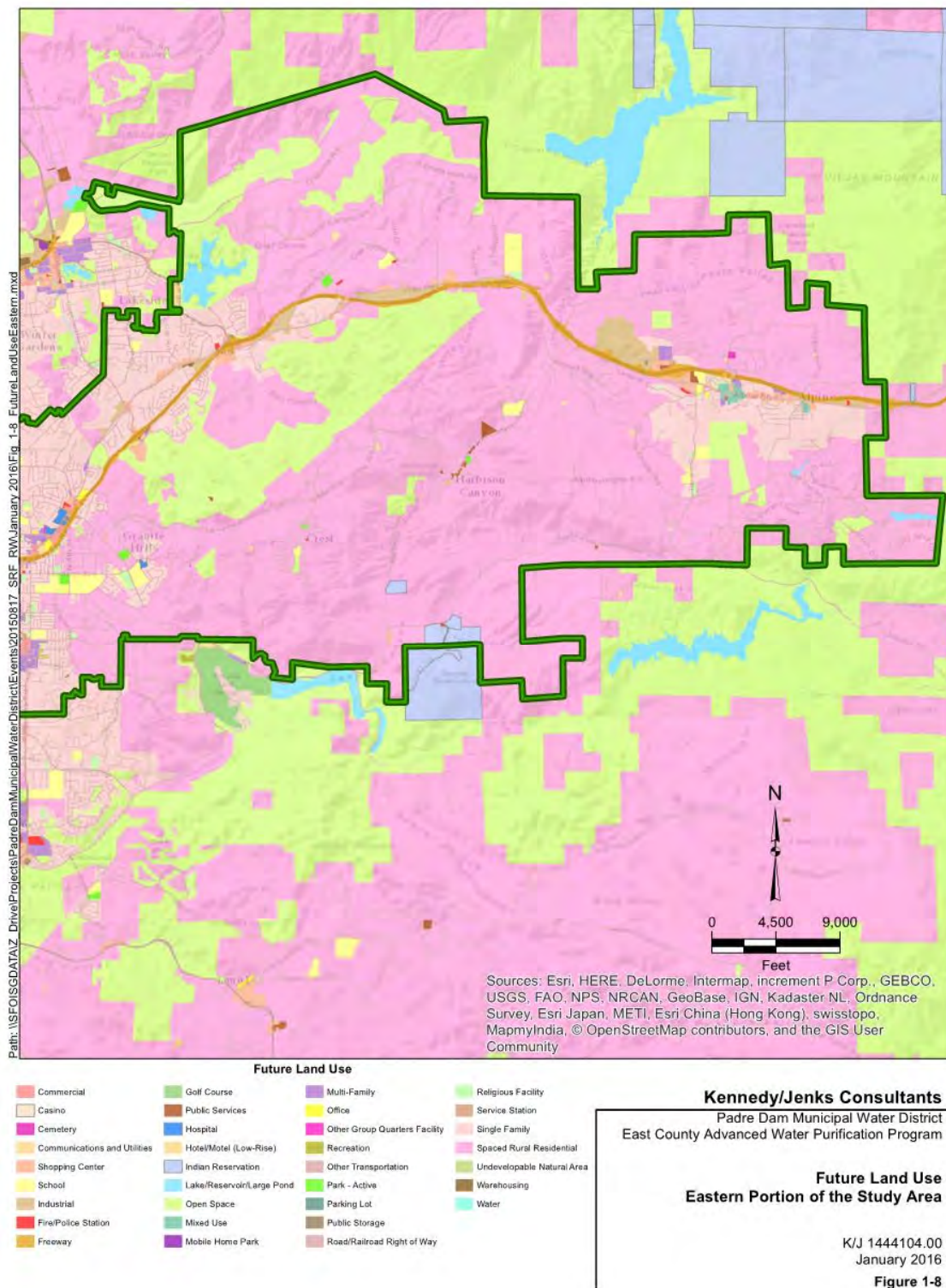
Source: Kennedy/Jenks Consultants, 2016

Figure 1-6: Future Land Use of Western Study Area (2040)



Source: Kennedy/Jenks Consultants, 2016

Figure 1-7: Future Land Use of Eastern Study Area (2040)



Source: Kennedy/Jenks Consultants, 2016

1.2.2 Population Projections

The population growth rate within Helix's service area is projected to average 1.14% per year from 2015 to 2040. This average growth rate results in overall growth of 29% between the years 2015 and 2040 and a total population increase of approximately 62,300 people. The projected population for Helix's service area is provided in Table 1-2.

The population growth rate within Padre Dam's service area is projected to average 0.80% per year from 2015 to the year 2040. This average growth rate results in an overall growth rate of about 20% between the years 2015 and 2040 and a total population increase of approximately 20,200 people. The projected population for Padre Dam's service area is provided in Table 1-2 (Kennedy/Jenks, 2016).

Table 1-2: Helix and Padre Dam Historic and Projected Populations

Year	Helix Population ^a	Padre Dam Population ^b	Total Population
2010	267,922	91,670 ^c	359,592
2015	269,915	100,919	370,834
2020	284,994	105,224	390,218
2025	297,749	111,363	409,112
2030	313,948	114,828	428,776
2035	330,198	119,985	450,183
2040	347,289 ^d	121,163	468,452

Notes:

a: Helix Water District 2010 Urban Water Management Plan Update, July 2011 (Helix, 2011)

b: Padre Dam 2015 Comprehensive Facilities Master Plan Final Draft Report, August 2015 (Carollo, 2015)

c: Padre Dam 2010 Urban Water Management Plan, 2010 (Padre Dam, 2010)

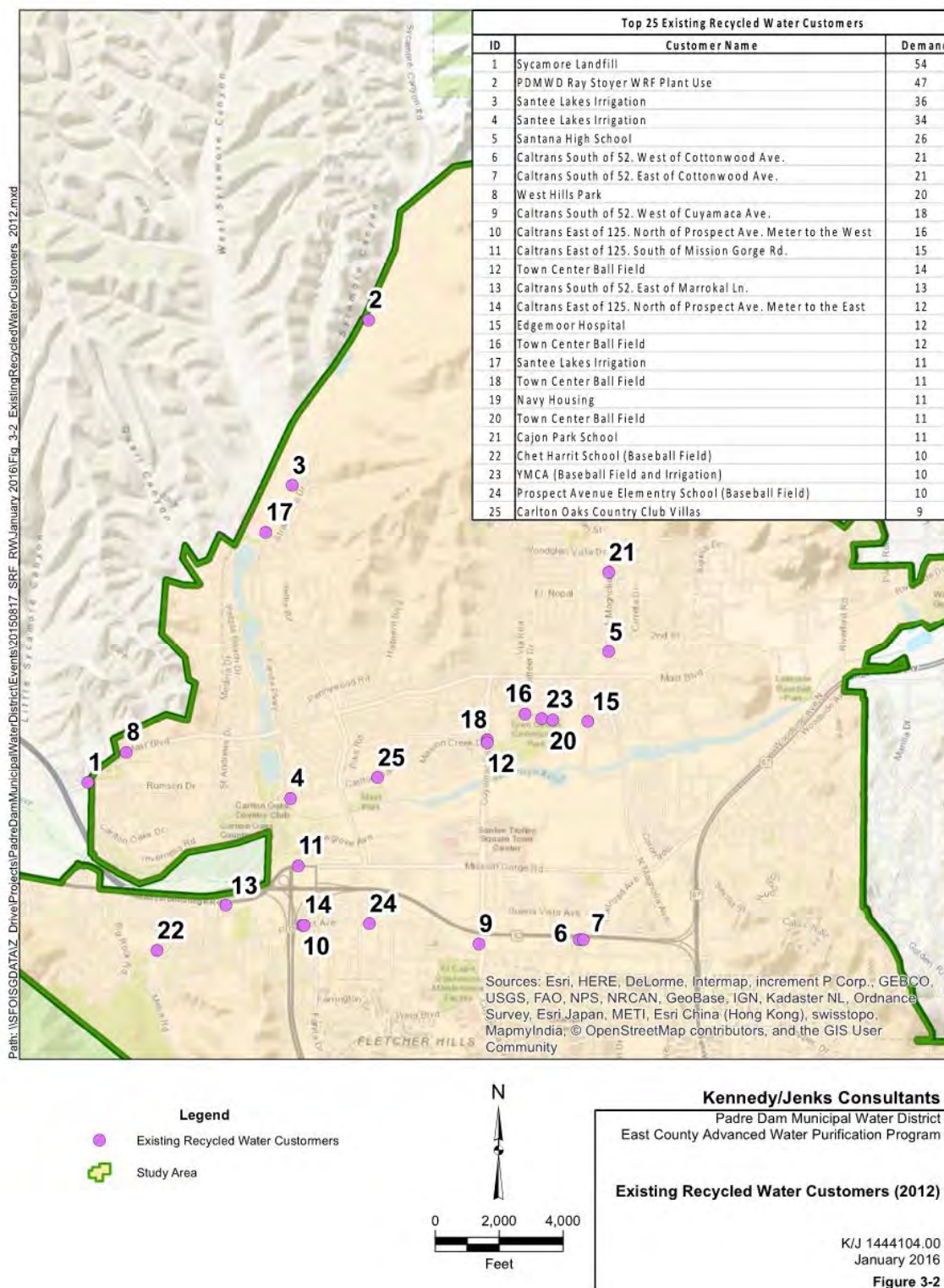
d: Extrapolated population based on population growth rate for Helix from 2030 to 2040

1.3 Existing Recycled Water Infrastructure

1.3.1 Existing

Helix, County, and El Cajon do not produce and deliver recycled water. Recycled water was first developed and used in Padre Dam's service area in the 1960's. Recycled water that is produced at Padre Dam's Ray Stoyer WRF is sent to either the Santee Lakes Recreation Preserve or to recycled water customers within the WSA for non-potable reuse. The Ray Stoyer WRF is located in the WSA and is shown in Figure 1-3. The existing WRF treatment process includes primary sedimentation, biological nutrient removal, secondary clarification, rapid mix, flocculation, filtration, and chlorination. It is permitted for up to 2.0 MGD of live stream discharge from the Santee Lakes into Sycamore Creek. Santee Lakes is used for recreational activities including camping, picnicking, boating, fishing, bird watching, and biking. Swimming is not allowed in Santee Lakes. Approximately 0.8 MGD is used by recycled customers for non-potable reuse. The location and demand in AFY of the existing recycled water customers is shown in Figure 1-8.

Figure 1-8: Existing Recycled Water Customers



Source: Kennedy/Jenks Consultants, 2016

1.3.2 Phase I Infrastructure

The Phase I Project will expand the existing Ray Stoyer WRF from 2.0 MGD to 6.0 MGD tertiary capacity and will add a new 3.5 MGD AWP facility. It will also construct an AWP facility pump station and conveyance facilities to convey the advanced treated water to Lake Jennings, which will be used as an environmental buffer for SWA. Associated pipelines, pump stations, and other facilities will be constructed as required to achieve increased recycled water production, advanced water purification, and conveyance of the advanced treated water. Finally, the Phase I Project will construct a biosolids digestion facility to process sludge produced by the Ray Stoyer WRF. While the Phase I Project is not yet implemented, for the purposes of this Feasibility Study, it is considered “existing” since the Project has already moved into the procurement stage. The Phase I Project facilities include:

- A 6.0 MGD Ray Stoyer WRF to produce 5.7 MGD Title 22 tertiary water for recycled water use and advanced treatment. This upgrade will be accommodated within the existing footprint of the WRF site and will require construction of additional treatment processes including primary clarification, equalization tank, bioreactors, secondary clarifiers, and tertiary filters.
- An expanded influent pump station (IPS) to accommodate the additional flows to the Ray Stoyer WRF.
- An AWP facility with a production capacity of 3.5 MGD for potable reuse. The AWP facility will provide additional treatment to the recycled water from the Ray Stoyer WRF using microfiltration, reverse osmosis, ultraviolet disinfection / advanced oxidation process (e.g. ultraviolet treatment with free chlorine), free chlorine disinfection, and post stabilization. The resulting advanced treated water will be used for SWA at Lake Jennings. The brine will be conveyed to the Metro System.
- A 10-mile long, 24-inch diameter pipeline and 600 hp capacity pump station located at the AWP facility to convey purified water from the AWP facility to Lake Jennings. The product water will mix with the native water sources in the lake before being pulled out for treatment at the existing R.M. Levy WTP for potable consumption.
- A new biosolids digestion facility located at the Ray Stoyer WRF for the waste sludge from the expanded Ray Stoyer WRF. The biosolids digestion facility will be designed and constructed to allow for potential future co-digestion of the thickened WRF sludge with organic waste from the landfill or haulers.

2. STATEMENT OF PROBLEM AND NEEDS

2.1 Project Need

The East County AWP Program will provide solutions to the current water- and wastewater-related reliability, affordability and sustainability issues within the study area. As drinking water suppliers, Padre Dam and Helix rely heavily on unreliable and expensive imported water supplies. The Program's sewer agencies (Padre Dam, County, and El Cajon) send wastewater to the regional Metro System for treatment and disposal; this service is expected to see significant cost increases due to implementation of the City of San Diego's Pure Water Program.

The majority of Padre Dam and Helix's drinking water supply is purchased from the SDCWA. The SDCWA purchases water from MWD, receives imported water through agreements with other agencies, and supplies desalinated seawater. Approximately 90% of the SDCWA's supplies are imported from the SWP and Colorado River. These supplies are increasingly unreliable during drought and have become significantly more expensive; for example, Padre Dam's water costs have risen 175% between 2006 and 2018. Throughout San Diego County, there is an effort to increase supply reliability through development of local, drought-proof, sustainable supplies. For the East County agencies, this means expanding recycled water production for both non-potable and potable reuse. In addition to being a local, drought-proof, and sustainable supply, recycled water provides other regional benefits such as increasing supply reliability, reducing risks associated with imported water supply interruptions from natural disasters, and providing a buffer against potential supply impacts associated with drought.

In addition, wastewater disposal costs to the Metro System are anticipated to increase significantly with the implementation of the City of San Diego's Pure Water Program in the near future. Padre Dam, El Cajon and the County wastewater agencies currently generate approximately 14 MGD of wastewater with a projected flow of 18.4 MGD in 2050. El Cajon and the County are completely dependent on the Metro System for conveyance and treatment of their wastewater at the Point Loma WWTP. Padre Dam treats 2.0 MGD of wastewater generated within its service area and conveys the rest to the Metro System. The wastewater flow from Padre Dam, El Cajon, and the County converge on the western end of Santee prior to being conveyed to the Metro System via the Mission Gorge Pump Station and Interceptor. With the ECAWP Program, a majority of these flows can be intercepted at Mission Gorge and conveyed to the Ray Stoyer WRF instead of the Metro System. The Phase II Project would reduce dependence on the Metro System for wastewater treatment and disposal and reduce discharges of a potentially valuable resource to the Pacific Ocean. Furthermore, the Program would provide a regional benefit by assisting the City of San Diego divert flows from the Point Loma WWTP consistent with its secondary equivalency strategy for the Point Loma WWTP's NPDES permit renewal (Order No. R9-2017-0007).

2.2 Water Supplies

2.2.1 Helix

Helix's raw water supply includes a combination of imported water and local water sources. Imported water is purchased from SDCWA and is a blend of Colorado River water and northern California water delivered by the SWP. Imported water is conveyed to the R. M. Levy WTP through Helix's raw water transmission system accounts for approximately 85% to 95% of its total water supply. The remaining supply for Helix is from primarily local runoff stored at Lake Cuyamaca, El Capitan Reservoir, and Lake Jennings. In addition, local groundwater extracted at Helix's Well 101 has historically produced about 150 AFY of water supply and has never produced more than 1% of Helix's total water supply (Kennedy/Jenks Consultants, 2016). Helix can also receive treated water from the SDCWA via Connections No 5, 6 and 7.

2.2.2 Padre Dam

Padre Dam imports 100% of its potable water supply from the SDCWA through two connections, Connection No. 4 and Connection No. 6. Padre Dam's Connection No. 4 is located on Padre Dam's portion of the El Capitan pipeline to the west of the WSA. Water that is imported through Connection No. 4 is supplied from Skinner WTP and SDCWA's Second Aqueduct. Connection No. 6 is located between the WSA and ESA just to the west of Lake Jennings. Water that is imported through Connection No. 6 is supplied from Helix's R.M. Levy WTP. The WSA and ESA are hydraulically connected which allows for potable water to be delivered to both service areas via either Connection No. 4 or Connection No. 6. Historically, Padre Dam has imported the majority of its potable water supply through Connection No. 4. However, Padre Dam has recently increased the percentage of potable water it imports through Connection No. 6 due to the East County Regional Treated Water Improvement Program, which enables multiple water agencies in the East County to use more capacity from the upgraded R.M. Levy WTP and to ease demands on SDCWA's Second Aqueduct. Connection No. 4 has the ability to supply up to 19 MGD and Connection No. 6 can supply up to 18 MGD. As part of the East County Regional Treated Water Improvement Program, the Eastern Service Secondary Connection Project proposes to add a new connection (Connection No. 7) to the potable water supply from the SDCWA. Connection No. 7 is currently in commissioning and will provide a second connection point to improve supply reliability within the ESA. When Connection No. 7 is in use, Connection No. 6 will be de-rated to a capacity of 12 MGD.

Padre Dam currently provides recycled water service to customers within the WSA and the Santee Lakes Recreation Preserve. Padre Dam's customer base uses recycled water mostly for irrigation except for Sycamore Landfill which uses recycled water for dust control and rock crushing operations. Padre Dam serves approximately 0.8 MGD (896 AFY) of recycled water to 225 customers and 1 MGD (1,120 AFY) of recycled water to the Santee Lakes Recreation Preserve. More detailed information on each recycled water user and quantities are provided in Section 3 of the Planning Report (Kennedy/Jenks Consultants, 2016).

There are no future water projects currently planned or under implementation, besides the Phase I Project, for either Helix or Padre Dam (Helix, 2016; Brown and Caldwell, 2016). The Phase I Project will supply 3,920 AFY of a new local potable water source to the region, as previously mentioned in Section 1.3.2.

2.3 Water Demands

2.3.1 Helix

Helix provides water service to an area that includes the cities of La Mesa, Lemon Grove, El Cajon, and various unincorporated communities of the County including portions of Spring Valley and Lakeside. Helix's service area, which is highly urbanized and almost completely developed, is projected to experience minimal change in the future. There are also no significant changes in current land use projected within the service area except for potential changes in residential use from infill development of the small amount of remaining developable land and changes from single-family to multi-family residential land use.

Historical data shows that the per capita water consumption within the Helix service area has steadily decreased from approximately 200 gal/capita-day (GPCD) in 1950 to 110 GPCD in 2010. Helix used land use data from SANDAG's Series 13 Regional Growth Forecast, which includes SANDAG's projection of land use, population, and economic growth to project future demand through the year 2040 (Kennedy/Jenks Consultants, 2016). Using this regional growth forecast and water duty factors for the designated land use types, total annual demands were projected through 2040 as summarized in Table 2-1. Helix's current water supplies are inadequate to meet projected demands and the district will need to purchase increasing quantities of imported water from SDCWA.

Table 2-1: Helix Existing and Projected Water Demands

Year	Annual Demand (AFY)
2015	31,139
2020	31,274
2025	32,454
2030	32,546
2035	32,938
2040	33,316

Source: Helix Water District 2015 Urban Water Management Plan (Helix, 2016)

2.3.2 Padre Dam

Water demands for Padre Dam were projected in its 2015 Urban Water Management Plan (Brown and Caldwell, 2016) to 2040 and are shown in Table 2-2 below. Padre Dam's customer base is mostly residential, with some commercial, institutional and agricultural uses. Residential customers make up approximately 60% of the district's potable water demand (Brown and Caldwell, 2016). As previously stated in Section 1.2.2, the population is expected to increase by approximately 16,000 or 15% in the next 20 years and will be the most significant factor contributing to the increase in demand. Padre Dam's existing water supplies are inadequate to meet projected demands and the district will need to purchase increasing quantities of imported water from SDCWA.

Table 2-2: Padre Dam Existing and Projected Water Demands

Year	Annual Demand (AFY)
2015	12,191
2020	12,535
2025	16,049
2030	16,230
2035	16,461
2040	16,816

Source: Padre Dam 2015 Urban Water Management Plan (Brown and Caldwell, 2016)

2.4 Water Quality

The water quality of Padre Dam's and Helix's primary water supplies including imported water and recycled water is discussed in the following sections. While Helix relies on groundwater for some water supply, because it only accounts for less than 1%, groundwater quality is not discussed below.

2.4.1 Imported Water Quality

Lake Jennings is used by Helix to store its raw imported water supplies prior to treatment and distribution to its customers. The water quality of Lake Jennings, which primarily stores imported water, is generally considered to be excellent. The ratio of the two imported water sources (Colorado River water and northern California water) along with their water quality varies from season to season and year to year. Imported water from northern California has a lower total dissolved solids (TDS) content than Colorado River water, but it has higher organic carbon and bromide levels

due to its conveyance through the Sacramento/San Joaquin Delta. Most of the winter runoff from the Cuyamaca and El Capitan watersheds (except for an emergency supply) is used in the spring and summer months. Limiting carryover to the following water year minimizes evaporation and increases available storage in the Lake Cuyamaca and El Capitan reservoirs for the following winter. Helix meets its emergency storage needs through the combined volume of water held in Lake Jennings and El Capitan Reservoir.

The R.M. Levy WTP treats a blend of the imported water and local water for Helix, Padre Dam, Otay and Lakeside Water Districts. The treated water from the R.M. Levy WTP meets all primary drinking water standards using conventional filtration with intermediate ozonation and post-chloramination.

The treated imported water that Padre Dam receives from the SDCWA is from northern California and the Colorado River which is imported by MWD, treated at MWD's Robert A. Skinner WTP, and conveyed to the SDCWA. Water that is independently imported from the Colorado River by the SDCWA is treated at the SDCWA's Twin Oaks Water Treatment Plant. MWD, SDCWA, Helix, and Padre Dam coordinate annually to assess water quality sample results and produce the Consumer Confidence Report that is mandated by the state. Table 2-3 provides a summary of water quality issues affecting the imported water supply (Kennedy/Jenks Consultants, 2016).

Table 2-3: Water Source and Quality

Water Source	Water Constituent	Water Quality
State Water Project	Total Organic Carbon and Bromide	Naturally occurring but elevated due to agricultural drainage and seawater intrusion.
State Water Project	Nutrients	Higher levels than the Colorado River.
State Water Project	TDS	Significantly lower average levels than the Colorado River, but can vary widely within short periods of time.
State Water Project	Arsenic	Occurs naturally. Historic levels are below the maximum contaminant level (MCL). Groundwater storage programs may increase risk of arsenic contamination.
Colorado River	TDS	High levels occur naturally. Agricultural development and upstream reuse elevate levels further.
Colorado River	Perchlorate	Has been detected at low levels below the state MCL.
Colorado River	Uranium	Contaminated groundwater is slowly seeping into the river. Current levels are below the MCL. Potential for catastrophic contamination due to flood or other natural disaster.
Colorado River	Nutrients	Historically low levels.
Colorado River	Arsenic	Occurs naturally. Historically levels have been below the MCL.

Source: East County Advanced Water Purification Program Planning Study (Kennedy/Jenks Consultants, 2016)

2.4.2 Recycled Water Quality

Table 2-4 provides recycled water quality data for Ray Stoyer WRF based on monthly data from 2013 and 2014 (Kennedy/Jenks Consultants, 2016). There have been no major changes in the wastewater treatment process and recycled water quality in recent years. Recycled water produced at the Ray Stoyer WRF is treated to meet the Title 22 disinfected tertiary 2.2 water quality requirements for unrestricted use, which include meeting turbidity requirements of less than 2 NTU on average and a 7-day median total coliform requirement of 2.2 MPN/100 mL.

Table 2-4: Ray Stoyer WRF Recycled Water Quality Data

Effluent Water Quality Parameter	Value (mg/L)
Biochemical Oxygen Demand (BOD ₅)	2.3
Chemical Oxygen Demand (COD)	18.9
Ammonia (NH ₃)	0.1
Nitrate (NO ₃)	5.5
Total Nitrogen	6.2
Total Phosphorus	0.1
Total Suspended Solids (TSS)	1.2
Volatile Suspended Solids (VSS)	1.0

Source: East County Advanced Water Purification Program Planning Study (Kennedy/Jenks Consultants, 2016)

3. WATER RECLAMATION AND REUSE OPPORTUNITIES

A thorough evaluation of water reclamation and reuse opportunities was conducted in Section 3, Recycled Water Market, of the Planning Study (Kennedy/Jenks Consultants, 2016). The following sections provide a high-level overview of the analysis; for further detail, refer to Section 3 of the Planning Study (Appendix A).

3.1 Potential Reclaimed Water Uses

Section 3 of the Planning Study analyzed three different potential uses of recycled water:

1. Expanded non-potable reuse (NPR) using tertiary treated recycled water for irrigation.
2. Groundwater recharge and recovery for potable reuse (GRRP).
3. Surface water augmentation (SWA) for potable reuse.

The feasibility of each potential water use was evaluated with consideration to the problems and needs discussed in Section 2 and in further detail in Section 3.2 of this Feasibility Study.

3.2 Market Assessment

The market available to utilize reclaimed water considered non-potable reuse with tertiary treated water and potable reuse via groundwater recharge and SWA (Kennedy/Jenks Consultants, 2016). The market assessment procedures used for analysis are based on the following:

1. Reviewing historical recycled water demands for Padre Dam.
2. Reviewing present and future land use information for the study area.
3. Conversing with Padre Dam staff to discuss potential future recycled water irrigation customers.
4. Reviewing the existing Padre Dam 2015 Comprehensive Facilities Master Plan (CFMP) Final Draft Report.
5. Reviewing documents regarding Santee Basin groundwater modeling for implementation of GRRP.
6. Reviewing documents regarding Lake Jennings and SWA.

3.2.1 Non-Potable Reuse Market Assessment

Padre Dam's WSA, including existing and potential users, served as the study area for NPR. Existing NPR demand consists of approximately 1.8 MGD, with 1.0 MGD going to Santee Lakes and 0.8 MGD going to other recycled water customers. Existing recycled water customers are entirely located in Padre Dam's WSA. Padre Dam's customer base uses recycled water predominantly for irrigation, except for Sycamore Landfill, which uses recycled water for dust control and rock crushing operations.

Future recycled water demand projections were determined through a combination of sources including land use information, historical potable water billing records, discussions with Padre Dam staff, aerial photographs, locations of parks and schools, and previous studies to project future recycled water demand in Padre's Dam WSA (Carollo, 2015). A total of 49 potential future recycled water customers were identified in the Planning Study with a potential demand of approximately 2,465 AFY or 2.2 MGD (Kennedy/Jenks Consultants, 2016). However, only 1.7 MGD of future NPR is considered to be economically feasible as compared to the cost of imported water. For additional information regarding

the NPR evaluation, see Section 3.2, Non-Potable Reuse Market Assessment, in the Planning Study (Kennedy/Jenks Consultants, 2016) (Appendix A).

3.2.2 Groundwater Recharge and Recovery Market Assessment

Groundwater recharge and recovery is one option being considered as a potential use for recycled water. The GRRP study area is located in the portion of the Santee Aquifer that is bordered on the west by Magnolia Avenue and extending approximately 3 miles to the east to the intersection of Highway 67 and Willow Road. Based on hydrogeologic investigation and modeling, implementation of GRRP in the Santee Groundwater Basin for potable reuse appeared to be feasible up to an average annual injection/extraction rate of 2.2 MGD (DBS&A, 2015). 14 injection wells and 5 extraction wells would be required for the 2.2 MGD annual average capacity GRRP in the Santee Basin. In addition, a disinfection facility and associated piping would be required to treat groundwater from the extraction wells and convey it to Padre Dam's potable water distribution system. The Santee Basin would not provide the necessary six-month retention and travel time, so additional treatment using free chlorine would be required to meet log removal requirements for GRRP. More detailed information regarding the potential for GRRP can be found in Section 3.3, Groundwater Recharge and Recovery Market Assessment, in the Planning Study (Kennedy/Jenks Consultants, 2016) (Appendix A).

3.2.3 Surface Water Augmentation Market Assessment

SWA is another option being considered for potential water reuse in East County. Opportunities for SWA in or near the study area include Lake Jennings, San Vicente Reservoir, and El Capitan Reservoir. Lake Jennings is a 9,790 AF reservoir owned and operated by Helix. San Vicente Reservoir had an original storage volume of 90,000 AF but a recent dam raise project increased the storage capacity by an additional 152,000 AF. San Vicente Reservoir is located north of Lake Jennings. San Vicente Reservoir is co-owned by the SDCWA and the City of San Diego and operated by the City of San Diego. El Capitan Reservoir is located east of Lake Jennings and has a volume of 112,800 AF. El Capitan Reservoir, while the second largest of the three reservoirs in or around the study area, is considerably further from the Ray Stoyer WRF than Lake Jennings and is owned and operated by the City of San Diego. Of these three reservoir alternatives, Lake Jennings was selected for further consideration because of its close proximity to Ray Stoyer WRF and it is owned and operated by Helix. Purified water would be piped to Lake Jennings from the AWP facility at the Ray Stoyer WRF, blended with raw water in the reservoir, and then conveyed to Helix's R.M. Levy WTP for treatment prior to entering the potable water supply system. Padre Dam has been conducting detailed hydrodynamic modeling of Lake Jennings since 2015 to prove feasibility of using Lake Jennings for reservoir augmentation per the SWA regulations and the augmentation capacity. The Division of Drinking Water (DDW) issued a Conceptual Approval letter (dated March 24, 2017) for use of Lake Jennings for SWA. The hydrodynamic modeling efforts have been carried out under the guidance of an Independent Advisory Panel. The recent model results show that Lake Jennings could accept up to 12.5 MGD of purified water for SWA. More details regarding SWA can be found in in Section 3.4, Surface Water Augmentation Market Assessment, of the Planning Study (Kennedy/Jenks Consultants, 2016) (Appendix A).

3.3 Water Reuse Considerations

Water reuse opportunities of NPR, GRRP and SWA each have benefits, but also limitations that may prevent implementation of a water reuse project. Any potential limitations were considered and weighed against the benefits each alternative would provide.

NPR has limited demand in the area and has high costs associated with implementation. As discussed previously in Section 3.2.1, existing NPR demand consists of a total of approximately 1.8 MGD, with 1.0 MGD going to Santee Lakes and 0.8 MGD going to other recycled water customers. Future demand could add as much as 2.2 MGD of recycled water, but would require additional infrastructure and in some cases would not be cost-effective compared to the cost of imported water (Kennedy/Jenks Consultants, 2016). The eight recycled water system expansion segments that were

considered cost effective would add 1.7 MGD of NPR recycled water. These segments would rely on both developer and water agency funding. Feasibility of each segment is discussed in detail in Section 3.2.2 of the Planning Study (Kennedy/Jenks Consultants, 2016).

GRRP has limited storage capacity of 2.2 MGD, as previously discussed in Section 3.2.2, and would not meet the Program's goal of offsetting imported water demands by 30% in the study area. GRRP in the Santee Basin also has greater engineering challenges of injection and extraction that are more difficult to implement than SWA. In addition, extracted groundwater may need to be treated for additional water quality parameters (such as nitrate and MTBE) that are known to be higher than the drinking water standards at certain locations in Santee Basin.

SWA has the fewest barriers for implementation; however public acceptance may be lower due to misunderstanding of treatment processes surrounding potable reuse, and specifically SWA. To counter this, Padre Dam has undertaken extensive outreach to the public while planning and implementing the East County AWP Program. Padre Dam has been operating a 100,000 gal/day capacity AWP Demonstration Facility since 2015 in an effort to gain regulatory approval for the proposed advanced water treatment processes and for public education and outreach. Tours are regularly provided at the AWP Demonstration Facility, with 51 tours given in Fiscal Year 2018 and 49 tours given in Fiscal Year 2017, reaching a total of 2,441 people in two years. Activities such as these tours help to educate stakeholders on the value the Project has to the region and how potable reuse is an important tool for managing limited water resources. Padre Dam plans on continued outreach as Phases I and II of the Program are implemented.

3.4 Water and Wastewater Agencies

The water and wastewater agencies that have jurisdiction in the study area include Padre Dam, Helix, El Cajon, and the County.

3.5 Potential Sources of Water

Wastewater from Padre Dam, El Cajon and the County are the only sources of water to be reclaimed within the study area. There are no other wastewater flows that could feasibly be routed to convey wastewater to the Ray Stoyer WRF and the subsequent AWP facility. As previously discussed in Section 3.2.2 Groundwater Recharge and Recovery Market Assessment, there is limited potential to use groundwater as a resource due to the limited storage capacity of the groundwater basin. Additionally, any withdrawals from the aquifer would need to be balanced with injections due to the slow recharge rate of groundwater.

3.6 Source Water Facilities

As stated previously in Section 1.2.2, recycled water that is produced at Padre Dam's Ray Stoyer WRF is sent to either the Santee Lakes Recreation Preserve or to recycled water customers for NPR. The Ray Stoyer WRF currently has capacity of 2.0 MGD. It is currently permitted for up to 2.0 MGD of live stream discharge from the Santee Lakes into Sycamore Creek. The Ray Stoyer WRF currently treats wastewater exclusively from Padre Dam's service area. The current treatment process at the Ray Stoyer WRF includes primary sedimentation, Biological Nutrient Removal (BNR) which includes nitrogen and phosphorus removal utilizing a 5-stage Bardenpho process, secondary clarification, rapid mix, flocculation, filtration, and chlorination.

The Phase I Project will expand the WRF treatment capacity to 6.0 MGD and add a 3.5 MGD production capacity AWP facility consisting of microfiltration, reverse osmosis, UV/oxidation, free chlorination, brine minimization process and post stabilization. Treated water from the AWP facility would then be sent to Lake Jennings where it would undergo dechlorination before being discharged for SWA to Lake Jennings.

3.7 Existing Water Reuse

Padre Dam currently provides tertiary treated recycled water to landscape irrigation customers, Sycamore Landfill for landfill operations, and to Santee Lakes for lake water replenishment for recreation. The existing recycled water customers are entirely located in the WSA of Padre Dam, and no recycled water service is provided to the ESA. Padre Dam's customer base uses recycled water predominantly for irrigation, except for Sycamore Landfill, which uses recycled water for dust control and rock crushing operations. Historically, the total demand for recycled water has been around 1.8 MGD since 2011. The detailed yearly recycled water demands from 2001 through 2014 is provided in Section 3 of the Planning Study (Kennedy/Jenks Consultants, 2016).

3.8 Current and Projected Wastewater

Padre Dam collected approximately 3.6 MGD of wastewater in 2018 from wastewater customers within its service area, with a portion being treated at the Ray Stoyer WRF and the rest being sent to the Metro System. By 2050, Padre Dam is projected to collect approximately 5.0 MGD of wastewater generated in its service area. The other two wastewater agencies in the study area, El Cajon and the County, generated approximately 6.1 MGD and 3.9 MGD of wastewater, respectively, in 2018 and are projected to generate 7.8 MGD and 5.6 MGD, respectively, by 2050.

The Phase I Project will expand the Ray Stoyer WRF treatment capacity to 6.0 MGD to treat all of Padre Dam's wastewater and avoid sending a portion to Metro, except during high flow events (Padre Dam, 2019). However, Phase I does not improve El Cajon and the County's wastewater needs. The future wastewater conveyance and associated costs are discussed further in Section 5.1.

4. DESCRIPTION OF ALTERNATIVES

4.1 Non-Federal Funding Condition

Phase II Project implementation is dependent on securing Federal funding. If this funding is not secured, financial feasibility of Phase II would be dependent on securing alternate funding sources such as low-interest loans through the Water Infrastructure Finance and Innovation Act (WIFIA) program, Clean Water State Revolving Fund (CWSRF) program, or tax exempt bonds.

4.2 Objective of Alternatives

The objectives of all alternatives, including the proposed Phase II Project, are to:

- Diversify water supply for East County to the extent possible in a cost-effective manner.
- Further reduce the region's dependence on imported water.
- Further reduce the region's dependence on the Metro System for wastewater treatment and disposal.

4.3 Alternative Measures

This section is meant to address item 4f from the Title XVI Directives and Standards (Reclamation, 2017), "Description of at least two alternative measures, or technologies available for water reclamation, distribution, and reuse for the project under consideration. These alternatives must be approvable by the state(s) or tribal authorities in which the project will be located." Thus, a no project alternative which would not include increased water reclamation and would consist of continued use of imported water is not addressed here (instead it is evaluated in Section 5, Economic Analysis). Two alternative measures to the proposed Title XVI Project available for water reclamation and reuse in the study area include Maximizing NPR (Alternative 1) and Potable Reuse: Groundwater Recharge (Alternative 2). These alternatives would not necessarily supply the same water demand as the Phase II Project; each is described in the following sections.

4.3.1 Alternative 1 – Maximizing NPR

Alternative 1 – Maximizing NPR would expand Padre Dam's tertiary treatment capacity from 6.0 MGD (Ray Stoyer WRF capacity after implementation of Phase I) to 7.5 MGD to meet the future feasible NPR demands and would offset a portion of imported water from the SDCWA. Future feasible NPR demand of 1.7 MGD was determined in the Planning Study and was discussed previously in Section 3.2.1 of this study (Kennedy/Jenks Consultants, 2016). Eight segments were identified as economically feasible compared to the price of imported water for a total of 1.7 MGD of future NPR demand. Padre Dam would continue to import water to meet potable demands beyond those offset by the additional 1.7 MGD of NPR. However, El Cajon and the County would receive little benefit because a smaller portion of wastewater generated within these agencies would be sent to the Ray Stoyer WRF. In 2018, wastewater flows generated in Padre Dam's service area were approximately 3.6 MGD, while El Cajon and the County generated 6.1 MGD and 3.9 MGD, respectively, in their service areas. El Cajon and the County would need to convey a combined total of 4 MGD, or 40% of their 2018 wastewater flows to the WRF to meet the total WRF demand of 7.5 MGD. This would require modification of the existing East Mission Gorge Pump Station (EMGPS) and construction of a new East Mission Gorge Force Main (EMGFM) to convey 4 MGD of flows to the WRF. Helix would continue to purchase a majority of their potable water from the SDCWA. Alternative 1 would provide marginal benefits to the region, but the threat of water scarcity and reliance on non-regional agencies would persist.

The 7.5 MGD tertiary treatment capacity was selected because it is the capacity required to meet future and existing NPR demands for Padre Dam's service area as summarized in Table 4-1 below. After losses due to the treatment processes, the 7.5 MGD capacity would produce a total of 7.0 MGD. This assumes 5% losses during primary/secondary treatment and 2.5% losses during tertiary treatment. The existing recycled water demands include replenishment to Santee Lakes, AWP facility for SWA from the Phase I Project, and existing NPR. Future recycled water demand includes additional NPR users.

Table 4-1: Ray Stoyer WRF Tertiary Water Uses

Ray Stoyer WRF End Use	Demand (MGD)
Santee Lake Replenishment	1.0
AWP Facility for SWA (Phase I Project)	3.5
Existing NPR	0.8
Future NPR	1.7
Total	7.0

Source: East County Advanced Water Purification Program Planning Study (Kennedy/Jenks Consultants, 2016)

Alternative 1 – Maximizing NPR would consist of the following infrastructure elements:

- Construction of a new 1.5 MGD tertiary treatment plant.
- Expansion of the solids handling facility built in Phase I to allow for an additional 1.5 MGD of additional wastewater loading, for a total capacity of 7.5 MGD.
- Retrofits of the existing EMGPS to replace mechanical and electrical components to repurpose the use for pumping 4.0 MGD of sewer flow to the WRF and new tertiary treatment plant.
- Construction of the EMGFM, which includes approximately 18,200 linear feet of 18-inch diameter force main from EMGPS to the WRF.
- Construction of a Residuals Bypass System to prevent brine from recirculating to the WRF, which includes; sliplining approximately 8,800 linear feet of existing 24-inch pipeline, approximately 3,100 linear feet of a new 16-inch gravity pipeline (open-cut), approximately 3,500 linear feet of a new 12-inch force main (trenchless) under San Diego River, and a new 0.6 MGD lift station.
- Construction of eight recycled water distribution pipeline segments totaling approximately 35,900 linear feet of 6- to 18-inch diameter pipeline to deliver NPR to future customers.

Alternative 1 – Maximizing NPR is further evaluated in Section 5, Economic Analysis.

4.3.2 Alternative 2 – Potable Reuse: Groundwater Recharge

Alternative 2 would be similar to the Phase II Project in that it would be a potable reuse project, which produces advanced treated recycled water (i.e. purified water) suitable for potable reuse when coupled with an environmental buffer. However, rather than SWA, the environmental buffer would consist of a groundwater basin at Santee Basin. This alternative is how Padre Dam initially envisioned implementing the Program. Groundwater recharge was initially selected because regulations were already in place (unlike the SWA regulations) and would allow Padre Dam to pursue

potable reuse. However, the Santee Basin has limited capacity of extraction/injection of 2.2 MGD, as previously discussed in Section 3.2.2. This is approximately 18% of the 12.5 MGD capacity for SWA at Lake Jennings and would require Padre Dam and Helix to continue to rely on imported water supplies. Therefore, potable reuse with GRRP would be very limited in capacity and would not provide a potential for future expansion of the Program.

The envisioned GRRP would consist of a series of extraction and injection wells and would utilize purified water treated at the AWP facility. Water would be conveyed via the 12-inch purified water conveyance pipeline that will be constructed during the Phase I Project on the way to Lake Jennings, but a portion would then be injected at the Santee Basin site along the alignment (Kennedy/Jenks Consultants, 2016). However, the pipeline from the AWP facility to Lake Jennings that will be constructed as part of the Phase I Project has more capacity than needed for Phase I only and performing potable reuse through GRRP would not put the pipeline to its best use.

The limited capacity of the Santee Basin for GRRP results in a retention time of less than 6 months. This would require further AWP treatment capabilities in order to meet the 12/10/10 log pathogen removal requirements for implementation of GRRP, as discussed in Section 3.2.2. SWA at Lake Jennings is able to meet the required retention time in the reservoir and would not require further AWP treatment capabilities.

GRRP application in the Santee Basin also has greater engineering challenges of injection and extraction due to the limited geographic mapping information available for the basin and close proximity to the San Diego River. In addition, extracted groundwater may need to be treated for additional water quality parameters (such as nitrate and MTBE) that are known to be higher than the drinking water standards at certain locations in the Santee Basin. Lastly, implementing a GRRP project in the Santee Basin could create a water rights issue with the City of San Diego's Pueblo Water Rights in the region, which can impact overall project feasibility.

All these challenges in combination of the price uncertainty with implementing GRRP at the Santee Basin that is competitive with imported water supplies has resulted in this alternative being eliminated from further consideration.

5. ECONOMIC ANALYSIS

Section 5 addresses item 5 from the Title XVI Directives and Standards (Reclamation, 2017) and includes an economic analysis of the Phase II Project relative to other water supply alternatives resulting in the same supply volume (8,960 AFY) that could be realistically implemented. As described in Section 5.3, Cost Comparison of Alternatives, the water supply alternatives compared to the Phase II Project include the No Project Alternative and Alternative 1 – Maximizing NPR (described in Section 4.3.1). Alternative 2 – Potable Reuse: Groundwater Recharge is not evaluated in the economic analysis since this alternative is determined to be not feasible after further evaluation as described in Section 4.3.2 and it was eliminated from further consideration.

5.1 Existing and Projected Conditions in Service Area

In 2015, Padre Dam and Helix served 12,191 AFY and 31,139 AFY, respectively, of potable water to customers with projected use of 16,816 AFY and 33,316 AFY in 2040, as previously discussed in Section 2.3 (Brown and Caldwell, 2016). Padre Dam purchases all its potable supply from the SDCWA, while Helix purchases approximately 90% from SDCWA. Approximately 90% of SDCWA's potable water is comprised of imported water from the Colorado River and the SWP, while the remaining 10% is desalinated water. Padre Dam and Helix's opportunities for expanding their local water supplies are limited, and as a result have developed the ECAWP Program to create a new potable water supply through potable reuse. Without the Phase II Project, Padre Dam and Helix would continue to purchase a large portion of their water from SDCWA to meet potable demands and would be subject to substantial projected cost increases associated with continued reliance on imported water.

Padre Dam, El Cajon and the County currently rely solely on the Metro System to convey wastewater to be treated at the Point Loma WWTP. The Phase I Project will be capable of treating all of Padre Dam's wastewater locally, except in wet weather flow scenarios. Disposal of wastewater through the Metro System is anticipated to become increasingly expensive due to future environmental improvements required at Point Loma WWTP and the implementation of the City of San Diego's Pure Water San Diego Program. The Phase II Project would allow El Cajon and the County to convey a majority of their wastewater flows to the WRF and AWP facility for treatment, rather than to the Metro System, thereby reducing future costs by minimizing their reliance on the Metro System.

With the implementation of the Phase II Project, Padre Dam and Helix's potable supplies would increase by 8,960 AFY. This, combined with the Phase I Project potable supply of 3,920 AFY (3.5 MGD), would offset Padre Dam and Helix's imported water by 12,880 AFY (11.5 MGD). As shown in Table 5-1, the Phase II Project supply of 8,960 AFY (8 MGD) equates to 20% of Padre Dam and Helix water demands in 2020 and 18% of demands in 2040. Potable supplies from the Phase I and Phase II Projects make up 29% of 2020 demands and 26% of 2040 demands. All potable water created by the Program will provide potable water to Padre Dam and Helix customers.

The Phase II Project would allow Padre Dam and Helix to import significantly less water from the SDCWA, therefore saving on costs. The cost of imported water is expected to rise and a quantitative cost analysis is presented in Section 5.2 and 5.3 below. In addition to the cost saving benefits, the Phase II Project would reduce withdrawal from natural water courses, such as the Colorado River and natural water ways that supply the SWP, and create a more reliable and sustainable local source of water.

Table 5-1: Padre Dam and Helix Potable Water Demand

Service Area	2020 Potable Water Demand (AFY)	2040 Potable Water Demand (AFY)
Padre Dam	12,535	16,816
Helix	31,274	33,316
Total	43,809	50,132
Phase II Project Potable Water Supply (AFY)	8,960	8,960
% of Demand	20%	18%
Phase I and Phase II Potable Water Supply (AFY)	12,880	12,880
% of Demand	29%	26%

5.2 Proposed Phase II Project Cost Estimate

The Phase II Project includes the following design elements:

1. Expansion of the Ray Stoyer WRF primary, secondary and tertiary treatment from 6 MGD to 15 MGD.
2. Construction of solids handling facility for the additional 9 MGD of wastewater loading, including thickeners, anaerobic digesters, dewatering and truck load out building.
3. Expansion of the Phase I AWP facility including MF, RO, UV/oxidation, brine minimization process, free chlorination, and post stabilization to produce purified water from 3.5 MGD to 11.5 MGD.
4. Retrofits to the existing EMGPS, including replacing mechanical and electrical components, to repurpose its use to instead pump 9 MGD of sewer flow to the WRF.
5. Construction of the EMGFM, which includes approximately 18,200 linear feet of 30-inch diameter sanitary sewer force main from EMGPS to the Ray Stoyer WRF, including approximately 14,700 linear feet of open-cut piping and approximately 3,500 linear feet of trenchless piping under San Diego River.
6. Construction of a Residuals Bypass System to prevent recirculating brine back to the Ray Stoyer WRF. It includes: sliplining approximately 8,800 linear feet of existing 24-inch pipeline, approximately 3,100 linear feet of 16-inch diameter open cut gravity pipeline, approximately 3,500 linear feet of 12-inch diameter trenchless piping under San Diego River and a new 1.7 MGD lift station.

The Phase II Project total estimated design and construction cost is \$251.6 million. This includes soft costs for planning, design, environmental, permitting, and construction management estimated at \$66.7 million, and construction costs estimated at \$184.9 million. Construction contingencies are applied to each component at an assumed contingency of 25% or 30% depending on the level of design completed for each facility improvement. All costs are presented in 2019 dollars. The Phase II Project capital cost by element is summarized in Table 5-2.

Table 5-2: Capital Costs

	East Mission Gorge PS Rehabilitation ^a	East Mission Gorge FM ^a	Residuals Bypass System ^a	WRF Primary & Secondary Processes (9 MGD) ^b	WRF Solids Handling Processes (9 MGD) ^b	WRF Tertiary Treatment & Disinfection (9 MGD) ^b	AWP Facility, Product Water PS, & Visitor's Center (8 MGD) ^b	Total
Design	\$640,000	\$1,630,000	\$780,000	\$7,350,000	\$2,690,000	\$810,000	\$4,620,000	\$18,520,000
Environmental/ Permitting	\$200,000	\$490,000	\$240,000	\$2,210,000	\$810,000	\$250,000	\$1,390,000	\$5,590,000
Legal/Admin	\$200,000	\$490,000	\$240,000	\$2,210,000	\$810,000	\$250,000	\$1,390,000	\$5,590,000
Project Management	\$640,000	\$1,630,000	\$780,000	\$7,350,000	\$2,690,000	\$810,000	\$4,620,000	\$18,520,000
Construction Management	\$640,000	\$1,630,000	\$780,000	\$7,350,000	\$2,690,000	\$810,000	\$4,620,000	\$18,520,000
Soft Costs Subtotal	\$2,320,000	\$5,870,000	\$2,820,000	\$26,470,000	\$9,690,000	\$2,930,000	\$16,640,000	\$66,740,000
Construction	\$4,890,000	\$12,530,000	\$5,960,000	\$58,760,000	\$21,500,000	\$6,410,000	\$36,890,000	\$146,940,000
Construction Contingency (25% or 30%)	\$1,470,000	\$3,760,000	\$1,790,000	\$14,690,000	\$5,380,000	\$1,610,000	\$9,230,000	\$37,930,000
Construction Subtotal	\$6,360,000	\$16,290,000	\$7,750,000	\$73,450,000	\$26,880,000	\$8,020,000	\$46,120,000	\$184,870,000
Total	\$8,680,000	\$22,160,000	\$10,570,000	\$99,920,000	\$36,570,000	\$10,950,000	\$62,760,000	\$251,610,000

Notes:

a) Construction contingency of 30%.

b) Construction contingency of 25%.

Annual operation and maintenance (O&M) and replacement costs are estimated to be \$11.78 million/year. Total cost, including O&M and replacement, are estimated to be \$707 million over the 60-year project life. Annual costs are divided into electrical and non-electrical and are presented in Table 5-3 below. Electrical costs include pumping, aeration, mechanical, and ancillary needs while non-electrical costs include general operation and maintenance, labor and replacement costs. A detailed breakdown of capital and O&M costs are presented in Appendix B.

Table 5-3: Annual O&M and Replacement Costs

Program Facility	Non-Electricity (\$/year)	Electricity (\$/year)	Total (\$/year)
East Mission Gorge Pump Station	\$567,000	\$635,000	\$1,202,000
Residuals Bypass LS & Pipeline	\$67,000	\$15,000	\$82,000
WRF through Secondary Facilities	\$676,000	\$818,000	\$1,494,000
WRF Tertiary Facilities	\$246,000	\$128,000	\$374,000
Solids Handling Facilities	\$211,000	\$106,000	\$317,000
Class B Biosolids Disposal and Hauling	\$855,000	\$0	\$855,000
Wet Weather Flows Disposal to Metro	\$405,000	\$0	\$405,000
Brine Disposal to Metro	\$407,000	\$0	\$407,000
Centrate Disposal to Metro	\$685,000	\$0	\$685,000
Wastewater Labor	\$1,477,000	\$0	\$1,477,000
Clean Water Labor	\$514,000	\$0	\$514,000
WRF Laboratory expenses	\$27,000	\$0	\$27,000
AWP Laboratory expenses	\$27,000	\$0	\$27,000
AWP Facility	\$1,611,000	\$2,305,000	\$3,916,000
TOTAL	\$7,775,000	\$4,007,000	\$11,782,000

The Phase II Project will provide both water and wastewater services by generating a raw potable water source from recycled wastewater. Therefore, water and wastewater cost allocation has been developed to determine the cost of services provided as presented below.

The Phase II Project will provide water production services by treating secondary flows, produced by the wastewater treatment services components, to tertiary recycled water and advanced purified water. Costs for water production are those costs to treat from secondary through tertiary, advanced purification, and a portion of the residuals bypass system. This cost allocation methodology is consistent with the other potable reuse projects where cost allocation is done between wastewater and water services. The Phase II Project is anticipated to produce approximately 8,960 AFY of potable water when it is at full capacity. The unit cost of creating this new water supply (in \$ /AF) is shown in Table 5-4 below.

Wastewater treatment costs, to be borne by the Phase II Project, include costs associated with treating wastewater through secondary, which is a common point used for potable reuse projects to define the wastewater services since secondary treated effluent is needed at a minimum for ocean disposal according to the Clean Water Act. Therefore, costs for the Phase II Project's wastewater treatment include capital, annual O&M, and replacement costs related to the following facilities: EMGPS, EMGFM, WRF through secondary treatment facilities, solids handling facilities, and a portion of the residuals bypass system. The Phase II Project will treat 9 MGD of wastewater to secondary effluent

quality. The unit cost of wastewater treatment provided by the Phase II Project is calculated in units of \$/ MG of wastewater and shown in Table 5-5 below.

Table 5-4: Cost of Water Production for the Phase II Project

Element	Quantity
Capital Cost^a	\$83,046,000
Annualized Capital Cost (Debt Service)^b	\$3,708,000
Annual O&M and Replacement Cost	\$5,238,000
Total Annual Cost	\$8,946,000
New Water Supply (AFY)	8,960
Total Annual Cost (\$/AF)	\$998

Notes:

a) Capital cost related to water production. See Appendix B for enterprise allocation breakdown.

b) Based on interest rate of 2% over 30-year period.

Table 5-5: Cost of Wastewater Treatment for the Phase II Project

Element	Quantity
Capital Cost^a	\$168,564,000
Annualized Capital Cost (Debt Service)^b	\$7,527,000
Annual O&M and Replacement Cost	\$6,544,000
Total Annual Cost	\$14,071,000
Treatment Capabilities (MGD)	9.0
Total Annual Cost (\$/MG)	\$4,283

Notes:

a) Capital cost related to wastewater treatment. See Appendix B for enterprise allocation breakdown.

b) Based on interest rate of 2% over 30-year period.

5.3 Cost Comparison of Alternatives

The cost of the Phase II Project is compared to two other alternative projects including the No Project Alternative and Alternative 1 – Maximizing NPR. For cost comparison purposes, both alternative projects are scoped to provide the same quantity of wastewater services and supply the same amount of water. Each alternative would provide wastewater treatment and disposal for 9 MGD of flow since the Phase II Project will expand East County's wastewater treatment capabilities by 9 MGD, therefore decreasing the quantity of wastewater conveyed to Metro by the same amount. Similarly, each alternative would supply or offset 8,960 AFY of potable water in order to be consistent with the quantity of potable reuse produced by the Phase II Project when fully implemented in 2025.

The No Project Alternative would continue to convey 9 MGD of wastewater to Metro for treatment and disposal. Subsequently, the No Project Alternative consists of Padre Dam and Helix continuing to purchase all imported water from the SDCWA rather than offsetting 8,960 AFY of their potable water demand.

Under Alternative 1 – Maximizing NPR, an additional 1.5 MGD of wastewater treatment capacity would be added to the Ray Stoyer WRF and the remaining 7.5 MGD of wastewater would be conveyed to Metro. Alternative 1 – Maximizing NPR would create an additional 1,900 AFY (1.7 MGD) of tertiary treated recycled water for NPR to offset potable supplies, and the remaining 7,060 AFY of potable water would be purchased by Padre Dam and Helix from the SDCWA.

5.3.1 No Project Alternative Cost Comparison

5.3.1.1 No Project Alternative Cost Estimate

Padre Dam and Helix have completed an extensive analysis of SDCWA's projected costs based on the SDCWA 2015 Long Range Financing Plan (SDCWA, 2015). Costs include a melded supply rate, transportation, storage, and customer service fees. These costs are escalated to reflect the increasing cost of imported water and adjusted for sales projections. Imported water cost increases are associated with supply limitations due to increased conservation regulations and infrastructure improvements due to the California WaterFix project and other capital improvement projects, along with inflation. The projection also includes rate impacts from the SDCWA member agencies that will opt-out as they develop local water supply projects of their own in the future (such as City of San Diego with its Pure Water Program). This analysis forecasts costs to 2045. Projected imported water costs are shown in Figure 5-1 and Table 5-6 in 2019 dollars.

Figure 5-1: Future SDCWA Imported Water Costs

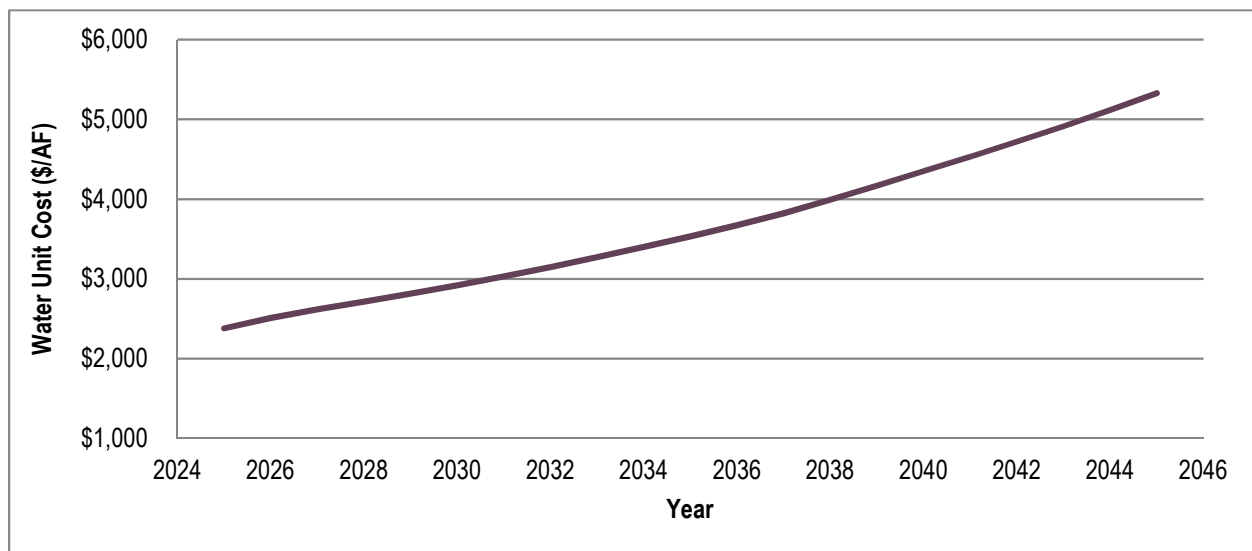


Table 5-6: Future Imported Water Cost (2019 Dollars)

Year	Quantity (\$/AF)	Year	Quantity (\$/AF)
2025	\$2,381	2035	\$3,536
2026	\$2,513	2036	\$3,676
2027	\$2,620	2037	\$3,823
2028	\$2,715	2038	\$3,992
2029	\$2,815	2039	\$4,169
2030	\$2,922	2040	\$4,354
2031	\$3,033	2041	\$4,534
2032	\$3,150	2042	\$4,722
2033	\$3,273	2043	\$4,915
2034	\$3,401	2044	\$5,116
		2045	\$5,328

Source: 2018 East County AWP Program Financial Proforma Model (Padre Dam, 2018)

Metro's treatment costs are projected to increase significantly due to planned system upgrades under the City of San Diego's Pure Water Program. The Pure Water Program is a potable reuse program similar to the ECAWP Program. In order to generate potable reuse water, the City of San Diego is planning to construct approximately 108 MGD capacity (38 MGD in Phase I and 70 MGD in Phase II) new wastewater treatment facilities and pump stations upstream of Point Loma WWTP to generate tertiary treated recycled water to feed AWP facilities. These wastewater-related improvements are driving the unit wastewater treatment cost up for the participating agencies to Metro, including Padre Dam, El Cajon and the County. Phase I of the Pure Water Program is expected to be online by 2023 and is expected to increase the wastewater treatment costs to approximately \$5,500/MG until the Implementation of Phase II of Pure Water Program in 2035 when Metro treatment costs are projected to exceed \$10,000/MG (in 2019 dollars). This analysis forecasts costs to 2045. Projected Metro disposal costs are shown in Figure 5-2 and Table 5-7 in 2019 dollars.

Figure 5-2: Projected Wastewater Treatment Costs for Metro

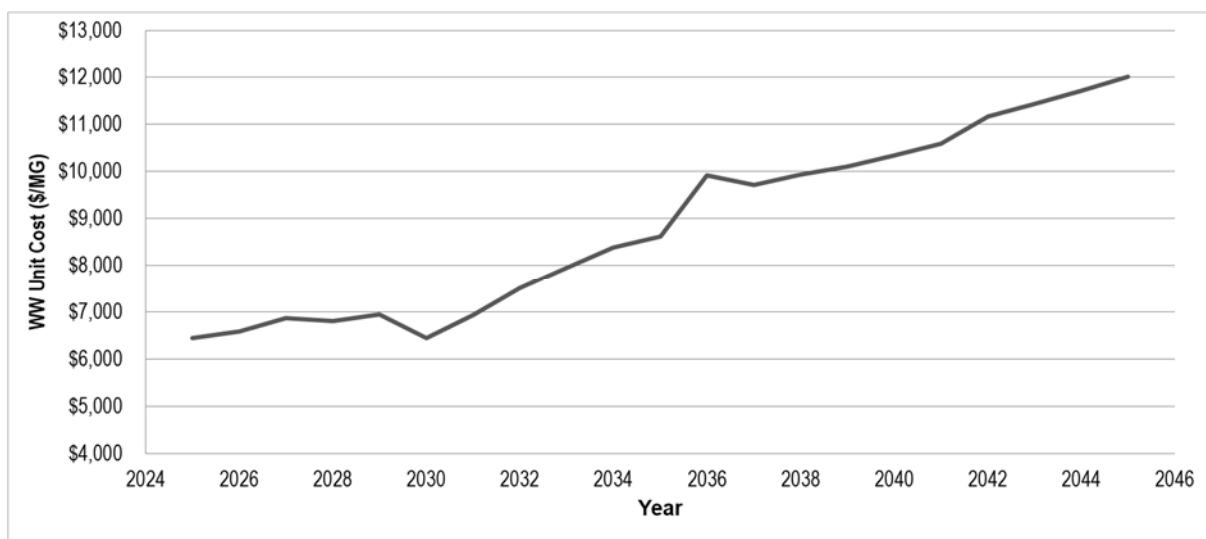


Table 5-7: Projected Wastewater Treatment Costs for Metro (2019 Dollars)

Year	Quantity (\$/MG) ^a	Year	Quantity (\$/MG) ^a
2025	\$6,442	2035	\$8,612
2026	\$6,586	2036	\$9,916
2027	\$6,863	2037	\$9,713
2028	\$6,802	2038	\$9,929
2029	\$6,951	2039	\$10,102
2030	\$6,438	2040	\$10,340
2031	\$6,936	2041	\$10,586
2032	\$7,513	2042	\$11,166
2033	\$7,948	2043	\$11,437
2034	\$8,392	2044	\$11,718
		2045	\$12,010

Notes:

a) Average of base case and high case taken from 2018 East County AWP Program Financial Proforma Model (Padre Dam, 2018).

5.3.1.2 No Project Alternative Cost Comparison with Phase II Project

In order to compare the No Project Alternative and Phase II Project, both water and wastewater service costs are compared for the same amount of flows. The cost of purchasing imported water is compared to the cost of water production that would be supplied by the Phase II Project and the cost of wastewater treatment and disposal through Metro is compared to wastewater treatment provided under Phase II Project.

The cost comparison is done over a selected time period. For the purposes of the comparison it is assumed the Phase II Project is also financed with a low-interest loan in which its debt service would be repaid over a period of 30-years. Therefore, as explained in Section 5.2, the annualized capital cost is calculated based on a 30 year payback period and a 2% interest rate. The annual O&M and replacement costs are added to the annualized capital cost to calculate the total annualized project cost. Additionally, cost projections of the SDCWA's imported water supplies and Metro's wastewater treatment costs were developed up to 2045; projections are more uncertain beyond 2045 due to lack of source data used for the projections. Average SDCWA's imported water supplies and Metro's wastewater treatment costs were calculated between 2025 (project online year for Phase II Project) and 2045, and average unit costs were used for the comparison. This approach provided a comparable analysis since both No Project Alternative and Phase II Project costs are annualized average costs.

Water Production Services Costs

The No Project Alternative would require Padre Dam and Helix to continue importing most of its water from the SDCWA to serve residents in East County. As shown in Section 5.3.1.1, the SDCWA imported cost is anticipated to rise steadily over the next few decades. When the Phase II Project is fully implemented in 2025, the cost of imported water is anticipated to be \$2,381/AF and will rise to \$5,328/AF by 2045 (in 2019 dollars). The average cost of imported water from the SDCWA from 2025 through 2045 is \$3,666/AF (in 2019 dollars) and this cost is used for the cost comparison. The No Project Alternative would result in a total annual cost of \$32.8 million as summarized in Table 5-8

As previously described in Section 5.2, the cost per acre foot of water produced by the Phase II Project is calculated by summing annual O&M costs, replacement costs, and debt service costs, and dividing by the annual volume of water produced (8,960 AFY). The average unit cost for the new water supply production under the Phase II Project is

\$998/AF. This equates to total annual cost of \$8.9 million as shown in Table 5-8. Padre Dam and Helix would save approximately \$23.9 million on the water side by implementing the Phase II Project.

Table 5-8: No Project Alternative Water Cost Comparison

	No Project Alternative	Phase II Project	Cost Savings
Water Supply^a (AFY)	8,960	8,960	--
Cost of Water^b (\$/AF)	\$3,666	\$998	--
Total Annual Cost (\$million)	\$32.8	\$8.9	\$23.9

Notes:

- a) Additional imported water to match the Phase II Project potable water production (8,960 AFY).
- b) Imported water average cost for 2025-2045 is \$3,666/AF.

Wastewater Services Costs

Under the No Project Alternative, East County would continue to rely on wastewater treatment at Metro's Point Loma WWTP. As shown in Section 5.3.1.1, the Metro wastewater disposal cost is anticipated to rise steadily over the next few decades. When the Phase II Project is fully implemented in 2025, the cost of Metro disposal is anticipated to be \$6,442/MG and will rise to \$12,010/MG by 2045 (in 2019 dollars). The average cost of Metro wastewater disposal from 2025 through 2045 is \$8,876/MG (in 2019 dollars) and this cost is used for the cost comparison. The No Project Alternative would result in a total annual cost of \$29.2 million as summarized in Table 5-9.

The cost of wastewater that would be treated locally by Padre Dam is compared to the cost of wastewater that would continue to be sent to Metro in the No Project Alternative. As previously described in Section 5.2, the cost per million gallons of wastewater treatment by the Phase II Project is calculated by summing annual O&M costs, replacement costs, and annualized debt service costs, and dividing by the annual volume of wastewater flow handled (based on 9 MGD of flow). The average unit cost for the new wastewater treatment under Phase II Project is \$4,283/MG. This equated to total annual cost of \$14.1 million. Padre Dam, El Cajon, and the County would realize an annual wastewater treatment cost savings of \$15.1 million as a result of the Phase II Project.

Table 5-9: No Project Alternative Wastewater Treatment Cost Comparison

	No Project Alternative	Phase II Project	Cost Savings
Wastewater Flow^a (MGD)	9.0	9.0	--
Cost of Wastewater Treatment^b (\$/MG)	\$8,876	\$4,283	--
Total Annual Cost (\$million)	\$29.2	\$14.1	\$15.1

Notes:

- a) Exported wastewater volume to match the Phase II Project wastewater treatment capacity (9 MGD).
- b) Average cost to send wastewater to Metro from 2025 to 2045 is \$8,876/MG.

5.3.2 Alternative 1 – Maximizing NPR Cost Comparison

5.3.2.1 Alternative 1 - Maximizing NPR Cost Estimate

The infrastructure improvements needed under this alternative were discussed in Section 4.3.1. The capital and annual O&M and replacement costs for these infrastructure improvements are presented in Table 5-10 and

Table 5-11 in 2019 dollars. The basis for the Alternative 1 cost estimate is provided in Appendix B. The capital costs were estimated by scaling the Phase II costs based on flows for the common facilities (e.g., instead of a 9 MGD EMGFM, Alternative 1 requires a 4 MGD EMGFM). The cost estimate for the Recycled Water Distribution Expansion was developed as part of the Planning Study (Kennedy/Jenks Consultants, 2016).

Table 5-10: Alternative 1 Construction Costs

Facility	Raw Construction Cost ^a	Contingency and Soft Costs ^d	Total Capital Cost
East Mission Gorge Pump Station Rehabilitation (4 MGD) ^b	\$2,180,000	\$1,438,800	\$3,618,800
East Mission Gorge Force Main (4 MGD) ^b	\$7,520,000	\$4,963,200	\$12,483,200
Residuals Bypass System (0.6 MGD) ^b	\$2,110,000	\$1,392,600	\$3,502,600
WRF Primary & Secondary Processes (additional 1.5 MGD) ^c	\$9,800,000	\$6,468,000	\$16,268,000
WRF Solids Handling Processes (additional 1.5 MGD) ^c	\$3,590,000	\$2,369,400	\$5,959,400
WRF Tertiary Treatment & Disinfection (additional 1.5 MGD) ^c	\$1,070,000	\$706,200	\$1,776,200
Recycled Water Distribution Expansion Segments (8 segments, additional 1.7 MGD) ^b	\$15,830,000	\$10,447,800	\$26,277,800
TOTAL	\$42,100,000	\$27,786,000	\$69,886,000

Notes:

- a) Scaled based on flow ratios from Phase II costs.
- b) Contingency is 30% of the raw construction cost for this facility.
- c) Contingency is 25% of the raw construction cost for this facility.
- d) Soft costs are calculated as a percent of the raw construction cost and include; Final Design (10%), Environmental and Permitting (3%), Legal and Administrative (3%), Project Management (10%), and Construction Management (10%).

Table 5-11: Alternative 1 Annual O&M and Replacement Costs

	Non-Electricity	Electricity	Total
East Mission Gorge PS (4 MGD) ^a	\$252,000	\$283,000	\$535,000
Residuals Bypass System (0.6 MGD) ^a	\$30,000	\$10,000	\$40,000
WRF Primary & Secondary Processes (additional 1.5 MGD) ^a	\$113,000	\$137,000	\$250,000
WRF Solids Handling Processes (additional 1.5 MGD) ^a	\$178,000	\$18,000	\$196,000
WRF Tertiary Treatment & Disinfection (additional 1.5 MGD) ^a	\$41,000	\$23,000	\$64,000
Recycled Water Expansion Segments (8 segments, additional 1.7 MGD)	\$1,808,000	\$297,000	\$2,105,000
Wet Weather Flows to Metro ^a	\$68,000	\$0	\$68,000
Centrate Disposal to Metro ^a	\$115,000	\$0	\$115,000
Brine Disposal to Metro ^a	\$130,000	\$0	\$130,000
Wastewater Labor ^a	\$247,000	\$0	\$247,000
WRF Laboratory Expenses ^a	\$5,000	\$0	\$5,000
TOTAL	\$2,987,000	\$768,000	\$3,755,000

Notes:

a) Scaled based on flows from Phase II replacement and O&M costs.

Alternative 1 will provide both water and wastewater services by generating a tertiary treated recycled water source from wastewater. Therefore, water and wastewater cost allocation has been developed to determine the cost of services provided as presented below.

Alternative 1 will provide water production services by treating secondary flows produced by the wastewater treatment service components to tertiary recycled water and disinfection. Costs for water production are those costs to treat from secondary through tertiary effluent compliant with the Title 22 regulatory requirements for NPR use resulting in recycled water that would offset potable supplies. Alternative 1 is anticipated to produce approximately 1,900 AFY of NPR water. The unit cost of creating this new water supply (in \$/AF) is shown in Table 5-12 below.

Table 5-12: Cost of Water for Alternative 1

Element	Quantity
Capital Cost^a	\$31,148,000
Annualized Capital Cost (Debt Service)^b	\$1,391,000
Annual O&M and Replacement Cost	\$2,299,000
Total Annual Cost	\$3,690,000
New Water Supply (AFY)	1,900
Total Annual Cost (\$/AF)	\$1,942

Notes:

a) Capital cost related to water production. See Appendix B for enterprise allocation breakdown.

b) Based on interest rate of 2% over 30-year period.

Wastewater treatment costs under Alternative 1 include costs associated with treating wastewater through secondary. Costs for Alternative 1's wastewater treatment include capital, annual O&M, and replacement costs related to the following facilities: EMGPS, EMGFM, WRF through secondary treatment facilities, solids handling facilities, and the residuals bypass system. Alternative 1 will treat 1.5 MGD of wastewater to secondary effluent quality. The unit cost of wastewater treatment provided by Alternative 1 is calculated in units of \$/MG of wastewater and is shown in Table 5-13 below.

Table 5-13: Cost of Wastewater Treatment for Alternative 1

Element	Quantity
Capital Cost^a	\$38,738,000
Annualized Capital Cost (Debt Service)^b	\$1,730,000
Annual O&M and Replacement Cost	\$1,456,000
Total Annual Cost	\$3,186,000
Treatment Capabilities (MGD)	1.5
Total Annual Cost (\$/MG)	\$5,819

Notes:

a) Capital cost related to wastewater treatment. See Appendix B for enterprise allocation breakdown.

b) Based on interest rate of 2% over 30-year period.

5.3.2.2 Alternative 1 Cost Comparison with Phase II Project

In order to compare Alternative 1 – Maximizing NPR and the Phase II Project, both water and wastewater service costs are compared for the same amount of flows. The cost of production of the additional tertiary water for the NPR demand and purchasing the remaining volume of imported water under Alternative 1 is compared to the cost of water production that would be supplied by the Phase II Project. Similarly, the cost of wastewater treatment and disposal through the combination of the expanded WRF and the Metro System under Alternative 1 is compared to providing wastewater treatment under the Phase II Project.

Water Production Services Costs

Alternative 1 – Maximizing NPR would construct a new 1.5 MGD treatment capacity WRF that would be able to provide 1,900 AFY of tertiary treated water for NPR. Padre Dam and Helix would continue to import the remaining 7,060 AFY of water demand from the SDCWA to serve residents in East County. Quantities and unit costs of the different water supply options and the total annual cost of water for Alternative 1 and Phase II Project are shown in Table 5-14. The Phase II Project results in an annual cost savings of \$20.7 million compared to Alternative 1.

Table 5-14: Alternative 1 – Maximizing NPR Water Cost Comparison

	Alternative 1- Maximizing NPR	Phase II Project	Cost Savings
New Water Supply^a (AFY)	1,900	8,960	--
Cost of New Water Supply^b (\$/AF)	\$1,942	\$998	--
Imported Water Supply^c (AFY)	7,060	NA	--
Cost of Imported Water^d (\$/AFY)	\$3,666	NA	--
Total Annual Cost^e (\$million)	\$29.6	\$8.9	\$20.7

Notes:

- a) New water supply refers to production of NPR quality water under Alternative 1 and production of purified water under Phase II Project.
- b) Refer to Sections 5.2 and 5.3.2.1 for calculation of the unit costs of production of new water supply for Alternative 1 and Phase II project, respectively.
- c) Additional imported water for Alternative 1 to match the Phase II Project potable water production of 8,960 AFY.
- d) Imported water average cost for 2025-2045 is \$3,666/AF.
- e) Weighted average based on 1,900 AFY of Recycled Water delivered and 7,060 AFY purchased for Alternative 1.

Wastewater Services Costs

The cost of providing 9.0 MGD of wastewater treatment and disposal services to East County residents under Alternative 1 – Maximizing NPR was compared to the cost of wastewater services provided for the same amount of flow in the Phase II Project. Alternative 1 – Maximizing NPR would expand the WRF capacity by 1.5 MGD for additional wastewater treatment. The remaining 7.5 MGD of wastewater would continue to be disposed of through Metro. Wastewater quantities, unit costs of WRF treatment and Metro disposal costs, and the total annual cost of wastewater services for Alternative 1 and the Phase II Project are shown in Table 5-15. The Phase II Project results in an annual cost savings of \$13.4 million as compared to Alternative 1.

Table 5-15: Alternative 1 – Maximizing NPR Wastewater Services Cost Comparison

	Alternative 1- Maximizing NPR	Phase II Project	Cost Savings
Wastewater for Local Treatment^a (MGD)	1.5	9.0	--
Cost of Local Wastewater Treatment^b (\$/MG)	\$5,819	\$4,283	--
Wastewater for Metro Treatment^c (MGD)	7.5	NA	--
Cost of Metro Treatment^d (\$/MG)	\$8,876	NA	--
Total Annual Cost^e (\$million)	\$27.5	\$14.1	\$13.4

Notes:

- a) Wastewater for local treatment refers to treatment of wastewater under Alternative 1 and treatment of wastewater under Phase II Project.
- b) Refer to Sections 5.2 and 5.3.2.1 for calculation of the unit costs of wastewater treatment and disposal for Alternative 1 and Phase II project, respectively.
- c) Additional wastewater conveyed to Metro to match the Phase II Project wastewater treatment capacity (9.0 MGD).
- d) Average cost to send wastewater to Metro from 2025 to 2045 is \$8,876/MG.
- e) Weighted average based on 1.5 MGD of locally treated wastewater and 7.5 MGD of conveyed wastewater to Metro.

6. SELECTION OF THE PROPOSED TITLE XVI PROJECT

6.1 Justification of Selection

The Phase II Project was selected over the alternatives due to the following reasons:

- It achieves all of the objectives by diversifying the water supply for East County to the extent possible in a cost effective manner, further reducing the region's dependence on imported water, and further reducing the region's dependence on the Metro System for wastewater treatment and disposal.
- It is the most cost effective with an annual cost of water production of \$8.95 million or \$998/AF as compared to the No Project Alternative and Alternative 1 - Maximizing NPR Alternative with a cost of \$32.8 million or \$3,666/AF and \$29.6 million or \$3,300/AF, respectively.
- It reduces the most wastewater flows being sent to Metro when compared to the other alternatives, resulting in a cost savings of \$15.1 million or \$4,593/MG and \$13.4 million or \$4,084/MG compared to the No Project Alternative and Alternative 1 – Maximizing NPR, respectively.
- It maximizes the use of the conveyance pipeline from the AWP facility to Lake Jennings that is being constructed as part of the Phase I Project.
- It directly supplements potable water supplies through 8.0 MGD (or 8,960 AFY) capacity of SWA and offsets an equal amount of imported supplies from the SDCWA, maximizing reuse and potable water supplies compared to the No Project Alternative, which has no offsets, and the Maximizing NPR Alternative, which offsets up to 1.7 MGD (1,900 AFY).

The selected Phase II Project will eliminate the need for expanded water supplies by turning wastewater into a renewable asset through advanced water purification and SWA. The region will no longer need to expand its use of imported water to meet the anticipated demand from future population growth. The decrease in imported water from the SDCWA will therefore reduce water withdrawals from natural water ways and reduce the demand on federal water supplies. Additionally, the Phase II Project will allow Padre Dam, El Cajon and the County to divert significantly less wastewater to the Metro System and instead transform it into potable water that the entire region can use. The Phase II Project assists the City of San Diego in its goal to reduce flows to the Point Loma WWTP and reduce the solids load discharged at the Point Loma ocean outfall for long-term Clean Water compliance. Lower flows in the Metro System allow the City of San Diego to lower the capacity of its Phase II Pure Water Project, reducing the overall cost of the project which would be shared by the 15 participating agencies to the Metro System. Therefore, implementation of the Phase II Project results in greater impacts to the regional wastewater system by reducing the size and cost of the needed future improvements. All of these benefits are described in greater detail in the following sections.

6.1.1 Elimination of Need for Expanded Water Supplies

Padre Dam's entire drinking water supply consists of water purchased from the SDCWA and is primarily imported water from the SWP and Colorado River, with some local desalinated seawater from the Carlsbad Desalination Project. Helix's water supply is also primarily imported from the SWP and Colorado River via the SDCWA with a small portion of local surface supply. As a result of local policies to reduce reliance on imported water supplies, all water produced by the Phase II Project (8,960 AFY) would be used to offset imported water, rather than offsetting both imported water and desalinated water. Offsetting this source of water would reduce or postpone the need to develop future additional imported water supplies and associated infrastructure. Padre Dam does not have any sources of water besides water purchased from the SDCWA, locally produced recycled water, and minimal groundwater used to supplement the recycled water supply (Brown and Caldwell, 2016). Helix is also fully reliant on SDCWA imported water with the exception of Well 101 and local runoff, which is a very small percent of Helix's supply. Any increase in demand as

Padre Dam and Helix's population grows and the region experiences other factors that increase demand (including but not limited to economic growth, changes in precipitation regime and drought, or natural disaster) would be met by increased imported water purchases, unless the Ray Stoyer WRF is expanded for portable reuse. Advanced treated potable reuse water is a local, drought-proof, sustainable supply, and creates a new source of potable water for Padre Dam and Helix's customers that would reduce, postpone, and potentially eliminate the need for new or expanded non-recycled water supplies for the future.

6.1.2 Reduction of Water Withdrawals from Natural Waterways and Reduction of Demand on Federal Water Supplies

The Phase II Project would alleviate pressure on imported water systems (SWP and the Colorado River) by offsetting Padre Dam and Helix's demands for imported water. Padre Dam's entire potable water supplies and the majority of Helix's water supplies are purchased from the SDCWA. These supplies include desalinated seawater (Carlsbad Desalination Project) and imported water (SWP and Colorado River water). In accordance with SDCWA's 2015 Urban Water Management Plan (UWMP) (SDCWA, 2016), and incorporating the supply mix of SDCWA's wholesaler, Metropolitan, approximately 60% of its water was supplied directly or indirectly from the Colorado River in 2015. Given the cost of imported water and the region's goal to reduce reliance on imported water, any new local water supply that offsets purchases from the SDCWA would offset demands on imported water rather than desalinated seawater.

The SDCWA's 2015 UWMP assumes that near-term water supply projects being developed by its member agencies will be implemented, including the Phase II Project. This application calculates reductions to imported water demands assuming that the planned projects for other agencies in the SDCWA's service area move forward with their projects as incorporated into the SDCWA's 2015 UWMP.

Table 6-1 presents projected percentage of the SDCWA's imported water supplies that are anticipated from the SWP and Colorado River, assuming that the Phase II Project is not implemented. It is anticipated that the Phase II Project would offset both SWP and Colorado River demands, in proportion to their respective contribution to SDCWA's imported supply mix. An average of 6,451 AFY in Federal water and 2,509 AFY in State water is anticipated to be offset by the Phase II Project. Table 6-1 also shows the volume of Federal water anticipated to be offset by the Phase II Project, in 5-year increments based on supply projections in the SDCWA's 2015 UWMP and Metropolitan's 2015 Integrated Water Resources Plan (Metropolitan, 2016), which was used to develop Metropolitan's 2015 UWMP.

By offsetting demands for imported water, diversions from natural watercourses will also be reduced by the Phase II Project. As stated above, the Phase II Project will offset 8,960 AFY of imported water that is currently diverted from the Colorado River and the Sacramento-San Joaquin Bay-Delta (via the SWP), allowing these volumes to remain in the rivers instead.

Table 6-1: Water Demands and Offset

Imported Water Source	2025	2030	2035	2040	Average (2025-2040) ^c
Colorado River (Federal)	77%	73%	71%	70%	72%
SWP (State)	23%	27%	29%	30%	28%
Water Offset by Project					
Total Imported Water Offset (AFY)	8,960	8,960	8,960	8,960	8,960
Federal Water Offset (AFY) ^a	6,899	6,541	6,362	6,272	6,451
State Water Offset (AFY) ^b	2,061	2,419	2,598	2,688	2,509

Notes:

- a) Percentage of imported water from Colorado River multiplied by the total imported water offset.
- b) Percentage of imported water from SWP multiplied by the total imported water offset.
- c) Averaged over the years that will realize full deliveries from the Phase II Project

6.1.3 Reduction of Expanded Wastewater Facilities

The Phase II Project would alleviate pressure on the Metro System and Point Loma WWTP by diverting wastewater flows that would otherwise be sent to the Metro System. Instead, the Phase II Project would treat an additional 9 MGD of wastewater flows at the expanded Ray Stoyer WRF.

Point Loma WWTP is 20 miles away from Padre Dam, the County, and El Cajon service areas and several large lift stations are used for conveyance. Treated wastewater effluent from the Point Loma WWTP consists of advanced primary treatment and is currently discharged to the Pacific Ocean. Point Loma WWTP is the only treatment plant operating in the United States with advanced primary treatment. The Clean Water Act requires at least secondary treated effluent to be disposed to the ocean. The City of San Diego has been operating the Point Loma WWTP under a modified permit from secondary treatment requirements of the federal Clean Water Act since 1995. This modified permit was renewed in 2002, and again in 2010. Through industrial source control, a deep ocean outfall, and comprehensive environmental monitoring, both the U.S. Environmental Protection Agency and the Regional Water Quality Control Board agreed that the Point Loma WWTP fully protects the ocean. However, in 2014, the City of San Diego experienced opposition and had to negotiate a Cooperative Agreement with Coastkeeper, Surfrider, the Coastal Environmental Rights Foundation, and the San Diego Audubon Society for purposes of supporting potable reuse of wastewater and secondary equivalency to prevent challenges with the next waiver application. The City agreed to divert 100 MGD of Metro sewer flows from Point Loma WWTP to reduce total suspended solids and biochemical oxygen demand discharged at the Point Loma ocean outfall to the same or lower levels as would be achieved by implementing secondary treatment at the full plant capacity and production of 83 MGD of purified water for potable reuse by 2035 under the Pure Water Program.

The City of San Diego is planning to implement its Pure Water Program in two phases. Phase I will construct additional wastewater treatment capacity, an AWP facility, and pipelines and pump stations for water and wastewater conveyance to support production of 30 MGD of purified water by 2023. Phase II Pure Water Program is currently planned to construct a new 70 MGD capacity tertiary wastewater treatment facility and AWP facility to generate the remaining 53 MGD of purified water. These wastewater-related improvements are driving the unit wastewater treatment cost up dramatically for the 15 Metro participating agencies.

By reducing the volume of wastewater sent to the Point Loma WWTP, the Phase II Project would reduce the need for future expansion of the wastewater infrastructure under the Pure Water Program. The Phase II Project will allow Padre Dam, El Cajon and the County to divert 9 MGD less to the Metro system, assisting the City of San Diego in its goal to reduce flows to the Point Loma WWTP and the solids load discharged at the Point Loma ocean outfall for long-term Clean Water Act compliance. This allows the City of San Diego to lower the capacity and overall cost of the Phase II Pure Water Project, reducing the cost to be shared by the 15 Metro participating agencies. Therefore, implementation of Phase II Project results in greater impacts to the regional wastewater system by reducing the size and cost of the future improvements needed.

7. ENVIRONMENTAL CONSIDERATION AND POTENTIAL EFFECTS

7.1 Environmental Compliance Overview

A Mitigated Negative Declaration (MND) for the Phase I Project (SCH No. 2015071078), covering the Ray Stoyer WRF expansion and the AWP facility, was completed in July 2015 (Helix Environmental Planning, 2015). Driven by the changes required for using Lake Jennings as the environmental buffer instead of Santee Basin and addition of the future Phase II expansion of the Project, a Program Environmental Impact Report (PEIR) (SCH No. 2015111014) for the facilities improvements for the Program was completed in May 2017. The 2017 PEIR evaluated Phase I and Phase II of the Program. A Tiered MND (SCH No. 2018091029) that builds off the 2017 PEIR was completed in December 2018 (Helix Environmental Planning, 2018). All information provided below is relevant to the previously prepared environmental documents (the 2015 MND, 2017 PEIR, and 2018 MND) which are included in Appendices C, D, and E.

Construction of the various project components would occur both below and above grade. These construction activities could result in air, water, and animal habitat impacts. Additionally, noise from construction may affect animal habitat in the project area, though no critical habitat was found within the project site. The 2018 MND found that the potential for impacts to air and water quality and to habitat from noise were all less than significant either before or with mitigation (Helix Environmental Planning, 2018).

Air quality will be protected by the incorporation of best management practices (BMP) into project construction to reduce dust emissions. Water quality will be protected during construction through the application of BMPs to avoid and minimize impacts to hydrology and biological resources. This will include the creation of a storm water pollution prevention plan (SWPPP) describing BMPs, monitoring, inspection, and recordkeeping. The SWPPP will be implemented by the construction contractor to minimize storm water discharge and reduce erosion. Potential noise impacts to sensitive biological resources will be addressed by avoidance during nesting season, as described below (Padre Dam, 2017). Potential impacts to habitats for sensitive species would be mitigated through avoidance of construction activities where sensitive plant species are located, siting of facilities outside of sensitive habitat as appropriate, the use of trenchless technologies where pipelines must cross sensitive habitats, and implementation of BMPs to minimize impacts where construction must occur in the vicinity of sensitive species habitat (Helix Environmental Planning, 2018).

Construction noise could impact two federally listed species, the Coastal California gnatcatcher and the Least Bell's vireo, identified as having suitable habitat outside, but within 500 feet, of the project area. The potential impact to these species would cease with the end of project construction. These species were identified during a biological survey conducted on June 1, 2015 and a breeding pair of Coastal California gnatcatchers was confirmed as present in the Project Area in 2018 (Helix Environmental Planning, 2015; Helix Environmental Planning, 2018). Least Bell's vireo was identified in 2018 as being within 500 feet of the project disturbance limit (Helix Environmental Planning, 2018). To avoid the potential impact of construction activity noise to the nesting behavior of these species, any construction that is to take place during the breeding season for either species will be contingent on the review of the potential impact area by a certified biologist. If active nests belonging to either sensitive species is found during the survey, then construction will be postponed until the nest is no longer active or until a suitable noise barrier can be constructed. Similarly, if construction activities requiring removal, pruning, or damage of any trees or shrubs will occur during general avian breeding season, a qualified biologist will conduct a pre-construction survey. Construction activities will halt if an active nest is found during the survey until the nest is no longer active or until the end of the breeding season, whichever occurs later (Helix Environmental Planning, 2015; Padre Dam, 2017). A qualified biologist would monitor construction activities and install temporary fencing to protect sensitive species and habitat as appropriate (Helix Environmental Planning, 2018).

Four special-status plant species were identified in the Project area around Lake Jennings: Ashy spike-moss, San Diego County viguiera, delicate clarkia, and San Diego goldenstar. The Project would have less than significant impacts on ashy spike-moss and San Diego County viguiera. Avoidance would be employed to protect delicate clarkia and San Diego goldenstar, where construction activities would be prohibited in areas delineated on construction plans as supporting these species (Helix Environmental Planning, 2018).

7.1.1 Water Supply and Water Quality

There are currently three surface water bodies that are part of the Ray Stoyer WRF's and AWP facility water delivery and discharge system. These include:

1. Lake Jennings – Imported water is stored at Lake Jennings prior to treatment and use as a potable supply.
2. Santee Lakes – A quantity of the recycled water produced at the Ray Stoyer WRF is conveyed to the Santee Lakes and is eventually discharged to Sycamore Creek.
3. Sycamore Creek – Recycled water discharged from Santee Lakes enters Sycamore Creek and is controlled by a NPDES permit.

Of these three surface water bodies, Sycamore Creek and Lake Jennings are the only potential “waters of the United States” within the Phase I and II Project area. Santee Lakes are not waters of the United States because they are artificial, constructed lakes and part of Padre Dam’s wastewater treatment and recycling system.

The Phase I and II Project has been designed to avoid federally protected wetlands and other potential jurisdictional features to the extent feasible. However, there would be permanent loss of habitat to 0.6 acres of freshwater marsh at Lake Jennings from construction of the new inlet, which would install a cascading water feature to slow water velocity entering the reservoir. This feature would be constructed in Diegan coastal sage scrub and freshwater marsh that could not be reasonably avoided. Padre Dam would secure all the appropriate permits and implement compensatory mitigation consistent with U.S. Army Corps of Engineers, Regional Water Quality Control Board (RWQCB), and California Department of Fish and Wildlife requirements. Compensatory mitigation would include a minimum of 1:1 ratio of new, restored, or permanently preserved habitat to loss. Diegan coastal sage scrub would be compensated at a ratio of 2:1 and Southern willow scrub at a ratio of 3:1 (Helix Environmental Planning, 2018).

Lake Jennings is owned, operated, and maintained by Helix and is used primarily to store imported water. Imported water storage accounts for 95% of the 9,790 AF of total storage. Local runoff accounts for the remainder. Substituting recycled water for imported water will impact the total volume of imported water, but it will not change the volume of imported water stored in the Lake. Advanced treated water will meet or exceed the existing quality of the SDCWA untreated imported purchased water. As such, overall water quality at Lake Jennings is anticipated to remain unchanged as advanced treated water is delivered for SWA. No adverse water quality impacts to Lake Jennings are anticipated as a result of operation of the Phase II Project, though additional studies are being completed to determine the potential impact of improved water quality in Lake Jennings from the Project on the local ecosystem and connected water bodies. There is potential for construction dust or construction-related erosion to contribute to temporary water quality impacts to local water bodies. Implementation of dust and erosion control measures and a Stormwater Pollution Prevention Plan would reduce these potential impacts to less than significant (Helix Environmental Planning, 2018).

The Phase II Project would not change the existing augmentation of Santee Lakes (which are not “waters of the United States”) with recycled water and it is therefore not expected to impact either the Santee Lakes or Sycamore Creek.

7.1.2 Public Outreach

Padre Dam has an award-winning outreach and education program that features a combination of innovative and creative outreach tactics, including a comprehensive tour program at its AWP Demonstration Facility being operated

since 2015. In Fiscal Year 2017, 49 tours were provided, serving 679 K-12 students, 148 scouts, and 94 members of the public, for a total of 1,188 people who attended tours. Fiscal Year 2018 saw 51 tours given, reaching 935 K-12 students and scouts, and 353 members of the public, for a total of 1,253 people reached. In addition, the East County AWP Program maintains a website (<http://eastcountyawp.com/>) with videos, presentations, newsletters, and educational materials. These public outreach efforts will continue throughout project implementation.

Padre Dam's outreach and education program serves its customers, builds support and creates goodwill for the District and the East County AWP Program. Public education efforts have not only been a learning opportunity, but a pivotal opinion/perception changing experience. Communication tactics from video, tours and beer brewing partnerships have instilled confidence in the treatment process, highlighted the professionalism and competence of Padre Dam and reinforced the program goals - all while building program support. The demonstrated increase in public acceptance resulting from the educational program underscores the importance of this vital water resource.

7.1.3 Historic Sites

The project-level environmental documentation completed for the 2015 MND and 2018 MND included project-level cultural and historical records searches. The 2015 MND found no historical resources within the Phase I and II Project area (Helix Environmental Planning, 2015). The 2018 MND found three historical resources within the area of potential effect for the Phase I and II Project (Helix Environmental Planning, 2018), though only one of these was recommended as eligible for listing in the National Register of Historical Places (NRHP), the San Diego Flume, near the proposed pipeline. The San Diego Flume was constructed between 1886 and 1889 and delivered water from Cuyamaca Dam to the La Mesa Reservoir until 1936. However, Phase II would not impact this since the pipeline will be constructed during Phase I.

There are no known archeological sites in the WRF and AWP sites for the Project. A records search was conducted at the South Coastal Information Center on May 19, 2015 and a Sacred Lands File (SLF) search was conducted on May 28, 2015. The results did not indicate the presence of any archeological or Native American cultural resources. An on-foot survey conducted June 1, 2015 by a Native American monitor also found no presence of cultural resources. During the construction activities a qualified archeologist will be retained and present to monitor initial ground disturbance of the project. The archaeologist will have the authority to temporarily halt or redirect ground-disturbing activity if necessary (Padre Dam, 2015).

There is potential for any Project activities in undeveloped areas to encounter previously unrecorded archaeological resources. The cultural resources report for the 2017 PEIR included a review of ASM Affiliate's known records but did not include formal records search due to the size of the program area. ASM's analysis of archaeological resources indicated some components of the Phase I and II Project intersect a known cultural resources site. These components include the conveyance pipelines from the AWP facility to Santee Basin that are no longer part of either the Phase I or II project, as well as components of future phases not included in the Phase I and II Project (Padre Dam, 2017).

A project-level Cultural Resources Assessment in 2018 found five archaeological resources within the vicinity of the Phase I and II Project. Of these sites, two were located within the area of potential effect for the Project, though neither was relocated during surveys for the Cultural Resources Assessment. These sites are assumed to still exist and are both prehistoric habitation sites (CA-SDI-10148 [P-37-010148] and CA-SDI-13815 [P-37-013812]). A 2018 SLF search and subsequent Native American consultation indicates sensitivity for cultural resources in the Phase I and II Project area. Construction monitoring and recovery of cultural resources would be implemented to reduce potential impacts to less than significant.

8. LEGAL AND INSTITUTIONAL REQUIREMENTS

8.1 Legal Requirements

Padre Dam has the rights to the recycled water that is produced from the Ray Stoyer WRF. Currently, most of the wastewater treated by Padre Dam's WRF is being delivered to its recycled water customers for irrigation, recreational water uses at Santee Lakes and other non-potable uses such as dust control; a small portion of the effluent is discharged to Sycamore Creek as overflow from Santee Lakes in quantities that vary seasonally with most flows occurring in winter when recycled water demand is low. Per Section 1210 of the Water Code, as the owner of the treatment plant, Padre Dam has exclusive rights to the treated wastewater from the Ray Stoyer WRF. With regards to the WRF effluent, Section 1211 requires the owner of the treatment plant to seek approval from the Division of Water Rights before making a change in the point of discharge, place of use, or purpose of use of treated water if the change would result in decreasing the flow in any portion of a watercourse, which is defined to exclude the ocean or a bay but includes surface water or subterranean streams flowing in known and definite channels. Padre Dam has initiated conversations with the SWRCB Division of Water Rights. No water rights issue is anticipated to occur with respect to the current discharge to Sycamore Creek since the Phase II Project would not result in a change in the point of discharge or a significant change in the amount of discharge to Sycamore Creek.

Padre Dam, El Cajon, and the County have rights to wastewater that is generated within their sewer service boundaries, and they have the rights to the recycled water and purified water that could be produced from the Ray Stoyer WRF and AWP facility. Under the Phase II Project, the wastewater collection and treatment system of the East County region would be modified to allow collection, treatment and recycling of additional wastewater, which would result in decreased flows to the Metro System. Currently, wastewater from the East County region that is not being treated and recycled at Padre Dam's WRF is conveyed via the EMGPS to the Metro System and finally treated at the Point Loma WWTP and disposed into the Pacific Ocean through the Point Loma Ocean Outfall. Therefore, while the Phase II Project would result in a reduction in flows to the Metro System, it would not result in any decrease of flow in a "watercourse" as defined by Section 1211 of the Water Code, as ocean discharges are exempt from the 1211 permitting process. Therefore, no water rights issue is anticipated to occur with respect to the reduction in wastewater to the Metro System.

8.2 Institutional Requirements

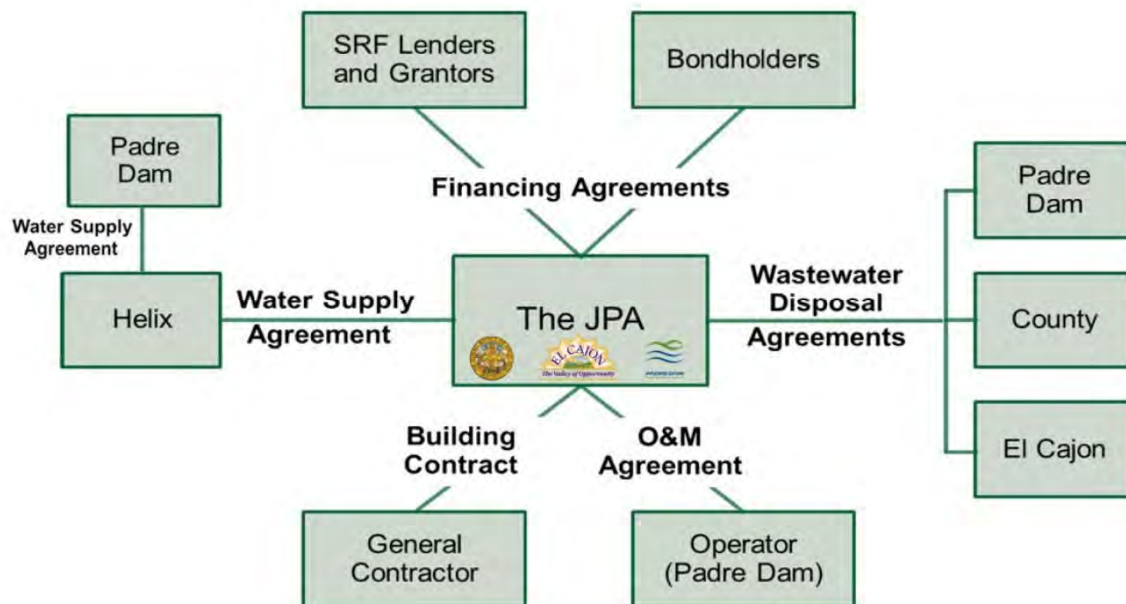
Legislation that would impact the Phase II Project is not anticipated since the California State Water Resource Control Board, Division of Drinking Water (DDW) regulations for SWA using recycled water (SBDDW-16-02) were adopted on March 6, 2018 (SWA Regulations). The SWA will first be implemented during the Phase I Project and any legal requirements and approvals will be met before implementation of the Phase II Project. Hydrodynamic modeling completed by Padre Dam determined that Lake Jennings has sufficient capacity to provide the required residence time and dilution criteria set forth in the State's SWA Regulations for the entire volume of water recycled by the expanded Ray Stoyer WRF in Phase I, as well as the additional purified water flow planned for Phase II.

The EMGPS currently conveys wastewater flows from East County to the Metro System and is owned and operated by the City of San Diego. The Phase II Project will upgrade the facility to allow for 9 MGD of East County's sewer flow to be conveyed the Ray Stoyer WRF. Padre Dam, the County, and El Cajon have been in discussions with the City of San Diego for taking ownership of the EMGPS since November 2018. The discussions have been productive, and Padre Dam expects to finalize the discussions and receive ownership of the EMGPS in the next year.

The ECAWP Program, including the Phase I Project and Phase II Project, is a collaborative partnership between Padre Dam, Helix, the County, and El Cajon. The members of the collaborative partnership will establish a Joint Powers Agreement (JPA) that will provide the governance framework and address the Project responsibilities and risks. The JPA will be the governing body for the Phase II Project and will be comprised of the three wastewater agencies (Padre Dam, the County, and El Cajon; each of these agencies will have an agreement with the JPA for wastewater treatment

and disposal). Helix will have an agreement with the JPA to purchase the advanced purified product water. Helix will also have an agreement with Padre Dam to sell them water after being treated. The JPA will hold the contracts for financing, design, construction, and operation and maintenance of the Phase II Project. Padre Dam will operate and maintain the WRF, AWP facility and conveyance facilities through an agreement with the JPA. The JPA is expected to be formed in November 2019. See Figure 8-1 for the organizational structure of the Project.

Figure 8-1: JPA Organizational Structure



8.3 Permitting Requirements

The permitting requirements for the Phase II Project are anticipated to be similar to the Phase I Project. The permitting process would be accelerated since much of the Phase II Project would be expanding on permits previously approved for Phase I. State permits required for Phase II include an amended Water Supply Permit from DDW for Helix for the use of the Phase II flows as a source of supply, along with a General Construction Permit, a revised NPDES permit for the discharge to Lake Jennings, and revised Waste Discharge Requirements for any additional recycled water discharges for the expanded Ray Stoyer WRF from the RWQCB. The Program has received conceptual approval from the DDW that the requirements set forth in the SWA Regulations would be met at Lake Jennings with the implementation of the Program. A revision to the NPDES Permit for the Phase I discharge to Lake Jennings will be required for the additional flow for the Phase II Project. The RWQCB permit will also address the use of sludge for the biosolids digestion facility in Phase I. The Phase II Project will also need the expanded solids handling covered under a RWQCB permit. A summary of state and local regulatory permits and approvals is summarized in Table 8-1 below.

Additional approvals required for the Phase II Project include California Environmental Quality Act (CEQA)-Plus and a Finding of No Significant Impact (FONSI). Padre Dam applied for CWSRF financing for the Phase I Project which required compliance with CEQA-Plus (CEQA in addition to federal crosscutters such as the Clean Air Act, National Historic Preservation Act, Federal Endangered Species Act, and others). Padre Dam is in the process of coordinating with SWRCB to obtain CEQA-Plus approval; it is anticipated before December 2019. Padre Dam secured grant funding for the Phase I Project through Reclamation's Title XVI grant program. As a result, Padre Dam has been coordinating with Doug McPherson at Reclamation regarding the FONSI approval process. During his consultation with SWRCB staff, both parties decided that the State would take the lead on the Endangered Species Act compliance and the State

Historic Preservation Office (SHPO) consultation under Section 106 of the National Historic Preservation Act (as the State is conducting consultation as part of the CEQA-Plus approval process). FONSI approval for Phase I is anticipated to be issued following SWRCB's CEQA-Plus approval toward the end of 2019. Through discussions regarding the interest in pursuit of Title XVI/WIIN funding for the Phase II Project, Mr. McPherson recommended Phase II be added to Reclamation's FONSI.

Table 8-1: Permitting and Approvals

Agency / Department	Permit / Approval
Federal Agencies	
United States Bureau of Reclamation	FONSI
State Agencies	
State Water Resources Control Board (SWRCB), Regional Water Quality Control Board (RWQCB)	National Pollutant Discharge Elimination System (NPDES) General Construction Activity Storm Water Permit SWRCB Order No. 2009-0009-DWQ (as amended by 2010-0014-DWQ and 2012-0006-DWQ) Waste Discharge Requirements (Water Code 13000 et seq.) and/or National Pollutant Discharge Elimination System (NPDES) Permit for existing discharges and the expanded Phase II discharge to Lake Jennings NPDES Industrial Permit SWRCB Order No. 2014-0057-DWQ NPDES Groundwater Permit RWQCB Order No. R9-2015-0013 401 Certification (CWA, 33 USC 1341, if the project requires U.S. Army Corps of Engineers [USACE] 404 Permit)
SWRCB Division of Drinking Water	Amended domestic water supply permit for Helix Water District to use the Phase II AWP facility flows as a source of supply in Lake Jennings (SWA using recycled water) (SBDDW-16-02)
California Department of Fish and Wildlife (CDFW)	California Endangered Species Act (California Public Resources Code Section 30600) California Fish and Game Code Section 1602 Notification of Lake or Streambed Alteration
State Historic Preservation Office (SHPO)	Section 106 of the National Historic Preservation Act (Helix Environmental Planning, 2018)
California State Historic Preservation Office	Review under Section 106 Consultation, National Historic Preservation Act and California Office of Historic Preservation (California Public Resources Code Sections 5024, 5024.5, 21083.2 – 21084.1)
Local Agencies	
City of Santee	Encroachment Permit
County of San Diego	Encroachment Permit JPA Agreement with Padre Dam and El Cajon “No rise” certification for work performed within mapped floodways (San Diego County Flood Damage Prevention Ordinance Section 811.506) Unified Program Facility Permit Certificate of Occupancy
Helix Water District	Water Purchase Agreement between JPA and Helix Water District Sub-Water Purchase Agreement between JPA and Helix Water District
City of El Cajon	JPA Agreement with Padre Dam and County
City of San Diego	Encroachment Permit Agreement for resolution of East Mission Gorge (EMG) Pump Station transfer

Source: Helix, 2018

8.4 Wastewater Discharge Requirements

Padre Dam is responsible for current and projected wastewater discharge requirements from Ray Stoyer WRF. As mentioned in Section 8.1, a small portion of the effluent is discharged to Sycamore Creek as overflow. No water rights issue is anticipated to occur with respect to the current discharge to Sycamore Creek since the proposed Phase II Project would not result in a change in the point of discharge or a significant change in the amount of discharge to Sycamore Creek. The Phase II Project would expand the AWP facility to handle all wastewater discharged from the

Ray Stoyer WRF and therefore, no additional discharges to Sycamore Creek are anticipated. The AWP facility brine and the centrate from the solids handling facility will be conveyed to the Metro System (Kennedy/Jenks Consultants, 2015). A portion of wet weather flows will also be conveyed to the Metro System where it would be treated and discharged at the Point Loma WWTP.

8.5 Unresolved Issues

There are no unresolved issues associated with implementing the Phase II Project.

9. FINANCIAL CAPABILITY OF SPONSOR

9.1 Project Schedule

Planning, permitting, and environmental documentation for the Phase II Project has begun, in conjunction with the Phase I Project currently being implemented by Padre Dam. CEQA-Plus approval and a FONSI from Reclamation are anticipated before the end of calendar year 2019. All necessary permits will be acquired prior to construction and operation, as necessary. Design and construction of the Phase II Project is planned to be implemented using progressive Design-Build construction method in three packages: WRF, AWP facility and solid handling facilities expansion (Package 1); the EMGFM and residuals bypass conveyance system (Package 2); and the EMGPS improvements (Package 3). The Request for Qualifications (RFQ) process for Package 1 is anticipated to begin in November 2019 and take four months, followed by the Request for Proposal (RFP) process which is anticipated to begin in April 2020 and take five months; design is anticipated to begin in September 2020 and last for 22 months; construction is anticipated to begin in March 2022 and last 30 months. The RFQ process for Package 2 is anticipated to begin in March 2020 and last 3 months, followed by the RFP process which is anticipated to begin in July 2020 and last for five months; design is anticipated to begin in December 2020 and last for 17 months; construction is anticipated to begin in April 2022 and last 22 months. The RFQ for Package 3 is anticipated to be released in May 2020. Following the RFP process, the RFP process will begin in September 2020 and take five months; design is anticipated to begin in February 2021 and last for 14 months; construction is anticipated to begin in March 2022 and last 17 months. Construction of the three packages would be complete in August 2024 and testing and start-up would follow. Thus, potable reuse deliveries from Phase II would begin in 2025. Table 9-1 below shows the anticipated Project schedule.

Table 9-1: Phase II Project Schedule

Date	Package 1: WRF-AWP-Solids			Package 2: EMG FM-Bypass			Package 3: EMGPS Improvements			Date
	Bid Phase	Design	Constr.	Bid Phase	Design	Constr.	Bid Phase	Design	Constr.	
Nov-19										Nov-19
Dec-19										Dec-19
Jan-20	RFQ									Jan-20
Feb-20										Feb-20
Mar-20				RFQ						Mar-20
Apr-20										Apr-20
May-20							RFQ			May-20
Jun-20	RFP									Jun-20
Jul-20										Jul-20
Aug-20										Aug-20
Sep-20	NTP			RFP						Sep-20
Oct-20										Oct-20
Nov-20							RFP			Nov-20
Dec-20		30% Design		NTP						Dec-20
Jan-21							NTP	30% Design		Jan-21
Feb-21					30% Design					Feb-21
Mar-21										Mar-21
Apr-21										Apr-21
May-21										May-21
Jun-21					60% Design					Jun-21
Jul-21		60% Design						60% Design		Jul-21
...										...
Oct-21										Oct-21
Nov-21		Final GMP			Final GMP			Final GMP		Nov-21
Dec-21										Dec-21
Jan-22	GMP			GMP	100% Design		GMP	100% Design		Jan-22
Feb-22										Feb-22
Mar-22		100% Design								Mar-22
Apr-22										Apr-22
May-22										May-22
Jun-22										Jun-22
Jul-22										Jul-22
...										...
Dec-22										Dec-22
Jan-23										Jan-23
Feb-23										Feb-23
Mar-23						EMG FM			EMGPS	Mar-23
Apr-23						Bypass				Apr-23
...										...
Jul-23			WRF							Jul-23
Aug-23			AWP						Test/Start Up	Aug-23
Sep-23										Sep-23
Oct-23										Oct-23
Nov-23										Nov-23
Dec-23										Dec-23
Jan-24										Jan-24
Feb-24						Test/Start Up				Feb-24
Mar-24										Mar-24
Apr-24										Apr-24
May-24										May-24
Jun-24										Jun-24
Jul-24										Jul-24
Aug-24										Aug-24
Sep-24			Test/Start Up							Sep-24
...										...
Mar-25			Test/Start Up							Mar-25

9.2 Willingness to Pay for Project

The ECAWP Program JPA and Padre Dam, as the project sponsor, are willing to pay for their share of capital costs (minimum 75% funding match), along with operation, maintenance, and replacement costs. Padre Dam intends to pursue grants and low-interest loans to reduce the cost burden that would be passed on to its customers. In addition, Padre Dam and the Phase II Project partners have demonstrated a willingness and ability to pay for their share of capital costs through a soon to be formed JPA, as previously discussed in Section 8.2, supported by long-term wastewater treatment and product water supply contracts (together "Offtake Agreements") with Padre Dam, Helix, the County, and El Cajon.

9.3 Funding Plan for Construction, Operation and Maintenance

There are multiple funding options for construction of the Phase II Project available to Padre Dam and the JPA. These include a Title XVI/WIIN grant, a CWSRF loan, a WIFIA loan, and bonds. The O&M costs would be paid for with cash reserves and operating revenues. Potential funding sources for construction of the Phase II Project are discussed in detail below.

- **Title XVI/WIIN Grant.** Padre Dam has successfully secured Title XVI grant funding from Reclamation for the Phase I Project. It plans to pursue Title XVI/WIIN grant funding from Reclamation pending eligibility through a determination of feasibility for the Phase II Project. The grant program awards \$20 million or 25% of total project costs, whichever is less. As described above, the Phase II Project cost is \$273.5 million, 25% of which is \$68.4 million, greater than the \$20 million cap. Thus, the Phase II Project would be eligible to receive and would apply for \$20 million. A minimum 75% funding match is required.
- **CWSRF Loan.** The CWSRF Program administered by the State Water Resources Control Board provides low-interest loans and grants to wastewater and recycled water projects. Padre Dam plans to pursue a low-interest loan for the Phase II Project. CWSRF has no funding match requirement nor are there minimums or maximums for the loan. CWSRF loans qualify as matching funds for Title XVI/WIIN grants. Padre Dam plans to apply for financing in the amount of \$273.5 million. Any other grant or loan funding received would reduce the total financing through CWSRF.
- **WIFIA Loan.** WIFIA, a low-interest loan program that can fund up to 49% of eligible project costs, is administered by U.S. Environmental Protection Agency (USEPA). Padre Dam submitted a WIFIA application (referred to as a Letter of Interest) for the entire Program, including the Phase II Project, in July 2019. A total of \$311 million was requested. Padre Dam expects to hear from USEPA in October 2019 regarding next steps and preliminary approval.
- **Bonds.** Tax-exempt municipal bonds are expected to be issued by the JPA to provide the balance of funding not supplied by other sources of funds.

10. RESEARCH NEEDS

There are no research needs for the Phase II Project. Treatment and distribution system technologies will use conventional system components and proven technologies.

11. REFERENCES

- Bondy B, Dr. Huntley D. "Groundwater Management Planning Study Santee – El Monte Basin Phase III Report." January 2001.
- Brown and Caldwell. "Padre Dam Municipal Water District 2015 Urban Water Management Plan." June 15, 2016.
- Bureau of Reclamation. "Reclamation Manual Directives and Standards (WTR 11-01) for the Title XVI Water Reclamation and Reuse Program Feasibility Study Review Process." February 8, 2017.
- Daniel B. Stephens & Associates, Inc. "Pre-Read Summary for Santee Basin GRRP Modeling. April 16, 2015 IAP Workshop." 2015.
- Carollo Engineers. "Padre Dam Municipal Water District 2015 Comprehensive Facilities Master Plan." October 2015.
- Helix Environmental Planning, Inc. "Ray Stoyer Water Recycling Facility Phase I Expansion Project, Initial Study and Mitigated Negative Declaration, SCH No. 2015071078." July 2015.
- Helix Environmental Planning, Inc. "East County Advanced Water Purification Project Final Initial Study/Mitigated Negative Declaration, SCH No. 2018091029." December 2018.
- Helix Water District. "2010 Urban Water Management Plan." July 2011.
- Helix Water District. "2015 Urban Water Management Plan." July 2016.
- Kennedy/Jenks Consultants. "East County Advanced Water Purification Program – Planning Study." January 2016.
- Kennedy/Jenks Consultants. "Padre Dam Water Recycling Facility Phase 1 Expansion Facilities Planning Report." October 2015.
- Metropolitan Water District of Southern California. "Integrated Water Resources Plan 2015 Update." January 2016.
- Padre Dam Municipal Water District. "2010 Urban Water Management Plan." 2010.
- Padre Dam Municipal Water District. "Comprehensive Facilities Master Plan, Final Program Environmental Impact Report, SCH No. 2015111014." May 2017.
- Padre Dam Municipal Water District. "2018 East County AWP Program Financial Proforma Model". 2018.
- Padre Dam Municipal Water District. "WaterSMART: Title XVI Congressionally Authorized Water Reclamation and Reuse Projects, Padre Dam Water Recycling Facilities - Phase 1 Expansion." April 2019.
- San Diego County Water Authority. "Final 2015 Urban Water Management Plan." June 2016.
- San Diego County Water Authority. "2015 Long-Range Financing Plan." 2015.

APPENDIX A: EAST COUNTY ADVANCED WATER PURIFICATION PROGRAM PLANNING STUDY (2016)

APPENDIX B: COST ESTIMATES

**APPENDIX C: RAY STOYER WATER RECYCLING FACILITY – PHASE I EXPANSION
PROJECT: INITIAL STUDY AND MITIGATED NEGATIVE
DECLARATION (JULY 2015)**

APPENDIX D: FINAL PROGRAM ENVIRONMENTAL IMPACT REPORT (MAY 2017)

**APPENDIX E: EAST COUNTY ADVANCED WATER PURIFICATION PROJECT – FINAL
INITIAL STUDY/MITIGATED NEGATIVE DECLARATION
(DECEMBER 2018)**



woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

EAST COUNTY ADVANCED WATER PURIFICATION JOINT POWERS AUTHORITY
PROFESSIONAL SERVICES AGREEMENT

This Agreement is made and entered into as of **February 20, 2020**, by and between the **EAST COUNTY ADVANCED WATER PURIFICATION JOINT POWERS AUTHORITY** (hereinafter referred to as the "JPA"), organized and existing under the Joint Exercise of Powers Act, Government Code § 6500 et seq. and **WOODARD & CURRAN, INC.**, a Maine Corporation (hereinafter referred to as "Consultant").

RECITALS

A. The JPA is a California joint powers agency established by a Joint Exercise of Powers Agreement ("JPA Agreement") entered into by Padre Dam Municipal Water District, the City of El Cajon and the San Diego County Sanitation District for the purpose of financing, designing, constructing and operating the East County Advanced Water Purification Project (hereinafter referred to as "the Project").

B. Pursuant to the terms of the JPA Agreement, Padre Dam Municipal Water District, (hereinafter referred to as "Interim Administrator") serves as the JPA's Interim Administrator for the purpose of performing all services reasonably necessary for the management and administration of the JPA.

C. The JPA is a public entity of the State of California and is in need of professional services for the Project.

D. Consultant is duly licensed and has the necessary qualifications to provide such services.

E. The parties desire by this Agreement to establish the terms for JPA to retain Consultant to provide the services described herein.

AGREEMENT

NOW, THEREFORE, IT IS AGREED AS FOLLOWS:

1. Services.

Consultant shall provide the JPA with the services described in the Scope of Services attached hereto as Exhibit "A."

2. Term of Agreement.

The term of this Agreement shall be from February 20, 2020 through June 30, 2025 ("Term"). The Scope of Services and fee shall be authorized separately by the JPA for each Fiscal Year during the Term. The Scope of Services and fee initially authorized with this Agreement are those services identified in Exhibit "A." Future changes to the Scope of Services and fee shall be added by one or more amendments to this Agreement. The Scope of Services shall be performed in accordance with the schedule set forth in Exhibit "A".

3. Compensation.

a. Subject to paragraph 2(b) below, the JPA shall pay for such services in accordance with the Schedule of Charges set forth in Exhibit "B." Payments may be made by the Interim Administrator on behalf of the JPA.

b. In no event shall the total amount paid for services rendered by Consultant under this Agreement exceed the sum of **\$164,587.00**. This amount is to cover all printing and related costs, and the JPA will not pay any additional fees for printing expenses. Periodic payments shall be made within 30 days of receipt of an invoice which includes a detailed description of the work performed. Payments to Consultant for work performed will be made on a monthly billing basis.

4. Additional Work.

If changes in the work seem merited by Consultant or the JPA, and informal consultations with the other party indicate that a change is warranted, it shall be processed in the following manner: a letter outlining the changes shall be forwarded to the JPA by Consultant with a statement of estimated changes in fee or time schedule. An amendment to this Agreement shall be prepared by the JPA and executed by both parties before performance of such services, or the JPA will not be required to pay for the changes in the scope of work. Such amendment shall not render ineffective or invalidate unaffected portions of this Agreement.

5. Maintenance of Records.

Books, documents, papers, accounting records, and other evidence pertaining to costs incurred shall be maintained by Consultant and made available at all reasonable times during the contract period and for four (4) years from the date of final payment under the contract for inspection by JPA.

6. Time of Performance.

Consultant shall perform its services in a prompt and timely manner and shall commence performance upon receipt of written notice from the JPA to proceed ("Notice to Proceed"). Consultant shall complete the services required hereunder within the time period detailed in Exhibit "A." The Notice to Proceed shall set forth the date of commencement of work.

7. Delays in Performance.

a. Neither JPA nor Consultant shall be considered in default of this Agreement for delays in performance caused by circumstances beyond the reasonable control of the non-performing party. For purposes of this Agreement, such circumstances include but are not limited to, abnormal weather conditions; floods; earthquakes; fire; epidemics; war; riots and other civil disturbances; strikes, lockouts, work slowdowns, and other labor disturbances; sabotage or judicial restraint.

b. Should such circumstances occur, the non-performing party shall, within a reasonable time of being prevented from performing, give written notice to the other party describing the

circumstances preventing continued performance and the efforts being made to resume performance of this Agreement.

8. Compliance with Law.

a. Consultant shall comply with all applicable laws, ordinances, codes and regulations of the federal, state and local government, including Cal/OSHA requirements.

b. If required, Consultant shall assist the JPA, as requested, in obtaining and maintaining all permits required of Consultant by federal, state and local regulatory agencies.

c. If applicable, Consultant is responsible for all costs of clean up and/ or removal of hazardous and toxic substances spilled as a result of his or her services or operations performed under this Agreement.

9. Standard of Care.

Consultant's services will be performed in accordance with generally accepted professional practices and principles and in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions.

10. Assignment and Subconsultant.

Consultant shall not assign, sublet, or transfer this Agreement or any rights under or interest in this Agreement without the written consent of the JPA, which may be withheld for any reason. Any attempt to so assign or so transfer without such consent shall be void and without legal effect and shall constitute grounds for termination. Subcontracts, if any, shall contain a provision making them subject to all provisions stipulated in this Agreement. Nothing contained herein shall prevent Consultant from employing independent associates, and subconsultants as Consultant may deem appropriate to assist in the performance of services hereunder.

11. Independent Consultant.

Consultant is retained as an independent contractor and is not an employee of JPA. No employee or agent of Consultant shall become an employee of JPA. The work to be performed shall be in accordance with the work described in this Agreement, subject to such directions and amendments from JPA as herein provided.

12. Insurance

a. Commercial General Liability

(i) The Consultant shall take out and maintain, during the performance of all work under this Agreement, in amounts not less than specified herein, Commercial General Liability Insurance, in a form and with insurance companies acceptable to the JPA.

(ii) Coverage for Commercial General Liability insurance shall be at least as broad as the following:

(1) Insurance Services Office Commercial General Liability coverage (Occurrence Form CG 00 01) or exact equivalent.

(iii) Commercial General Liability Insurance must include coverage for the following:

- (1) Bodily Injury and Property Damage
- (2) Personal Injury/Advertising Injury
- (3) Premises/Operations Liability
- (4) Products/Completed Operations Liability
- (5) Aggregate Limits that Apply per Project
- (6) Explosion, Collapse and Underground (UCX) exclusion deleted
- (7) Contractual Liability with respect to this Contract
- (8) Broad Form Property Damage
- (9) Independent Consultants Coverage

(iv) The policy shall contain no endorsements or provisions limiting coverage for (1) contractual liability; (2) cross liability exclusion for claims or suits by one insured against another; or (3) contain any other exclusion contrary to the Agreement.

(v) The policy shall give the JPA, its member agencies, Board, each member of the Board, officers, employees, agents and designated volunteers additional insured status using ISO endorsement forms CG 20 10 10 01 and 20 37 10 01, or endorsements providing the exact same coverage.

(vi) The general liability program may utilize either deductibles or provide coverage excess of a self-insured retention, subject to written approval by the JPA, and provided that such deductibles shall not apply to the JPA as an additional insured.

b. Automobile Liability

(i) At all times during the performance of the work under this Agreement, the Consultant shall maintain Automobile Liability Insurance for bodily injury and property damage including coverage for owned, non-owned and hired vehicles, in a form and with insurance companies acceptable to the JPA.

(ii) Coverage for automobile liability insurance shall be at least as broad as Insurance Services Office Form Number CA 0001 covering automobile liability (Coverage Symbol 1, any auto).

(iii) Subject to written approval by the JPA, the automobile liability program may utilize deductibles, provided that such deductibles shall not apply to the JPA as an additional insured, but not a self-insured retention.

c. Workers' Compensation/Employer's Liability

(i) Consultant certifies that he/she is aware of the provisions of Section 3700 of the California Labor Code which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and he/she will comply with such provisions before commencing work under this Agreement.

(ii) To the extent Consultant has employees at any time during the term of this Agreement, at all times during the performance of the work under this Agreement, the Consultant shall maintain full compensation insurance for all persons employed directly by him/her to carry out the work contemplated under this Agreement, all in accordance with the "Workers' Compensation and Insurance Act," Division IV of the Labor Code of the State of California and any acts amendatory thereof, and Employer's Liability Coverage in amounts indicated herein. Consultant shall require all subconsultants to obtain and maintain, for the period required by this Agreement, workers' compensation coverage of the same type and limits as specified in this section.

d. Professional Liability (Errors and Omissions)

At all times during the performance of the work under this Agreement the Consultant shall maintain professional liability or Errors and Omissions insurance appropriate to its profession, in a form and with insurance companies acceptable to the JPA and in an amount indicated herein. This insurance shall be endorsed to include contractual liability applicable to this Agreement and shall be written on a policy form coverage specifically designed to protect against acts, errors or omissions of the Consultant. "Covered Professional Services" as designated in the policy must specifically include work performed under this Agreement. The policy must "pay on behalf of" the insured and must include a provision establishing the insurer's duty to defend.

e. Minimum Policy Limits Required

(i) The following insurance limits are required for the Agreement:

Combined Single Limit

Commercial General Liability	\$2,000,000 per occurrence/ \$4,000,000 aggregate for bodily injury, personal injury, and property damage
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Automobile Liability	\$1,000,000 per occurrence for bodily injury and property damage
Employer's Liability	\$1,000,000 per occurrence
Professional Liability	\$1,000,000 per claim and aggregate (errors and omissions)

(ii) Defense costs shall be payable in addition to the limits, except for Professional Liability.

(iii) Requirements of specific coverage or limits contained in this section are not intended as a limitation on coverage, limits, or other requirement, or a waiver of any coverage normally provided by any insurance.

f. Evidence Required

Prior to execution of the Agreement, the Consultant shall file with the JPA evidence of insurance from an insurer or insurers certifying to the coverage of all insurance required herein. Such evidence shall include original copies of the ISO CG 00 01 (or insurer's equivalent) signed by the insurer's representative and Certificate of Insurance (Acord Form 25-S or equivalent), together with required endorsements. All evidence of insurance shall be signed by a properly authorized officer, agent, or qualified representative of the insurer and shall certify the names of the insured, any additional insureds, where appropriate, the type and amount of the insurance, the location and operations to which the insurance applies, and the expiration date of such insurance.

g. Policy Provisions Required

(i) Consultant shall provide the JPA at least thirty (30) days prior written notice of cancellation of any policy required by this Agreement, except that the Consultant shall provide at least ten (10) days prior written notice of cancellation of any such policy due to non-payment of premium. If any of the required coverage is cancelled or expires during the term of this Agreement, the Consultant shall deliver renewal certificate(s) including the General Liability Additional Insured Endorsement to the JPA at least ten (10) days prior to the effective date of cancellation or expiration.

(ii) The Commercial General Liability Policy and Automobile Policy shall each contain a provision stating that Consultant's policy is primary insurance and that any insurance, self-insurance or other coverage maintained by the JPA or any named insureds shall not be called upon to contribute to any loss.

(iii) The retroactive date (if any) of each policy is to be no later than the effective date of this Agreement. Consultant shall maintain such coverage continuously for a period of at least three years after the completion of the work under this Agreement. Consultant shall purchase a one (1) year extended reporting period A) if the retroactive date is advanced past the effective date of this Agreement;

B) if the policy is cancelled or not renewed; or C) if the policy is replaced by another claims-made policy with a retroactive date subsequent to the effective date of this Agreement.

(iv) All required insurance coverages shall contain or be endorsed to waive subrogation against the JPA, its member agencies, officials, officers, employees, agents, and volunteers or shall specifically allow Consultant or others providing insurance evidence in compliance with these specifications to waive their right of recovery prior to a loss. Consultant hereby waives its own right of recovery against JPA, and shall require similar written express waivers and insurance clauses from each of its subconsultants.

h. Qualifying Insurers

(i) All policies required shall be issued by acceptable insurance companies, as determined by the JPA, which satisfy the following minimum requirements:

(1) Each such policy shall be from a company or companies with a current A.M. Best's rating of no less than A:VII and admitted to transact business of insurance in the State of California, or otherwise allowed to place insurance through surplus line brokers under applicable provisions of the California Insurance Code or any federal law.

i. Additional Insurance Provisions

(i) The foregoing requirements as to the types and limits of insurance coverage to be maintained by Consultant, and any approval of said insurance by the JPA, is not intended to and shall not in any manner limit or qualify the liabilities and obligations otherwise assumed by the Consultant pursuant to this Agreement, including but not limited to, the provisions concerning indemnification.

(ii) If at any time during the life of the Agreement, any policy of insurance required under this Agreement does not comply with these specifications or is canceled and not replaced, JPA has the right but not the duty to obtain the insurance it deems necessary and any premium paid by JPA will be promptly reimbursed by Consultant or JPA will withhold amounts sufficient to pay premium from Consultant payments. In the alternative, JPA may cancel this Agreement.

(iii) The JPA may require the Consultant to provide complete copies of all insurance policies in effect for the duration of the Project.

(iv) Neither the JPA, its member agencies, Board, any member of the Board, directors, officers, employees, agents, nor volunteers shall be personally responsible for any liability arising under or by virtue of this Agreement.

j. Subconsultant Insurance Requirements. Consultant shall not allow any subcontractors or subconsultants to commence work on any subcontract until they have provided evidence satisfactory to the JPA that they have secured all insurance required under this Section. Policies of commercial general liability insurance provided by such subcontractors or subconsultants shall be endorsed to name the JPA as an additional insured using ISO form CG 20 38 04 13 or an endorsement providing the exact same

coverage. If requested by Consultant, JPA may approve different scopes or minimum limits of insurance for particular subcontractors or subconsultants.

13. Indemnification.

To the fullest extent permitted by law, Consultant shall defend (with counsel of JPA's choosing), indemnify and hold the JPA, its member agencies, officials, officers, employees, volunteers, and agents free and harmless from any and all claims, demands, causes of action, costs, expenses, liability, loss, damage or injury of any kind, in law or equity, to property or persons, including wrongful death, in any manner arising out of, pertaining to, or incident to any negligent acts, errors or omissions, or willful misconduct of Consultant, its officials, officers, employees, subcontractors, consultants or agents in connection with the performance of the Consultant's Services, the Project or this Agreement, including without limitation the payment of all damages, expert witness fees and attorney's fees and other related costs and expenses. Consultant's obligation to indemnify shall not be restricted to insurance proceeds, if any, received by Consultant, the JPA or its member agencies, officials, officers, employees, agents, or volunteers.

To the extent required by Civil Code section 2782.8, which is fully incorporated herein, Consultant's obligations under the above indemnity shall be limited to claims that arise out of, pertain to, or relate to the negligence, recklessness, or willful misconduct of the Consultant, but shall not otherwise be reduced. If Consultant's obligations to defend, indemnify, and/or hold harmless arise out of Consultant's performance of "design professional services" (as that term is defined under Civil Code section 2782.8), then Consultant's obligations shall be reduced in proportion to the established comparative liability of the JPA and shall not exceed the Consultant's proportionate percentage of fault.

14. Interim Administrator.

As Interim Administrator of the JPA, the Interim Administrator may perform any or all acts necessary or convenient to the performance of this Agreement on behalf of the JPA. The Parties acknowledge and agree that the Interim Administrator is an agent of the JPA for all purposes under this Agreement.

15. California Labor Code Requirements.

a. Consultant is aware of the requirements of California Labor Code Sections 1720 et seq. and 1770 et seq., which require the payment of prevailing wage rates and the performance of other requirements on certain "public works" and "maintenance" projects. If the services are being performed as part of an applicable "public works" or "maintenance" project, as defined by the Prevailing Wage Laws, and if the total compensation is \$1,000 or more, Consultant agrees to fully comply with such Prevailing Wage Laws, if applicable. Consultant shall defend, indemnify and hold the JPA, its member agencies, officials, officers, employees and agents free and harmless from any claims, liabilities, costs, penalties or interest arising out of any failure or alleged failure to comply with the Prevailing Wage Laws. It shall be mandatory upon the Consultant and all subconsultants to comply with all California Labor Code provisions, which include but are not limited to prevailing wages, employment of apprentices, hours of labor and debarment of contractors and subcontractors.

b. If the services are being performed as part of an applicable “public works” or “maintenance” project, in addition to the foregoing, then pursuant to Labor Code sections 1725.5 and 1771.1, the Consultant and all subconsultants must be registered with the Department of Industrial Relations (“DIR”). Consultant shall maintain registration for the duration of the project and require the same of any subconsultants. This project may also be subject to compliance monitoring and enforcement by the DIR. It shall be Consultant’s sole responsibility to comply with all applicable registration and labor compliance requirements, including the submission of payroll records directly to the DIR.

16. Verification of Employment Eligibility.

By executing this Agreement, Consultant verifies that it fully complies with all requirements and restrictions of state and federal law respecting the employment of undocumented aliens, including, but not limited to, the Immigration Reform and Control Act of 1986, as may be amended from time to time, and shall require all subconsultants and sub-subconsultants to comply with the same.

17. Laws, Venue, and Attorneys’ Fees.

This Agreement shall be interpreted in accordance with the laws of the State of California. If any action is brought to interpret or enforce any term of this Agreement, the action shall be brought in a state or federal court situated in the County of San Diego, State of California.

18. Termination or Abandonment.

a. JPA has the right to terminate or abandon any portion or all of the work under this Agreement by giving ten (10) calendar days written notice to Consultant. In such event, JPA shall be immediately given title and possession to all original field notes, drawings and specifications, written reports and other documents produced or developed for that portion of the work completed and/or being abandoned. JPA shall pay Consultant the reasonable value of services rendered for any portion of the work completed prior to termination. If said termination occurs prior to completion of any task for the Project for which a payment request has not been received, the charge for services performed during such task shall be the reasonable value of such services, based on an amount mutually agreed to by JPA and Consultant of the portion of such task completed but not paid prior to said termination. JPA shall not be liable for any costs other than the charges or portions thereof which are specified herein. Consultant shall not be entitled to payment for unperformed services, and shall not be entitled to damages or compensation for termination of work.

b. Consultant may terminate its obligation to provide further services under this Agreement upon thirty (30) calendar days’ written notice to JPA only in the event of substantial failure by JPA to perform in accordance with the terms of this Agreement through no fault of Consultant.

19. Documents.

Except as otherwise provided in “Termination or Abandonment,” above, all original field notes, written reports, Drawings and Specifications and other documents, produced or developed for the Project

shall, upon payment in full for the services described in this Agreement, be furnished to and become the property of the JPA.

20. Organization.

Consultant shall assign Rosalyn Prickett as Principal-in-Charge and Lindsey Wilcox as Project Manager. The Project Manager shall not be removed from the Project or reassigned without the prior written consent of the JPA, not to be unreasonable withheld.

21. Limitation of Agreement.

This Agreement is limited to and includes only the work included in the Project described above and as determined at the time the schematic plans and site utilization plans are approved. Any subsequent construction at the site of the Project, or at any other JPA site, will be covered by, and be the subject of, a separate Agreement for between JPA and the Engineer chosen therefore by JPA.

22. Notice.

Any notice or instrument required to be given or delivered by this Agreement may be given or delivered by depositing the same in any United States Post Office, certified mail, return receipt requested, postage prepaid, addressed to:

JPA:

East County AWP JPA
c/o Padre Dam Municipal Water District
Attn: Mark Niemiec, P.E.
P.O. Box 719003
Santee, CA 92072-9003

CONSULTANT:

Woodard & Curran, Inc.
Attn: Rosalyn Prickett
9665 Chesapeake Dr., Ste. 320
San Diego, CA 92123

and shall be effective upon receipt thereof.

23. Third Party Rights.

Nothing in this Agreement shall be construed to give any rights or benefits to anyone other than the JPA and the Consultant.

24. Equal Opportunity Employment.

Consultant represents that it is an equal opportunity employer and that it shall not discriminate against any employee or applicant for employment because of race, religion, color, national origin, ancestry, sex, age or other interests protected by the State or Federal Constitutions. Such non-discrimination shall include, but not be limited to, all activities related to initial employment, upgrading, demotion, transfer, recruitment or recruitment advertising, layoff or termination.

25. Entire Agreement.

This Agreement, with its exhibits, represents the entire understanding of JPA and Consultant as to those matters contained herein, and supersedes and cancels any prior or contemporaneous oral or written understanding, promises or representations with respect to those matters covered hereunder. Each party acknowledges that no representations, inducements, promises or agreements have been made by any person which are not incorporated herein, and that any other agreements shall be void. This Agreement may not be modified or altered except in writing signed by both parties hereto. This is an integrated Agreement.

26. Severability.

The unenforceability, invalidity or illegality of any provision(s) of this Agreement shall not render the provisions unenforceable, invalid or illegal.

27. Successors and Assigns.

This Agreement shall be binding upon and shall inure to the benefit of the successors in interest, executors, administrators and assigns of each party to this Agreement. However, Consultant shall not assign or transfer by operation of law or otherwise any or all of its rights, burdens, duties or obligations without the prior written consent of JPA. Any attempted assignment without such consent shall be invalid and void.

28. Non-Waiver.

None of the provisions of this Agreement shall be considered waived by either party, unless such waiver is specifically specified in writing.

29. Time of Essence.

Time is of the essence for each and every provision of this Agreement.

30. JPA's Right to Employ Other Consultants.

JPA reserves right to employ other consultants, including engineers, in connection with this Project or other projects.


31. Prohibited Interests.

Consultant maintains and warrants that it has not employed nor retained any company or person, other than a bona fide employee working solely for Consultant, to solicit or secure this Agreement. Further, Consultant warrants that it has not paid nor has it agreed to pay any company or person, other than a bona fide employee working solely for Consultant, any fee, commission, percentage, brokerage fee, gift or other consideration contingent upon or resulting from the award or making of this Agreement. For breach or violation of this warranty, JPA shall have the right to rescind this Agreement without liability. For the term of this Agreement, no director, official, officer or employee of the JPA, during the term of his

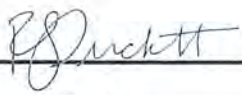
or her service with JPA, shall have any direct interest in this Agreement, or obtain any present or anticipated material benefit arising therefrom.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date first written above.


**EAST COUNTY ADVANCED WATER
PURIFICATION JOINT POWERS AUTHORITY**

By: 
Name: G. Allen Carlisle
Title: CEO / General Manager of Padre Dam,
JPA Interim Administrator


WOODARD & CURRAN, INC.

By: 
Name: Rosalyn Prickett
Title: Principal

Approved as to Form:


Nicholaus Norvell
Interim JPA Legal Counsel
East County Advanced Water Purification
Joint Powers Authority

Approved by the East County
AWP JPA Board of Directors
on 2/20/2020

Attest: 
Board Secretary

Professional Services Agreement
Between the East County Advanced Water Purification Joint Powers Authority
and Woodard & Curran, Inc.

EXHIBIT A
SCOPE OF SERVICES

Via Electronic Mail

January 27, 2020



Seval Sen
Padre Dam Municipal Water District
9300 Fanita Parkway
Santee, CA 92071

Re: Proposal for ECAWP Phase II WIIN – FY 2020 – 2025 Grant Funding Support

Dear Ms. Sen:

Thank you for the opportunity to submit this letter proposal for grant funding support to Padre Dam Municipal Water District (MWD) for its East County Advanced Water Purification Program – Phase II Project. In 2019, Woodard & Curran prepared a Title XVI Feasibility Study for the Project which was reviewed and approved by the U.S. Bureau of Reclamation (Reclamation) resulting in grant eligibility for Reclamation's *WaterSMART: Title XVI Water Infrastructure Improvements for the Nation (WIIN) Reclamation and Reuse Program*. The Title XVI WIIN Program is similar to Reclamation's Title XVI Program, except the latter only funds projects that were congressionally authorized, whereas the WIIN subset funds projects that received a determination of feasibility from Reclamation through preparation of a Title XVI Feasibility Study. Woodard & Curran has provided Padre Dam MWD funding support for the ECAWP Phase I Project since 2016. We assisted Padre Dam MWD secure \$16.6 million for the Phase I Project through preparation of four Title XVI applications (see summary table below). We recently executed a purchase order with Padre Dam MWD to prepare the FY2020 Title XVI application for its Phase I Project. We have the project background and knowledge and experienced staff to help Padre Dam successfully apply for WIIN grant funding for the Phase II Project.

Table 1: ECAWP Phase I Project Title XVI Awards

WaterSMART: Title XVI Fiscal Year	Grant Award
FY2016	\$4,500,000
FY2017	\$3,900,000
FY2018	\$7,392,351
FY2019	\$778,002
Total Grants to Date	\$16,570,353

The purpose of the WIIN Program is to develop and supplement urban and irrigation water supplies through water reuse, thereby improving efficiency, providing flexibility during water shortages, and diversifying water supply. A water reuse project is a project that reclaims and reuses municipal, industrial, domestic, or agricultural wastewater and naturally impaired groundwater and/or surface waters. The ECAWP Phase II Project is a recycled water project that will create a new local, sustainable, and drought proof drinking water supply through surface water augmentation, which will diversify East County's water supply and reduce the region's dependence on imported water. Over the last few years, the ECAWP has grown into a larger collaborative effort between Padre Dam MWD and three local agencies: City of El Cajon, County of San Diego, and Helix Water District. The ECAWP (including the Phase II Project) will generate an additional 8,960 AFY of local potable water supply.



Projects can receive 25% of the total project cost or \$20 million, whichever is less, through multiple rounds of funding. Reclamation typically releases a Funding Opportunity Announcement (FOA) for the WIIN Program annually. The FY2020 FOA is anticipated in Spring 2020. Padre Dam MWD has requested that Woodard & Curran prepare the FY2020 WIIN application and all subsequent applications until the Phase II Project receives its maximum grant amount. For scoping and budget purposes, we have assumed that Padre Dam MWD would receive between \$1 and \$4 million each round. Woodard & Curran would provide funding support for six FOAs from FY2020 through FY2025 in order for Padre Dam MWD to receive its full \$20 million.

As with our previous Title XVI funding efforts and WIIN feasibility study preparation for Padre Dam MWD, Woodard & Curran has assembled a team that has proven successful at preparing complicated grant applications together in order to position Padre Dam MWD's Phase II Project as well as possible.

SCOPE OF SERVICES

Woodard & Curran proposes the following scope of work. Each FY's funding application is its own task. Padre Dam MWD would authorize budget each FY; Woodard & Curran would adjust scope and budget, as needed, each FY pending the release of the FOAs.

Task 1: FY2020 WIIN Grant Application

1. Review grant solicitation materials
2. Prepare data request
3. Conduct application kickoff meeting (to be conducted via conference call) with Padre Dam MWD staff to review FY 2020 FOA and data request
4. Review data provided by Padre Dam and conduct follow-up calls with Padre Dam staff to confirm project costs and benefits
5. Provide support to Padre Dam MWD staff for development of resolutions and/or other necessary support materials for grant submittal
6. Prepare grant application materials, including technical proposal and evaluation criteria
7. Prepare cost effectiveness and economic benefits based on construction cost estimates provided by Padre Dam MWD
8. Produce review draft and final digital (PDF) version of grant application
9. Complete upload of grant application materials to www.grants.gov website

Task 1 Deliverables:

- *Draft electronic (Word and PDF) files of WIIN FY 2020 grant application*
- *Final electronic (Word and PDF) files of WIIN FY 2020 grant application*

Task 2: FY2021 WIIN Grant Application

1. Review grant solicitation materials
2. Prepare data request



3. Conduct application kickoff meeting (to be conducted via conference call) with Padre Dam MWD staff to review FY 2021 FOA and data request
4. Review data provided by Padre Dam and conduct follow-up calls with Padre Dam staff to confirm project costs and benefits
5. Provide support to Padre Dam MWD staff for development of resolutions and/or other necessary support materials for grant submittal
6. Revise/update grant application materials, including technical proposal and evaluation criteria
7. Revise/update cost effectiveness and economic benefits based on construction cost estimates provided by Padre Dam MWD
8. Produce review draft and final digital (PDF) version of grant application
9. Complete upload of grant application materials to www.grants.gov website

Task 2 Deliverables:

- *Draft electronic (Word and PDF) files of WIIN FY 2021 grant application (in track changes from FY 2020 file)*
- *Final electronic (Word and PDF) files of WIIN FY 2021 grant application*

Task 3: FY2022 WIIN Grant Application

1. Review grant solicitation materials
2. Prepare data request
3. Conduct application kickoff meeting (to be conducted via conference call) with Padre Dam MWD staff to review FY 2022 FOA and data request
4. Review data provided by Padre Dam and conduct follow-up calls with Padre Dam staff to confirm project costs and benefits
5. Provide support to Padre Dam MWD staff for development of resolutions and/or other necessary support materials for grant submittal
6. Revise/update grant application materials, including technical proposal and evaluation criteria
7. Revise/update cost effectiveness and economic benefits based on construction cost estimates provided by Padre Dam MWD
8. Produce review draft and final digital (PDF) version of grant application
9. Complete upload of grant application materials to www.grants.gov website

Task 3 Deliverables:

- *Draft electronic (Word and PDF) files of WIIN FY 2022 grant application (in track changes from FY 2021 file)*
- *Final electronic (Word and PDF) files of WIIN FY 2022 grant application*



Task 4: FY2023 WIIN Grant Application

1. Review grant solicitation materials
2. Prepare data request
3. Conduct application kickoff meeting (to be conducted via conference call) with Padre Dam MWD staff to review FY 2023 FOA and data request
4. Review data provided by Padre Dam and conduct follow-up calls with Padre Dam staff to confirm project costs and benefits
5. Provide support to Padre Dam MWD staff for development of resolutions and/or other necessary support materials for grant submittal
6. Revise/update grant application materials, including technical proposal and evaluation criteria
7. Revise/update cost effectiveness and economic benefits based on construction cost estimates provided by Padre Dam MWD
8. Produce review draft and final digital (PDF) version of grant application
9. Complete upload of grant application materials to www.grants.gov website

Task 4 Deliverables:

- *Draft electronic (Word and PDF) files of WIIN FY 2023 grant application (in track changes from FY 2022 file)*
- *Final electronic (Word and PDF) files of WIIN FY 2023 grant application*

Task 5: FY2024 WIIN Grant Application

1. Review grant solicitation materials
2. Prepare data request
3. Conduct application kickoff meeting (to be conducted via conference call) with Padre Dam MWD staff to review FY 2024 FOA and data request
4. Review data provided by Padre Dam and conduct follow-up calls with Padre Dam staff to confirm project costs and benefits
5. Provide support to Padre Dam MWD staff for development of resolutions and/or other necessary support materials for grant submittal
6. Revise/update grant application materials, including technical proposal and evaluation criteria
7. Revise/update cost effectiveness and economic benefits based on construction cost estimates provided by Padre Dam MWD
8. Produce review draft and final digital (PDF) version of grant application
9. Complete upload of grant application materials to www.grants.gov website



Task 5 Deliverables:

- *Draft electronic (Word and PDF) files of WIIN FY 2024 grant application (in track changes from FY 2023 file)*
- *Final electronic (Word and PDF) files of WIIN FY 2024 grant application*

Task 6: FY2025 WIIN Grant Application

1. Review grant solicitation materials
2. Prepare data request
3. Conduct application kickoff meeting (to be conducted via conference call) with Padre Dam MWD staff to review FY 2025 FOA and data request
4. Review data provided by Padre Dam and conduct follow-up calls with Padre Dam staff to confirm project costs and benefits
5. Provide support to Padre Dam MWD staff for development of resolutions and/or other necessary support materials for grant submittal
6. Revise/update grant application materials, including technical proposal and evaluation criteria
7. Revise/update cost effectiveness and economic benefits based on construction cost estimates provided by Padre Dam MWD
8. Produce review draft and final digital (PDF) version of grant application
9. Complete upload of grant application materials to www.grants.gov website

Task 6 Deliverables:

- *Draft electronic (Word and PDF) files of WIIN FY 2025 grant application (in track changes from FY 2024 file)*
- *Final electronic (Word and PDF) files of WIIN FY 2024 grant application*

SCHEDULE

Typically, Woodard & Curran has approximately six weeks to prepare a WIIN grant application, from when the FOA is released to the due date required by Reclamation. An individual project schedule will be developed prior to the preparation of each individual application.

BUDGET

Woodard & Curran proposes to assist Padre Dam MWD in completing the WIIN grant applications from FY2020 through 2025 for a not-to-exceed amount of \$164,587. A detailed fee estimate is provided in **Attachment A**. The budget assumes the WIIN FOAs will be similar to past WIIN FOAs. A contingency line item is included for each task to account for changes in the FOAs from year to year that require new or revised analysis, or for changes to the project details, cost, and schedule as design progresses. The cost for the proposed work will be on a time-and-materials basis in accordance with the attached rate schedule.



ASSUMPTIONS AND UNDERSTANDINGS

The following assumptions and understandings apply to the scope of work, schedule, and budget described herein.

1. There are no substantial project changes each application
2. Padre Dam MWD will provide data in the format requested by Woodard & Curran
3. Padre Dam MWD will be responsible for providing updated project information (costs, project changes, and progress to-date) describing the Phase II Project as well as soliciting letters of support from stakeholders, as necessary.
4. Woodard & Curran will be responsible for overall coordination and production of the grant application, along with submittal of the final grant application to Reclamation through the www.grants.gov website.

We greatly appreciate this opportunity to continue to offer our funding support services. Please feel free to call me at 858-875-7420 if you have any questions regarding this proposal or require any further information.

Sincerely,

WOODARD & CURRAN

Rosalyn Prickett
Principal

Enclosure(s): Fee Estimate

Professional Services Agreement
Between the East County Advanced Water Purification Joint Powers Authority
and Woodard & Curran, Inc.

EXHIBIT B

SCHEDULE OF CHARGES/PAYMENTS

Consultant will invoice Padre Dam Municipal Water District, as the Interim Administrator of the East County Advanced Water Purification Joint Powers Authority ("Administrator") on a monthly cycle. Consultant will include with each invoice a detailed progress report that indicates the amount of budget spent on each task. Consultant will inform Administrator regarding any out-of-scope work being performed by Consultant. This is a time-and-materials contract.



Fee Estimate

January 27, 2020

**Padre Dam Municipal Water District
ECAWP Phase II WIIN Funding Support FY2020-2025**

Tasks		Labor						ODCs				Total
2020 Rates 2021 Rates (Estimated) 2022 Rates (Estimated) 2023 Rates (Estimated) 2024 Rates (Estimated) 2025 Rates (Estimated)		Rosalyn Prickett	Lindsey Wilcox	Jen Kidson	Oliver Saeby	Haley Johnson	Jen Sindermann	Total Hours	Total Labor Costs (1)	ODCs	Total ODCs (2)	Total Fee
		PIC	PM	Planner	Engineer	Economic Benefits	Admin Support					
		\$289	\$257	\$217	\$192	\$227	\$113					
		\$298	\$265	\$224	\$198	\$234	\$116					
		\$307	\$273	\$230	\$204	\$241	\$120					
		\$316	\$281	\$237	\$210	\$248	\$123					
		\$325	\$289	\$244	\$216	\$255	\$127					
\$335	\$298	\$252	\$223	\$263	\$131							
Task 1: FY2020 WIIN Grant Application												
Kickoff Meeting Prep and Attendance		1	1	2				4	\$980		\$0	\$980
FOA Review and USBR Coordination			1	2				3	\$691		\$0	\$691
Data Request and Data Processing			6	12				18	\$4,146		\$0	\$4,146
Draft Application		1	16	48	8	4		77	\$17,261		\$0	\$17,261
Final Application		1	12	24	4			41	\$9,349		\$0	\$9,349
Production and Submittal			2	4			1	7	\$1,495		\$0	\$1,495
Project Management			2	1			2	5	\$957		\$0	\$957
Contingency		1	6	17		4		28	\$6,428		\$0	\$6,428
Subtotal Task 1:		4	46	110	12	8	3	183	\$41,307	\$0	\$0	\$41,307
Task 2: FY2021 WIIN Grant Application												
Kickoff Meeting Prep and Attendance			1	2				3	\$712		\$0	\$712
FOA Review and USBR Coordination			1	2				3	\$712		\$0	\$712
Data Request and Data Processing			4	8				12	\$2,847		\$0	\$2,847
Draft Application		1	4	16	4	4		29	\$6,659		\$0	\$6,659
Final Application		1	4	8				13	\$3,145		\$0	\$3,145
Production and Submittal			2	4			1	7	\$1,540		\$0	\$1,540
Project Management			2	1			2	5	\$986		\$0	\$986
Contingency		1	6	17		4		28	\$6,621		\$0	\$6,621
Subtotal Task 2:		3	24	58	4	8	3	100	\$23,220	\$0	\$0	\$23,220
Task 3: FY2022 WIIN Grant Application												
Kickoff Meeting Prep and Attendance			1	2				3	\$733		\$0	\$733
FOA Review and USBR Coordination			1	2				3	\$733		\$0	\$733
Data Request and Data Processing			4	8				12	\$2,932		\$0	\$2,932
Draft Application		1	4	16	4	4		29	\$6,859		\$0	\$6,859
Final Application		1	4	8				13	\$3,239		\$0	\$3,239
Production and Submittal			2	4			1	7	\$1,586		\$0	\$1,586
Project Management			2	1			2	5	\$1,015		\$0	\$1,015
Contingency		1	6	17		4		28	\$6,819		\$0	\$6,819
Subtotal Task 3:		3	24	58	4	8	3	100	\$23,917	\$0	\$0	\$23,917
Task 4: FY2023 WIIN Grant Application												
Kickoff Meeting Prep and Attendance			1	2				3	\$755		\$0	\$755
FOA Review and USBR Coordination			1	2				3	\$755		\$0	\$755
Data Request and Data Processing			4	8				12	\$3,020		\$0	\$3,020
Draft Application		1	4	16	4	4		29	\$7,064		\$0	\$7,064
Final Application		1	4	8				13	\$3,336		\$0	\$3,336
Production and Submittal			2	4			1	7	\$1,634		\$0	\$1,634
Project Management			2	1			2	5	\$1,046		\$0	\$1,046
Contingency		1	6	17		4		28	\$7,024		\$0	\$7,024
Subtotal Task 4:		3	24	58	4	8	3	100	\$24,634	\$0	\$0	\$24,634
Task 5: FY2024 WIIN Grant Application												
Kickoff Meeting Prep and Attendance			1	2				3	\$778		\$0	\$778
FOA Review and USBR Coordination			1	2				3	\$778		\$0	\$778
Data Request and Data Processing			4	8				12	\$3,111		\$0	\$3,111
Draft Application		1	4	16	4	4		29	\$7,276		\$0	\$7,276
Final Application		1	4	8				13	\$3,436		\$0	\$3,436
Production and Submittal			2	4			1	7	\$1,683		\$0	\$1,683
Project Management			2	1			2	5	\$1,077		\$0	\$1,077
Contingency		1	6	17		4		28	\$7,235		\$0	\$7,235
Subtotal Task 5:		3	24	58	4	8	3	100	\$25,373	\$0	\$0	\$25,373
Task 6: FY2025 WIIN Grant Application												
Kickoff Meeting Prep and Attendance			1	2				3	\$801		\$0	\$801
FOA Review and USBR Coordination			1	2				3	\$801		\$0	\$801
Data Request and Data Processing			4	8				12	\$3,204		\$0	\$3,204
Draft Application		1	4	16	4	4		29	\$7,495		\$0	\$7,495
Final Application		1	4	8				13	\$3,539		\$0	\$3,539
Production and Submittal			2	4			1	7	\$1,733		\$0	\$1,733
Project Management			2	1			2	5	\$1,109		\$0	\$1,109
Contingency		1	6	17		4		28	\$7,452		\$0	\$7,452
Subtotal Task 6:		3	24	58	4	8	3	100	\$26,135	\$0	\$0	\$26,135
TOTAL		19	166	400	32	48	18	683	\$164,587	\$0	\$0	\$164,587

1. The individual hourly rates include salary, overhead and profit.

2. Other direct costs (ODCs) such as reproduction, delivery, mileage (rates will be those allowed by current IRS guidelines), and travel expenses, will be billed at actual cost plus 10%.

3. W&C reserves the right to adjust its hourly rate structure and ODC markup at the beginning of the calendar year for all ongoing contracts.



BOARD AGENDA REPORT

Meeting Date: 02-16-2022
Dept. Head: Allen Carlisle, CEO/GM
Submitted by: Mark Niemiec, P.E.
Department: Engineering
Approved by: Allen Carlisle, CEO/GM

SUBJECT: RECYCLED WATER DISTRIBUTION SYSTEM MODIFICATIONS

RECOMMENDATION(S):

Authorize the CEO/General Manager, or his designee, to utilize the Recycled Water Reserve Fund to pay for modifications to the recycled water distribution system. The total forecasted expenditures associated with the work is \$150,000.

ALTERNATIVE(S):

Do not authorize use of Recycled Water funds for the associated Recycled Water system modifications.

ATTACHMENT(S):

1. Figure 1 - Proposed Recycled Water Distribution System Modifications

FUNDING:

Requested amount: \$150,000
Budgeted amount: \$0 (note description herein)
Are funds available? ☒ Yes ☐ No
Project cost to date: \$0

PRIOR BOARD/COMMITTEE CONSIDERATION:

STRATEGIC PLAN IMPLEMENTATION:

This agenda item is consistent with the District's Strategic Plan and meets one or more of the following Strategic Goals: Provide safe, reliable water, recycled water and sewer services; Ensure fiscal health and competitively sustainable rates; Enhance customer communications and education; Increase water, wastewater and energy independence; Maintain workforce excellence; Expand park and recreation opportunities.

Reviewed by:	Action Required:	Policy Updates:	Action Taken:
Dept Head <input checked="" type="checkbox"/>	Motion <input checked="" type="checkbox"/>	Rules & Regulations <input type="checkbox"/>	As Recommended _____
Finance <input checked="" type="checkbox"/>	Resolution <input type="checkbox"/>	Standard Practices <input type="checkbox"/>	Reso/Ord. No. _____
Legal Counsel <input type="checkbox"/>	Ordinance <input type="checkbox"/>	& Policies	Other _____
Standard Form <input type="checkbox"/>	None <input type="checkbox"/>		

EXECUTIVE SUMMARY:

The District's Rules and Regulations, Section 7.2 (Recycled Water Policy) requires that the Ray Stoyer Water Recycling Facility (WRF) provide, to the extent possible, sufficient flow of water to Santee Lakes Recreation Preserve (Santee Lakes) to maintain water levels and adequate irrigation. Given the age of the WRF (constructed in 1962 and last expanded in 1997) and the upcoming start of construction of the of the East County Advanced Water Purification (AWP) project, modifications to the recycled water distribution system are prudent to ensure that Santee Lakes can be supplied water in a reliable fashion during start-up of the new AWP facilities or in the event of a failure at the existing WRF.

District staff plans to design and install these modifications before the Package #1 design-builder, AECOM-Lyles (A/L), a joint venture, mobilizes in the summer of 2022.

DESCRIPTION:

The WRF treatment process relies on a number of essential components. Over the past few year's staff has implemented strategic improvements to increase the likelihood that the WRF will be operational until commissioning of the AWP project commences. However, in the event an essential component fails the WRF would need to be taken out of service for emergency repairs. Under this scenario, Padre Dam would not be able to treat any wastewater, which would halt the supply of recycled water to Santee Lakes and the recycled water system, until a permanent fix could be implemented. Additionally, during start-up, commissioning, and acceptance testing of the new AWP facilities it is anticipated the WRF will be out of service to provide Padre Dam operations and maintenance staff the opportunity to work collaboratively with the design-builder to train, learn operations, and perform commissioning and testing of the new facilities prior to commercial operations.

The WRF supplies recycled water to Santee Lakes and to the recycled water distribution network via separate distribution systems. The WRF supplies Santee Lakes utilizing a system comprised of Ponds A, B, and C and an 18-inch gravity pipeline. The recycled water distribution network, or "purple pipe" system, is fed by the Recycled Water Effluent Pump Station, the 1.5-mg Fanita Terrace Reservoir, and approximately 32 miles of distribution piping within the Western Service Area (WSA). Staff evaluated multiple options to provide a backup water supply for Santee Lakes including installation of groundwater wells and various potable water supply connections. Staff determined the best option is to provide an interconnection between the recycled distribution system and the Santee Lakes distribution system just south of Pond C (see Figure 1) to supply potable water to the Lakes. This location was selected because it is north of an existing flow meter that can be used to track the volumes of water being fed to the Lakes. The chlorinated water fed to the Lakes will require dechlorination and the flow meter will be used to dose chemicals to quench the chloramine residual.

Staff plans to design and install these facilities to minimize costs. The area where these modifications are planned is adjacent to where the AWP Package #1 design-builder is planning to set up their field operations center. For this reason, staff plans to install these modifications before the design-builder mobilizes in summer 2022; staff anticipates the cost of these modifications will not exceed \$150,000.

Staff recommends investing in the above described recycled water distribution system modifications. The infrastructure installed as part of these modifications will be permanent facilities that will benefit Padre Dam and Santee Lakes by providing a reliable alternate supply of water to Santee Lakes independent of the recycled water provided from the existing WRF or new AWP facilities. The proposed modifications were not contemplated in the Board approved Five-Year Business Plan and Budget for Fiscal Years 2018 –

2022. Staff is requesting the Board authorize the CEO/General Manager to utilize the Recycled Water Reserve Fund Balance to fully fund the work while maintaining Board approved minimum balances.

RECOMMENDATION(S):

Authorize the CEO/General Manager, or his designee, to utilize the Recycled Water Reserve Fund to pay for modifications to the recycled water distribution system. The total forecasted expenditures associated with the work is \$150,000.

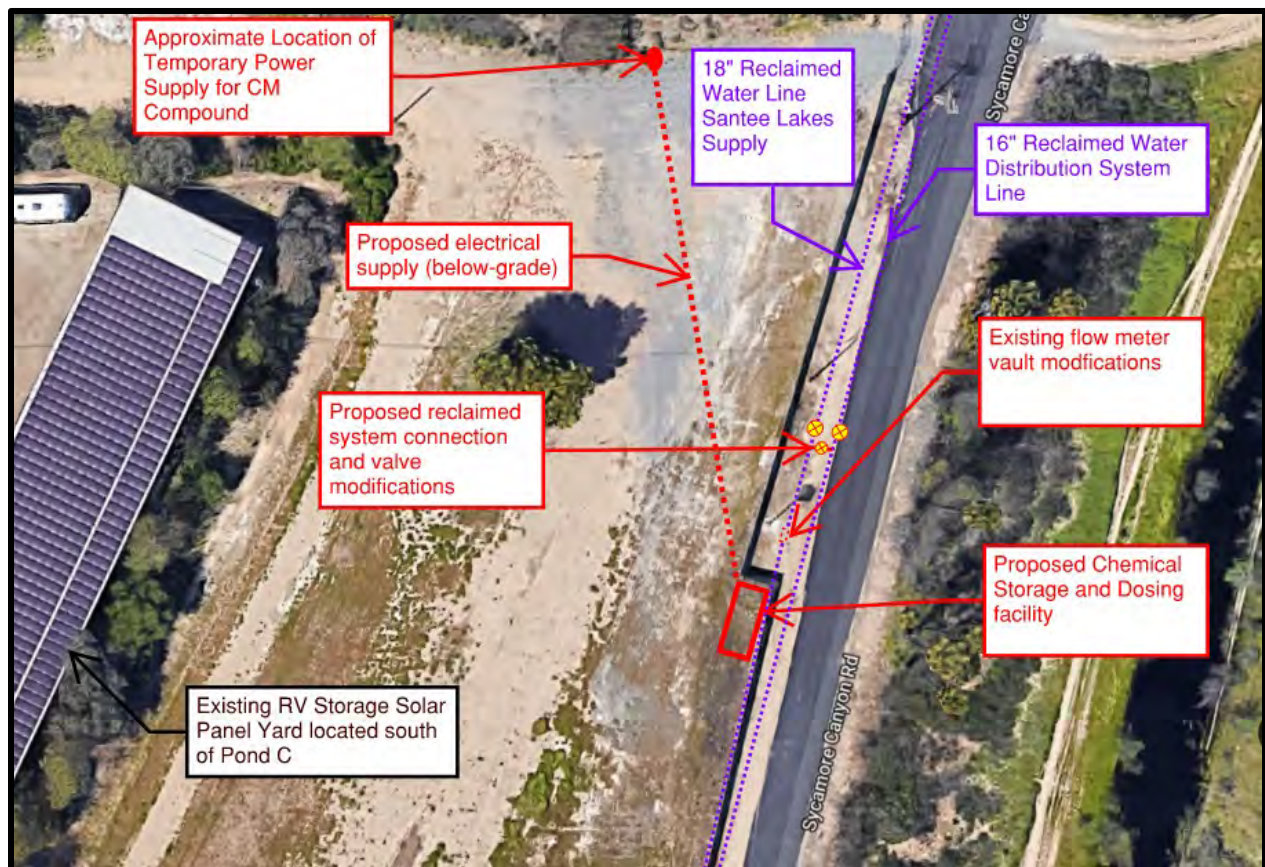


Figure 1 – Proposed Recycled Water Distribution System Modifications



PADRE DAM
Municipal Water District

BOARD AGENDA REPORT

Meeting Date: 02-16-2022
Submitted by: Allen Carlisle
Approved by: Allen Carlisle, CEO/GM

SUBJECT: UPDATE ON FALLBROOK PUD AND RAINBOW MWD PROPOSED DETACHMENT FROM COUNTY WATER AUTHORITY

RECOMMENDATION(S):

Hear update from Fallbrook General Manager, Jack Bebee, regarding the proposed detachment.

ALTERNATIVE(S):

ATTACHMENT(S):

None

FUNDING:

Requested amount: n/a

Budgeted amount:

Are funds available? ☐ Yes ☐ No

Project cost to date:

PRIOR BOARD/COMMITTEE CONSIDERATION:

STRATEGIC PLAN IMPLEMENTATION:

This agenda item is consistent with the District's Strategic Plan and meets one or more of the following Strategic Goals: Provide safe, reliable water, recycled water and sewer services; Ensure fiscal health and competitively sustainable rates; Enhance customer communications and education; Increase water, wastewater and energy independence; Maintain workforce excellence; Expand park and recreation opportunities.

Reviewed by:

Dept Head ☒
Finance ☐
Legal Counsel ☐
Standard Form ☐

Action Required:

Motion ☐
Resolution ☐
Ordinance ☐
None ☒

Policy Updates:

Rules & Regulations ☐
Standard Practices ☐
& Policies

Action Taken:

As Recommended _____
Reso/Ord. No. _____
Other _____



BOARD AGENDA REPORT

Meeting Date: 02-16-2022
Dept. Head: Lisa Sorce / Allen Carlisle
Submitted by: Jen Gordon / Amy Pederson
Department: GIS / Administration
Approved by: Allen Carlisle, CEO/GM

SUBJECT: PUBLIC HEARING ON REDISTRICTING OPTIONS FOR PADRE DAM'S VOTER DIVISION BOUNDARIES

RECOMMENDATION(S):

1. Hear staff report on two redistricting options developed for public input.
2. Open public hearing to receive comments on the proposed redistricting options; close public hearing. No action is required at this meeting; a second public hearing is scheduled for March 16, 2022.

ALTERNATIVE(S):

1. None. This is the first of two public hearings required prior to formal adoption by the Board.

ATTACHMENT(S):

1. Map showing 2010 Census Blocks (1,356 total)
2. Map showing 2020 Census Blocks (863 total)
3. Option One map showing proposed voter divisions with 2020 census block populations assigned to each division
4. Option Two map showing proposed voter divisions with 2020 census block populations assigned to each voter division
5. Map showing difference between Options One and Two

FUNDING:

Requested amount: n/a

Budgeted amount:

Are funds available? ☒ Yes ☐ No

Project cost to date:

PRIOR BOARD/COMMITTEE CONSIDERATION: November 3, 2021 – The Board authorized redistricting to be done using in-house personnel. December 1, 2021 and January 19, 2022 – Staff presented two options for Board input, and the Board set public hearings on February 16 and March 16, 2022 to receive public comments on redistricting options, prior to formal adoption by the Board.

STRATEGIC PLAN IMPLEMENTATION: This agenda item is consistent with the District's Strategic Plan and meets one or more of the following Strategic Goals: Provide safe, reliable water, recycled water and sewer services; Ensure fiscal health and competitively sustainable rates; Enhance customer communications and education; Increase water, wastewater and energy independence; Maintain workforce excellence; Expand park and recreation opportunities.

Reviewed by:

Dept Head ☒
Finance ☐
Legal Counsel ☒
Standard Form ☐

Action Required:

Motion ☐
Resolution ☐
Ordinance ☐
None ☒

Policy Updates:

Rules & Regulations ☐
Standard Practices & Policies ☐

Action Taken:

As Recommended _____
Reso/Ord. No. _____
Other _____

EXECUTIVE SUMMARY:

The release of the 2020 U.S. Census data triggered the requirement for the District to adjust boundaries of its voter divisions through the process commonly known as “redistricting.” The primary goal of redistricting is to get as close as practical to equal population in each division so that each board member represents about the same number of constituents.

At its November 3, 2021 meeting, the Board authorized staff to provide redistricting alternatives using in-house personnel to: a) bring the population count of those divisions within the presumptively valid variance (ultimately the same percentage); and b) justify why any remaining disparity from the ideal population distribution is acceptable based on statutorily recognized secondary considerations.

At the January 19, 2022 meeting, the Board reviewed two proposed redistricting options and scheduled two public hearings on February 16 and March 16, 2022 to receive public input on the options presented. Notice of the first public hearing was published in the Union Tribune on February 2 and February 9. It was also published on the District’s website along with maps of the proposed voter division boundaries.

Staff will review the two proposed redistricting options at the meeting for public input.

BACKGROUND:

The Elections Code requires that each division be substantially equal in population (i.e. less than 10 percent population deviation between divisions), divided in a logically compact and contiguous manner based on geography and community of interest. Population variance between divisions of up to 15 percent may be acceptable based on the pervasiveness of secondary considerations (topography, geography, cohesiveness, contiguity, integrity, compactness, and community of interest), but the goal should be to get as close as practical to equal population.

A preliminary analysis of the 2020 Census data showed significant changes to the spatial extents of 2020 census blocks and an increase in total population, requiring the need for redistricting. At their November 3, 2021 meeting, the Board authorized staff to provide redistricting alternatives using in-house personnel.

Staff presented two redistricting options for Board input at the December 1, 2021 Board meeting. The two primary factors for the proposed changes were: 1) census total population increased from 96,589 in 2010 to 112,839 in 2020 (increase of 16,250); and 2) significant changes to census blocks, reducing the number from 1356 in 2010 to 863 in 2020. Based on Board feedback, staff worked with Legal Counsel to determine if other options were available based on secondary considerations or other factors allowed under redistricting laws.

At the January 19, 2022 Board meeting, staff reported in working with Legal Counsel it was determined that no significant changes could be made to the options presented at the December 1 meeting in light of the U.S. Census Bureau’s reduction and redrawing of the number of census blocks. Census blocks are the smallest unit of census geography and must be preserved during the redistricting process (i.e. can’t be split across divisions or boundaries). Staff presented two refined options to the Board based on further analysis of the data, thereby reducing the total population deviation to 2.8 percent for Option One and increasing Option Two to 7.2 percent. Both options meet the requirement of having a total population deviation of less than 10 percent between divisions.

Additional data and considerations used in developing the redistricting options are described below.

The District’s total population is 112,839 with a target total population of 22,567.8 for each division. Total population and geography was sourced from the 2020 Census Blocks. Census Blocks that were within or had

an overlapping area with the District boundary were included in the redistricting analysis. Census block geography was maintained and followed. Other geographic considerations included:

- Preserving Census Block Group geography
- Communities of interest
- Preserving current voter divisions to the extent feasible
- Following City boundaries

Option One – 2020 Redistricting

Voter Division	Total Population	Population Difference from Target	Deviation	Percent Deviation
1	22,361	206.8	0.0092	0.9%
2	22,389	178.8	0.0079	
3	23,010	-442.2	-0.0196	1.9%
4	22,409	158.8	0.0070	
5	22,670	-102.2	-0.0045	
	Total Population	Target Population		Percent Total Deviation ¹
	112,839	22,567.8		2.8%

Option Two – 2020 Redistricting

Voter Division	Total Population	Population Difference from Target	Deviation	Percent Deviation
1	22,326	241.8	0.011	
2	22,764	-196.2	-0.009	
3	23,486	-918.2	-0.041	4.1%
4	22,409	158.8	0.007	
5	21,854	713.8	0.032	3.1%
	Total Population	Target Population		Percent Total Deviation ¹
	112,839	22,567.8		7.2%

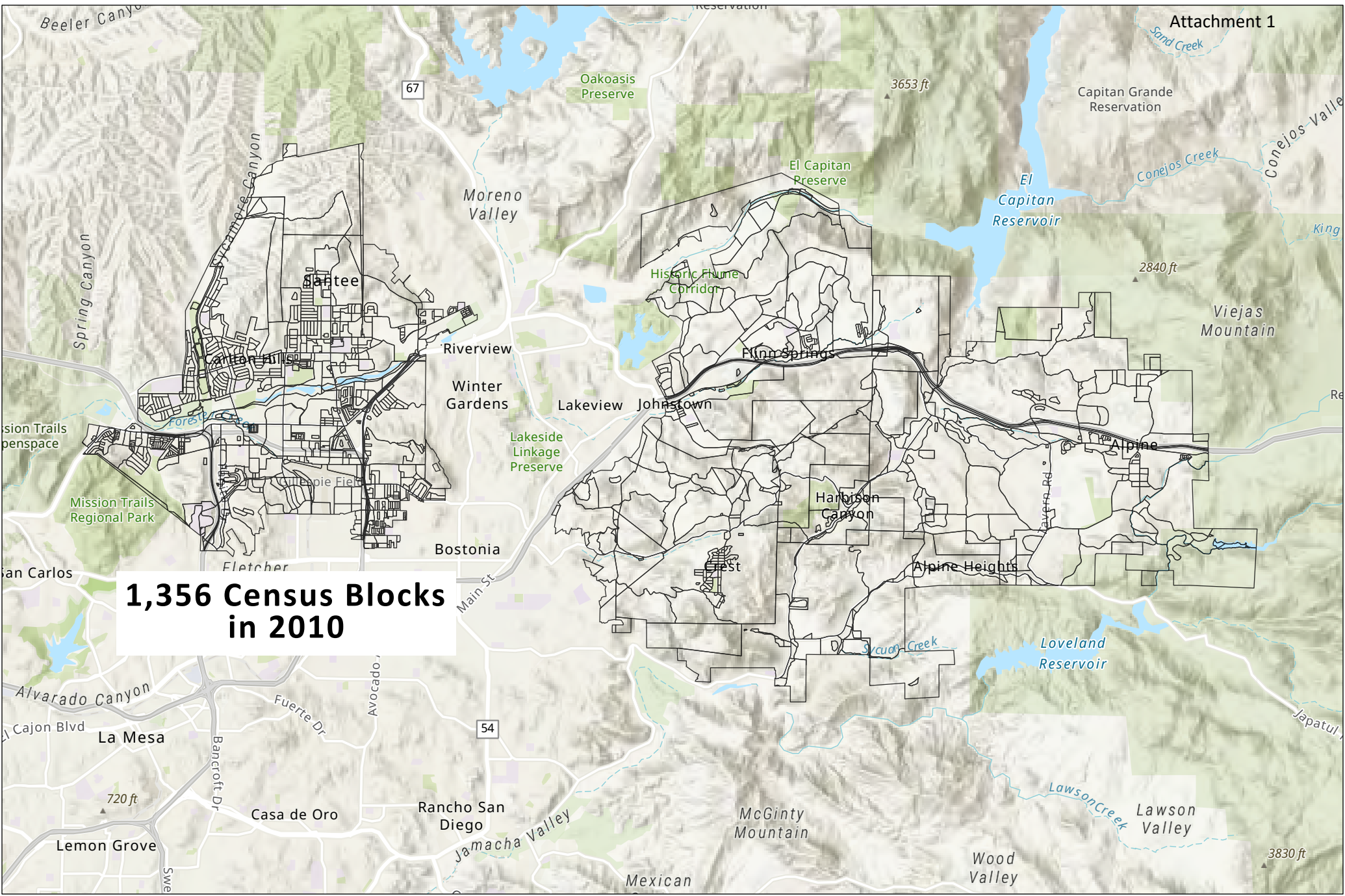
Maps and populations tables for each option are attached, as well as a map showing the difference in changes for Options One and Two.


The Board agreed with the refined options as presented by staff and set two public hearings for February 16, 2022 and March 16, 2022 to receive public input. Without significant public comment, the Board may adopt its preferred plan at the second public hearing. Changes to voter division boundaries must be submitted to the Registrar of Voters by April 17, 2022.

RECOMMENDATION(S):

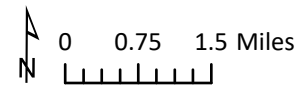
1. Hear staff report on two redistricting options developed for public input.
2. Open public hearing to receive comments on the proposed redistricting options; close public hearing. No action is required at this meeting; a second public hearing is scheduled for March 16, 2022.

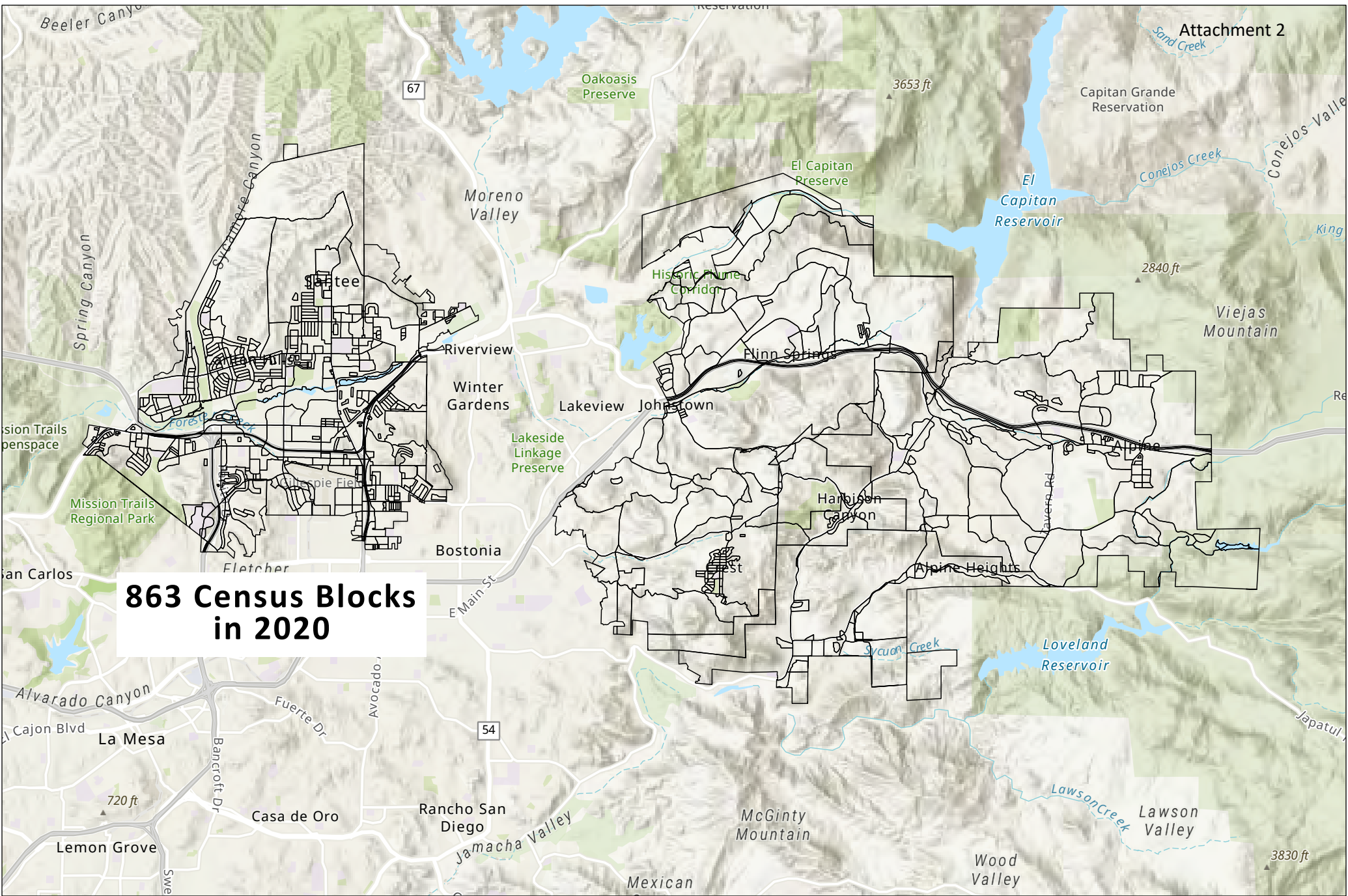
¹ Total percent deviation is calculated by adding the lowest deviation to the highest deviation.




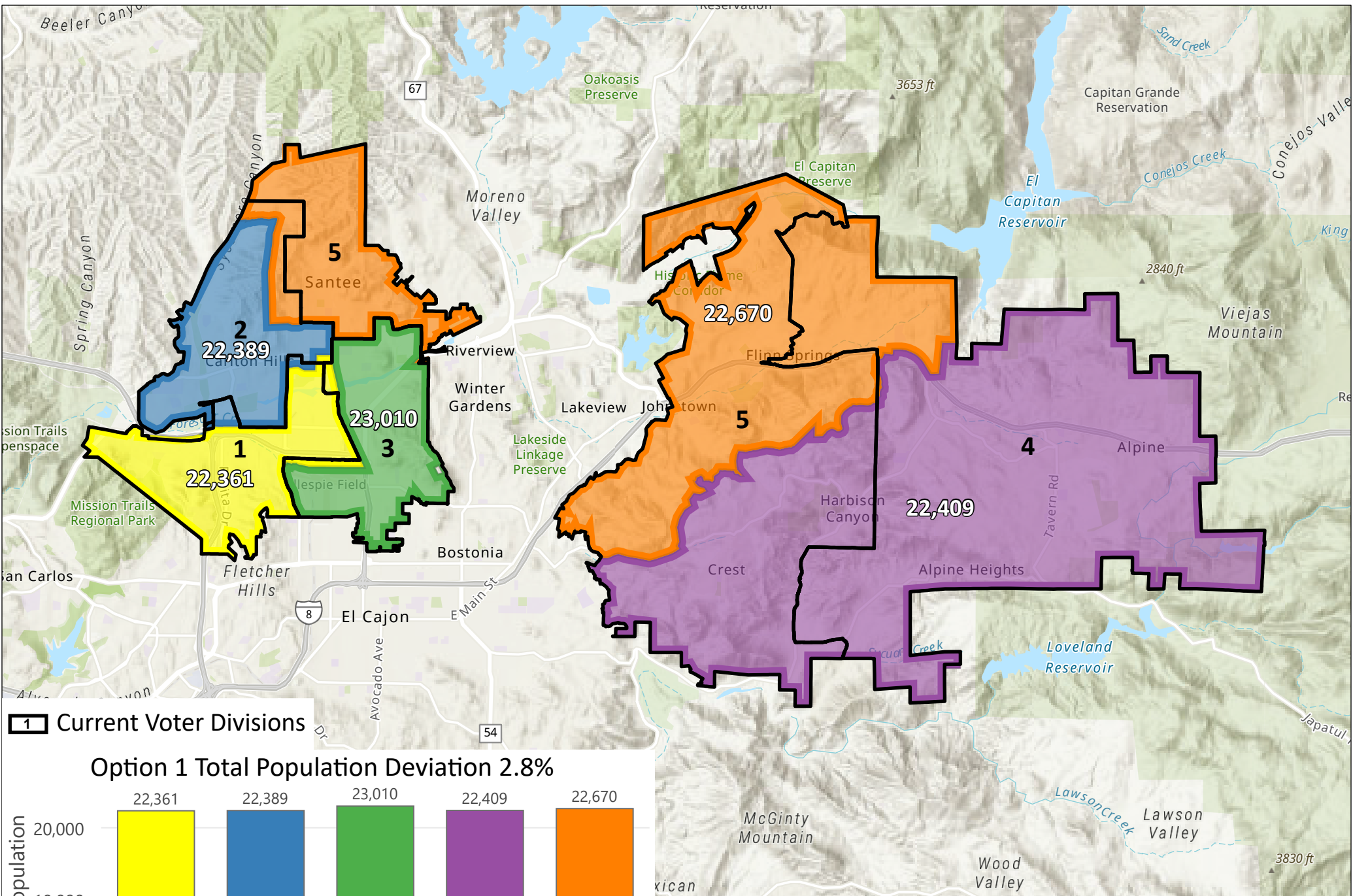
 2010 Census Blocks

2010 Census Blocks

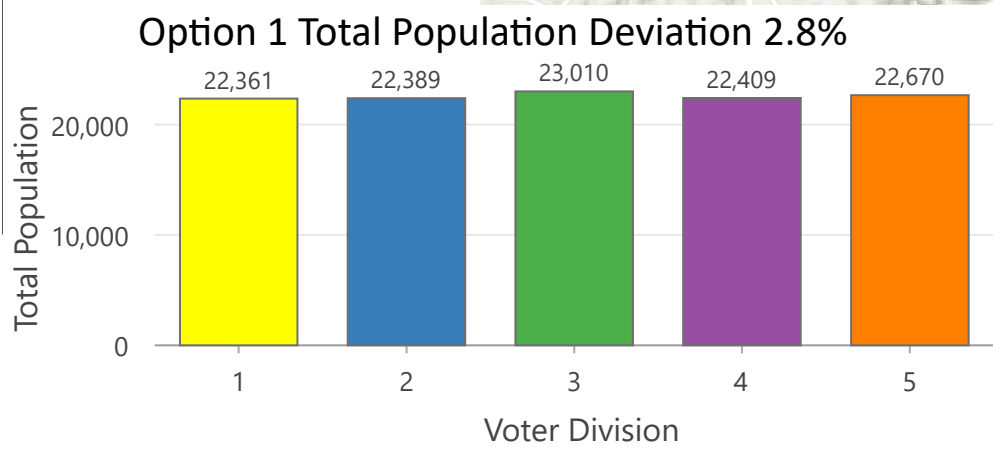




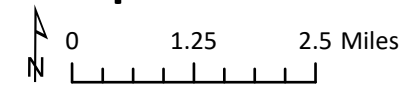
 2020 Census Blocks





1 Current Voter Divisions

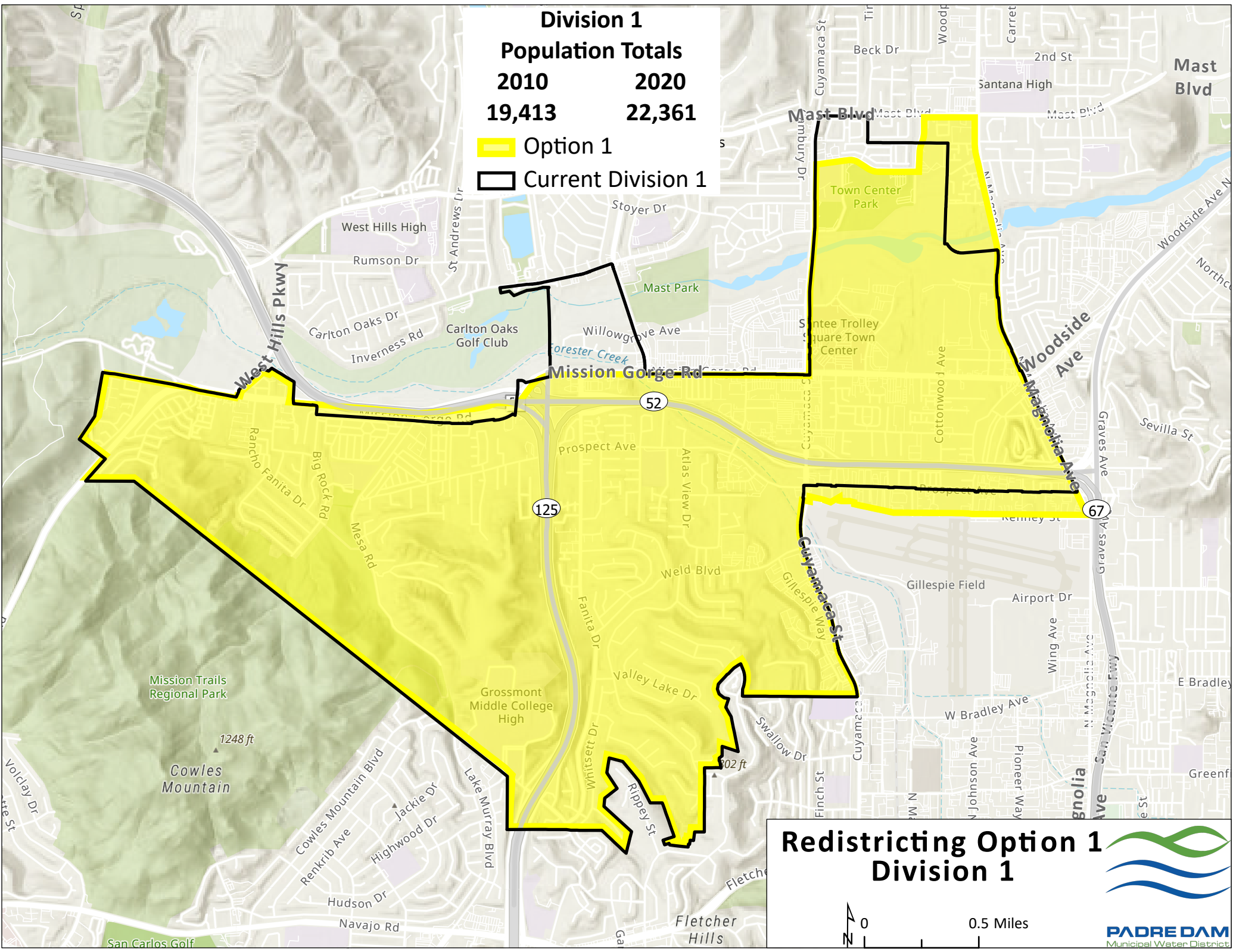


Current Voter Divisions and Redistricting Option 1




Division 1
Population Totals
2010 2020
19,413 22,361

 **Option 1**
 **Current Division 1**




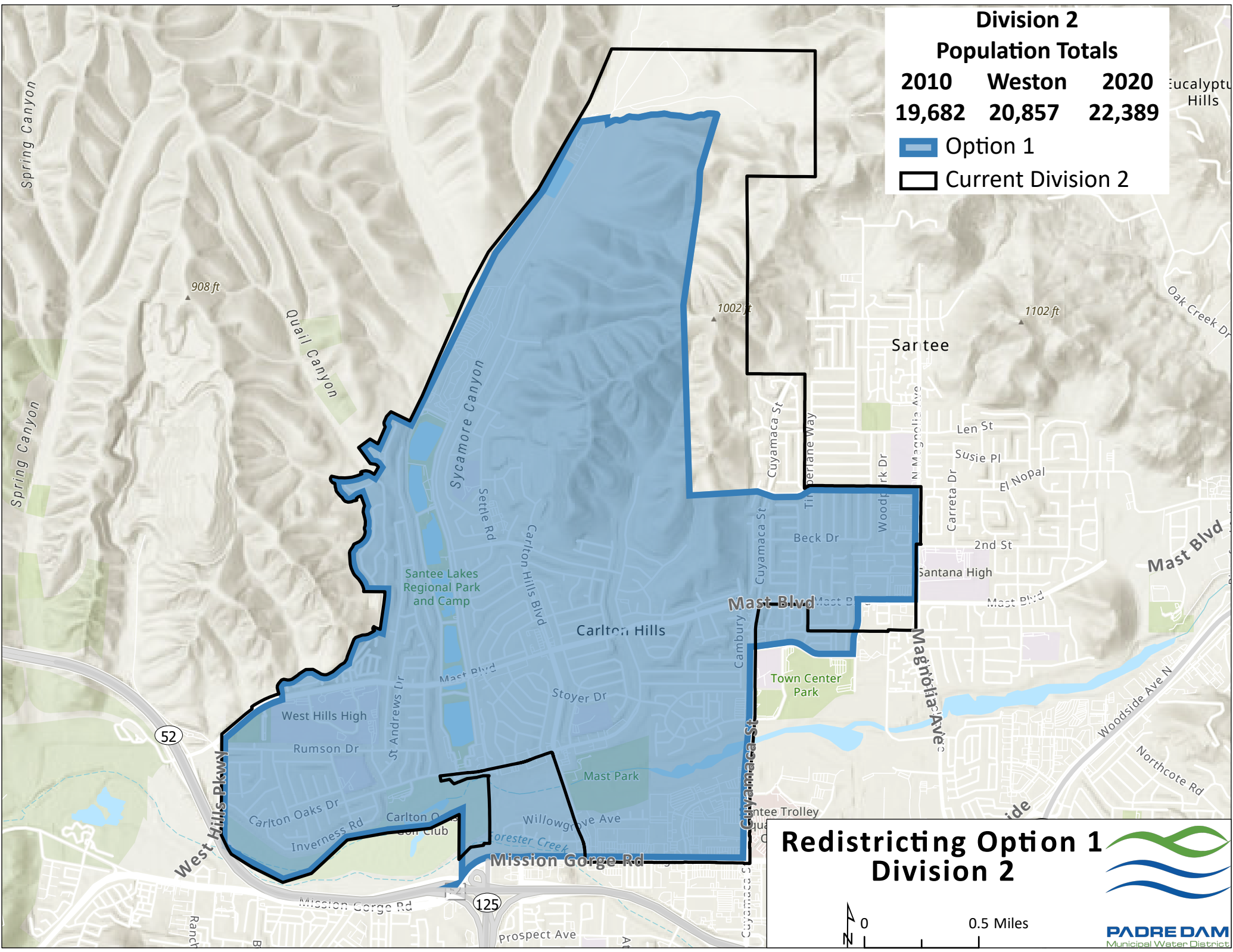
Redistricting Option 1
Division 1



PADRE DAM
Municipal Water District

0 0.5 Miles





Division 2			
Population Totals			
2010	Weston	2020	
19,682	20,857	22,389	
<div>Option 1</div>			
<div>Current Division 2</div>			

Redistricting Option 1

Division 2

PADRE DAM

Municipal Water District



0

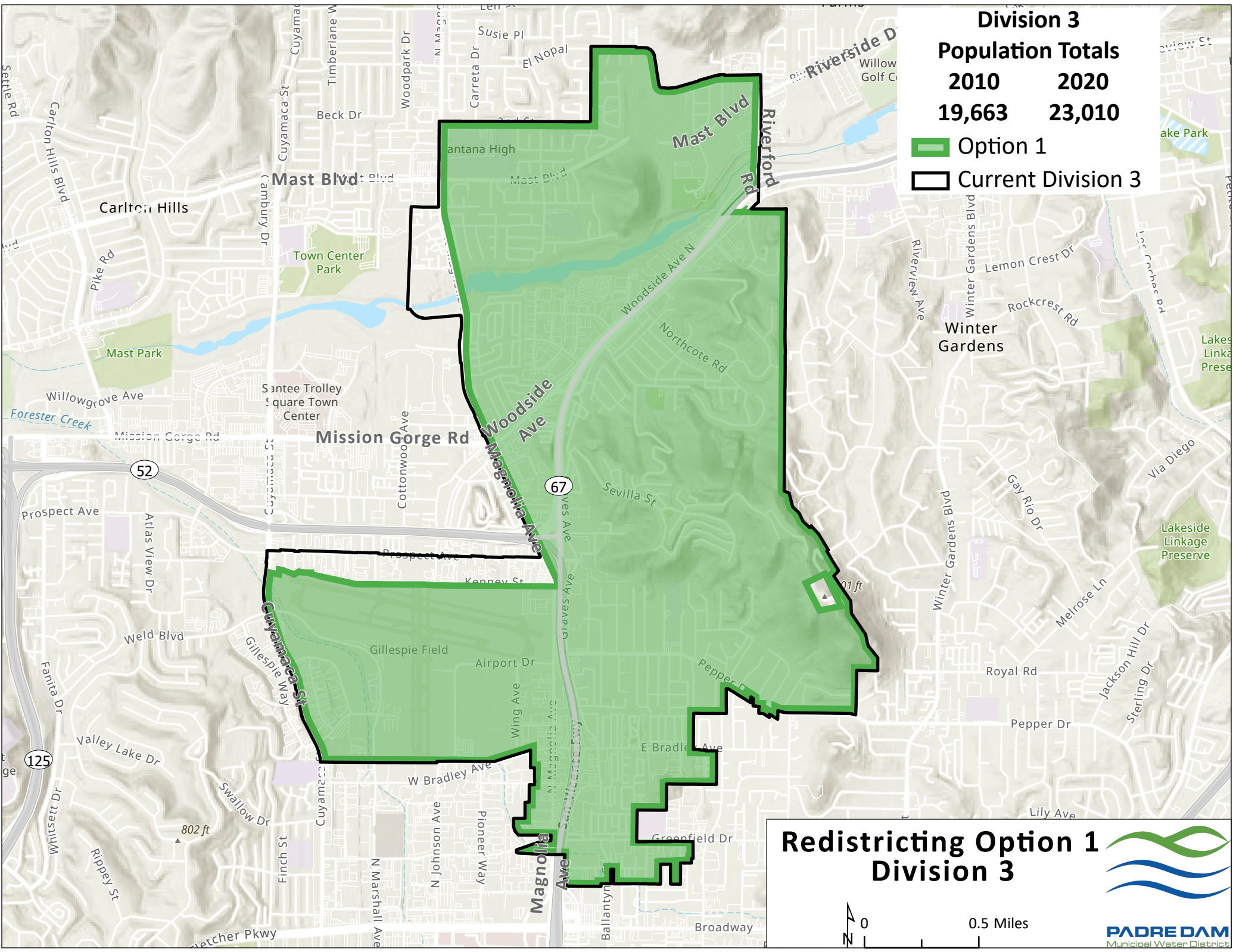
0.5 Miles

N


0

Division 3
Population Totals
2010 2020
19,663 23,010

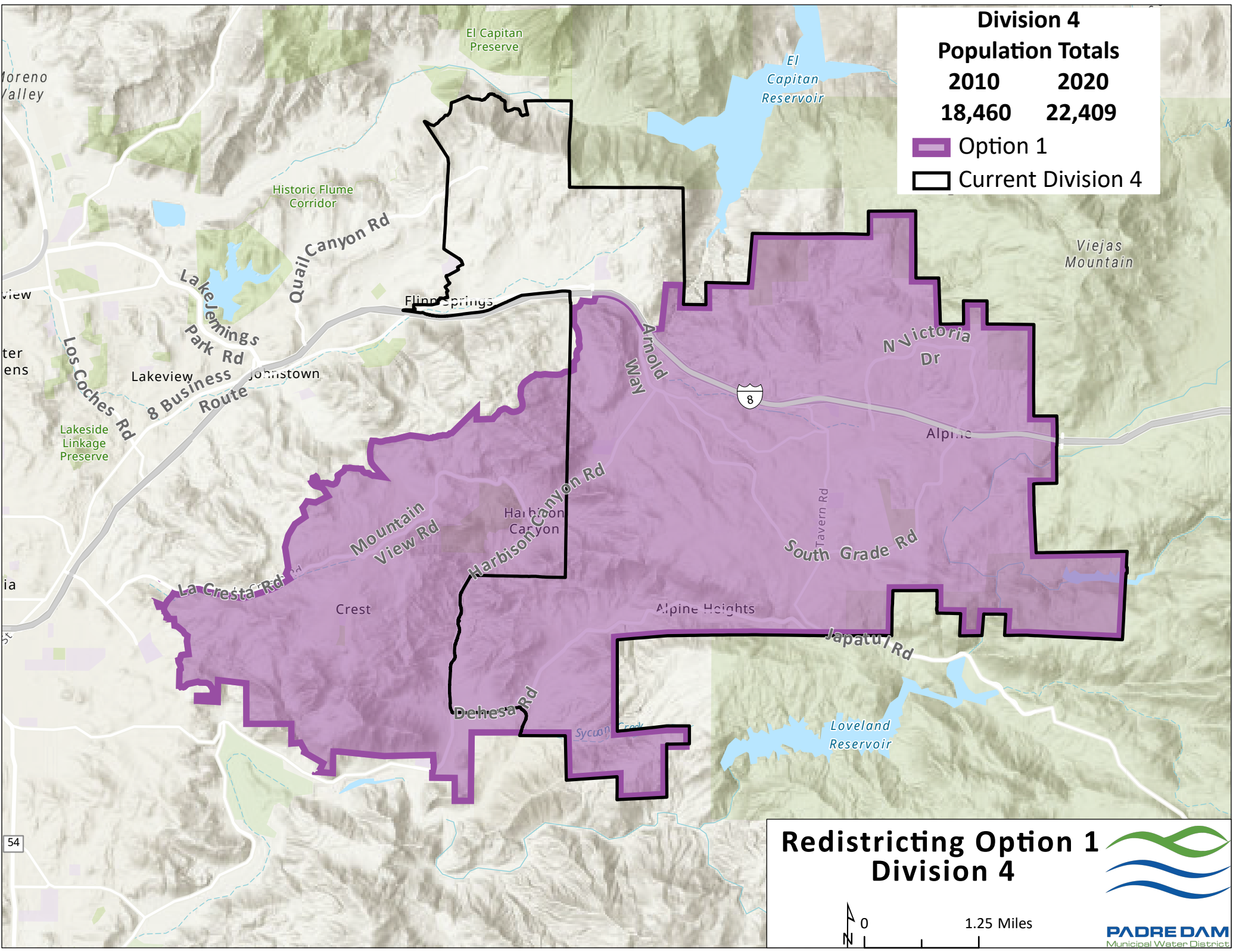
-  Option 1
-  Current Division 3



Redistricting Option 1
Division 3



PADRE DAM
Municipal Water District



Division 4
Population Totals

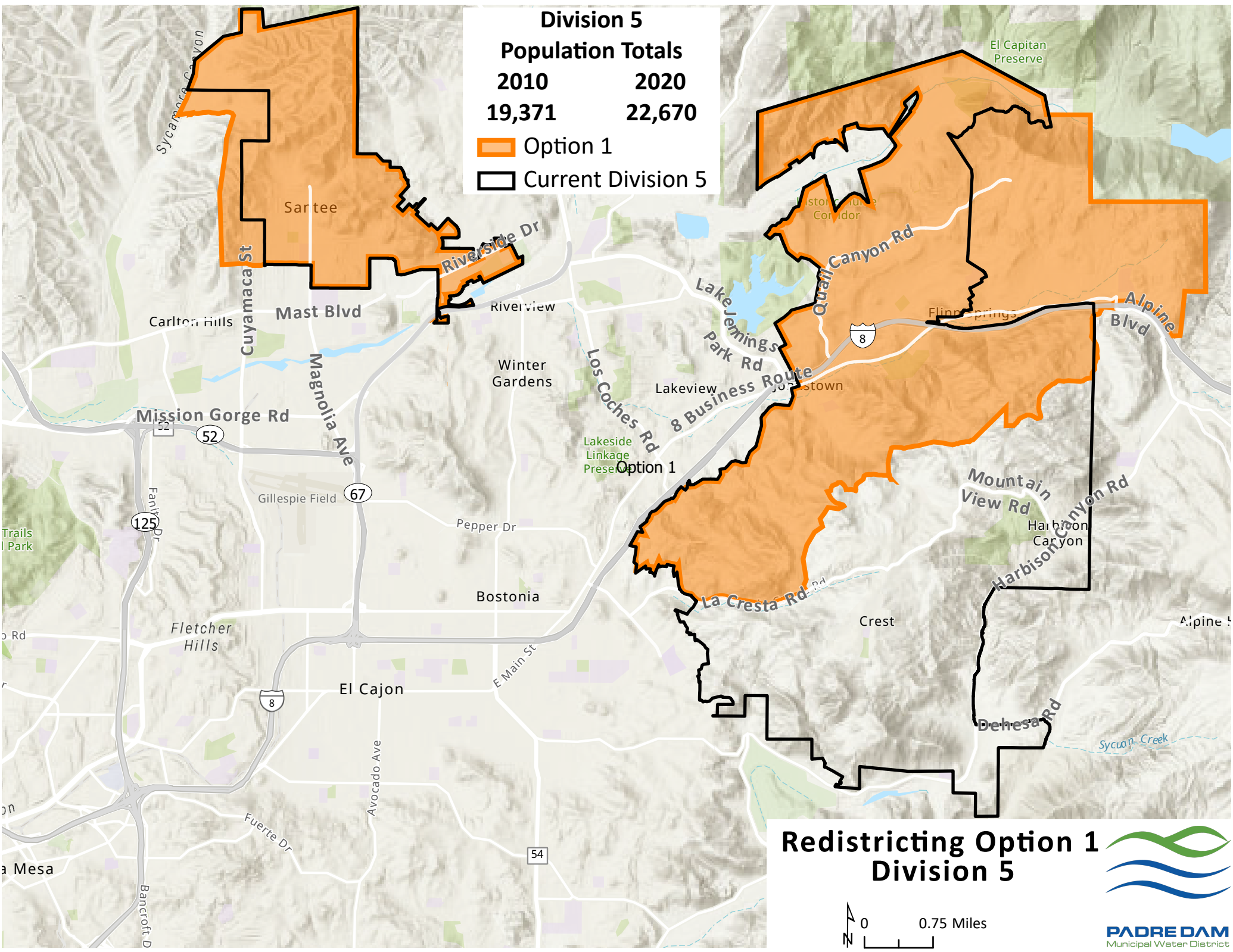
2010	2020
18,460	22,409

Option 1 (purple outline)
Current Division 4 (black outline)

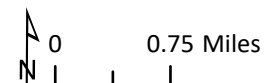
Redistricting Option 1
Division 4

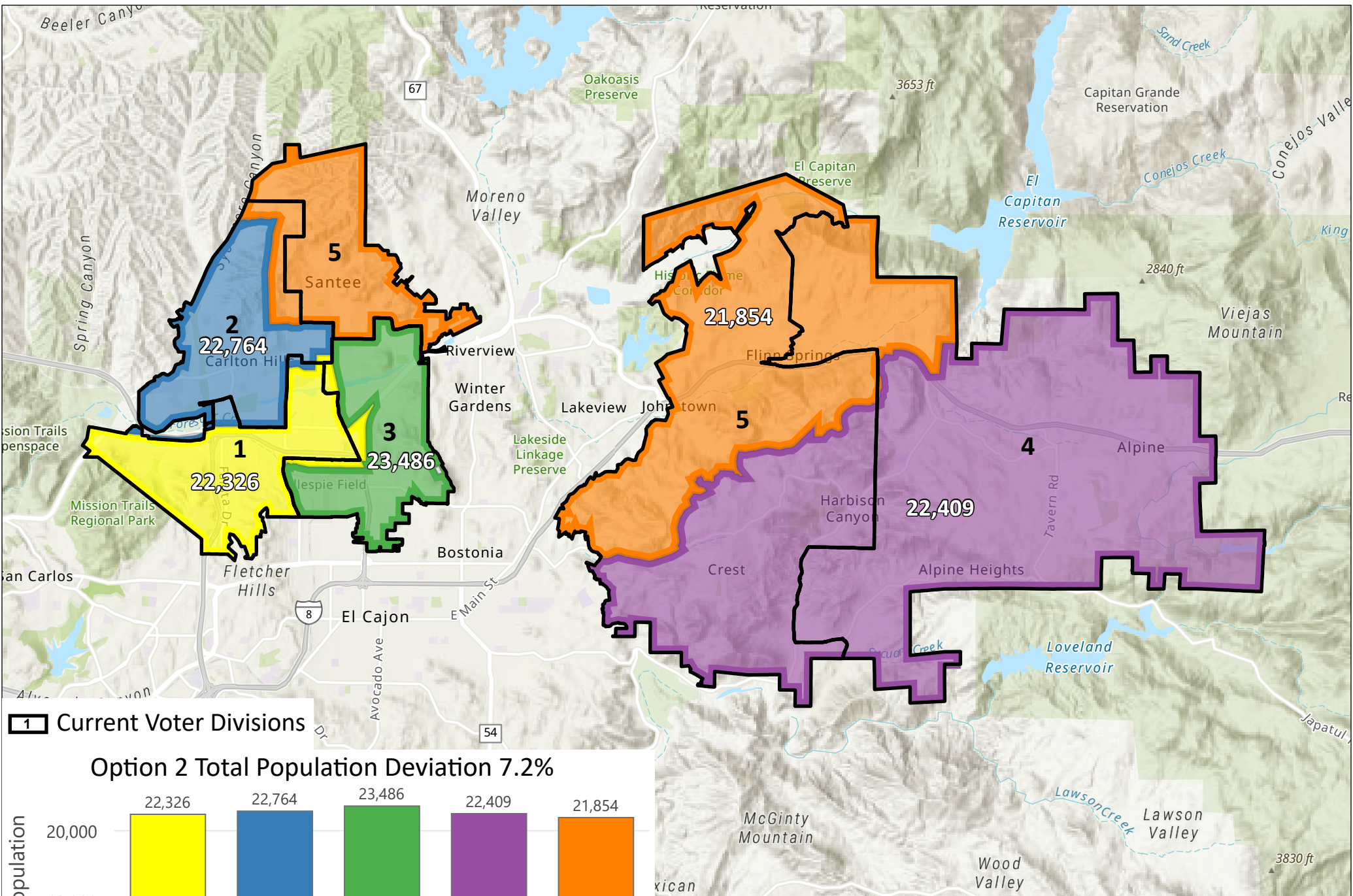
0 1.25 Miles

PADRE DAM
Municipal Water District

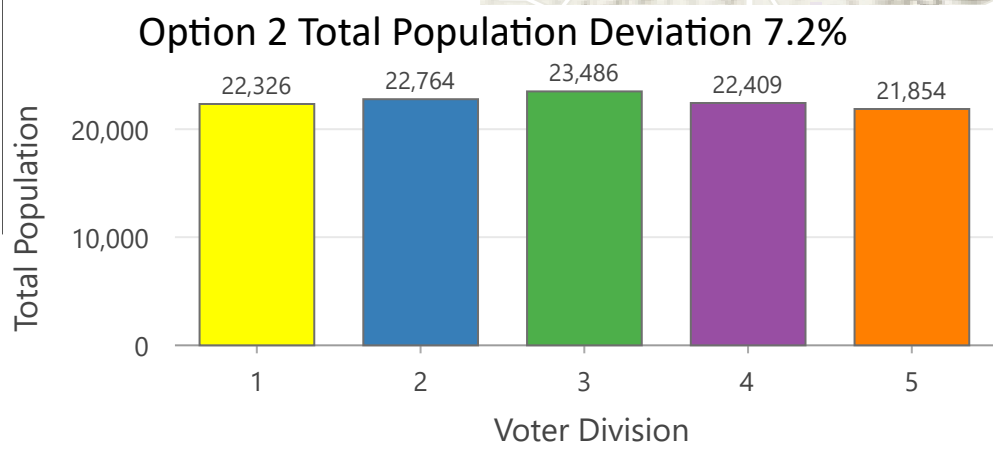


Redistricting Option 1 Division 5

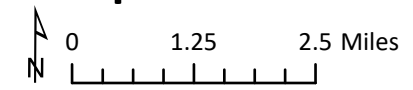


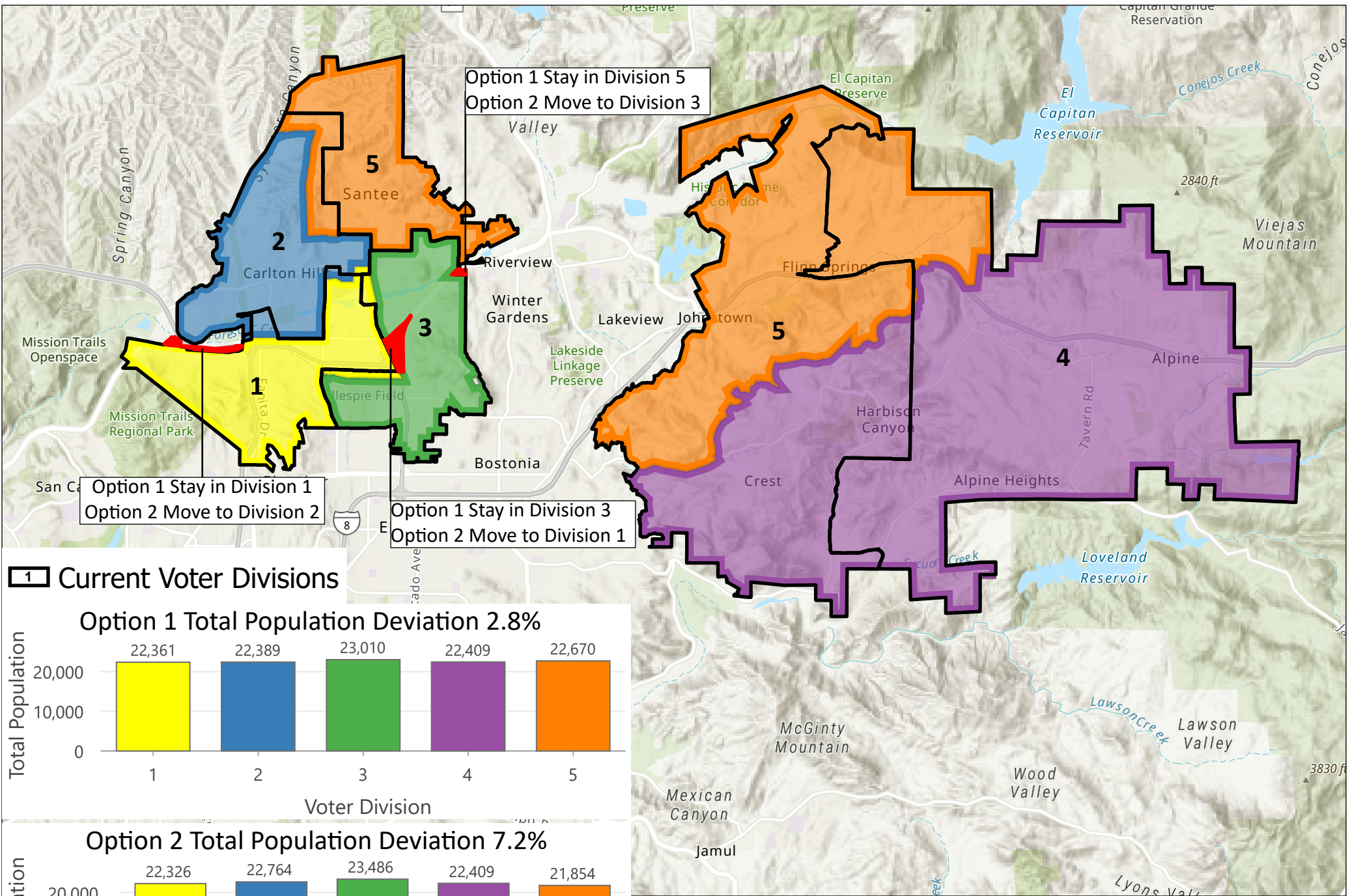


1 Current Voter Divisions

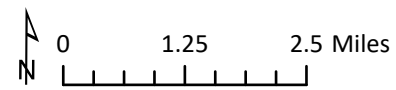


Current Voter Divisions and Redistricting Option 2





Difference Between Redistricting Option 1 and Option 2





BOARD AGENDA REPORT

Meeting Date: 02-16-2022
Dept. Head: Karen Jassoy
Submitted by: Karen Jassoy
Department: Finance
Approved by: Allen Carlisle, CEO/GM

SUBJECT: COST OF SERVICE STUDY UPDATE

RECOMMENDATION(S):

Hear Project update from John Wright of Raftelis.

ALTERNATIVE(S):

n/a

ATTACHMENT(S):

None

FUNDING:

Requested amount: n/a

Budgeted amount:

Are funds available? ☐ Yes ☐ No

Project cost to date:

PRIOR BOARD/COMMITTEE CONSIDERATION:

STRATEGIC PLAN IMPLEMENTATION:

This agenda item is consistent with the District's Strategic Plan and meets one or more of the following Strategic Goals: Provide safe, reliable water, recycled water and sewer services; Ensure fiscal health and competitively sustainable rates; Enhance customer communications and education; Increase water, wastewater and energy independence; Maintain workforce excellence; Expand park and recreation opportunities.

Reviewed by:

Dept Head ☒
Finance ☐
Legal Counsel ☐
Standard Form ☐

Action Required:

Motion ☐
Resolution ☐
Ordinance ☐
None ☒

Policy Updates:

Rules & Regulations ☐
Standard Practices & Policies ☐

Action Taken:

As Recommended _____
Reso/Ord. No. _____
Other _____

EXECUTIVE SUMMARY:

Raftelis Financial Consultants, Inc. (Raftelis) was engaged to perform a comprehensive Cost of Service and Rate Study (COSS or Project) for the District's utility operations. The COSS will provide an independent assessment of all District costs and properly allocate them to each operation's rates and charges based on sound cost of service principles. A public hearing on proposed rates will be held on June 15, 2022.

At the February 2, 2022 board meeting, John Wright from Raftelis provided an overview of the Project and update on Project tasks. John will report on preliminary findings at the February 16 board meeting.

RECOMMENDATION(S):

Hear Project update from John Wright of Raftelis.



BOARD AGENDA REPORT

Meeting Date: 02-16-2022
Dept. Head: Allen Carlisle
Submitted by: Amy Pederson
Department: Board Secretary
Approved by: Allen Carlisle, CEO/GM

SUBJECT: CONSIDERATION OF SETTING A NEW TIME FOR HOLDING REGULAR MEETINGS OF THE BOARD OF DIRECTORS

RECOMMENDATION(S):

Consider changing the start time of the Board's regular meetings to a later time; action is at the discretion of the Board.

ALTERNATIVE(S):

Table discussion to future meeting.

ATTACHMENT(S):

None

FUNDING:

Requested amount: n/a

Budgeted amount:

Are funds available? ☐ Yes ☐ No

Project cost to date:

PRIOR BOARD/COMMITTEE CONSIDERATION:

STRATEGIC PLAN IMPLEMENTATION:

This agenda item is consistent with the District's Strategic Plan and meets one or more of the following Strategic Goals: Provide safe, reliable water, recycled water and sewer services; Ensure fiscal health and competitively sustainable rates; Enhance customer communications and education; Increase water, wastewater and energy independence; Maintain workforce excellence; Expand park and recreation opportunities.

Reviewed by:

Dept Head ☒
Finance ☐
Legal Counsel ☐
Standard Form ☐

Action Required:

Motion ☒
Resolution ☐
Ordinance ☐
None ☐

Policy Updates:

Rules & Regulations ☐
Standard Practices ☐
& Policies

Action Taken:

As Recommended _____
Reso/Ord. No. _____
Other _____

EXECUTIVE SUMMARY:

President Pommering requested staff agendize this topic for Board consideration.

If there is a desire by the Board to change the start time of its regular meeting schedule, the Board will need to adopt an ordinance amending Standard Practices and Policies Section 14, District Administration Policy, at a future meeting to effectuate the change.

RECOMMENDATION(S):

Consider changing the start time of the Board's regular meetings to a later time; action is at the discretion of the Board.



AGENDA ITEM 12

CONSIDERATION OF SETTING A NEW TIME FOR HOLDING REGULAR MEETINGS OF THE BOARD OF DIRECTORS

Written Public Comments received until 12:30pm

February 16, 2022

Board Meeting

Jessica Reifschneider

From: noreply@civicplus.com
Sent: Wednesday, February 16, 2022 12:36 PM
To: Amy Pederson; Jessica Reifschneider
Subject: Online Form Submittal: Written Public Comment

If you are having problems viewing this HTML email, click to view a [Text version](#).

Written Public Comment

Meeting Date:* 2/16/22
Name:* Evlyn Andrade
Company:
Address:*
City/State/Zip:* Lemon Grove
Phone
Number:*
Email:
Please Select [Public comment for a specific agenda item V]
One:*
Agenda Item 12
Number (If
Applicable):
Comment:* Please move the meeting time to 4pm so that all members are able to attend. It does not make sense, nor is it fair/right to penalize a board member due to their day job. Moving the meeting time by 30 mins is not too much to ask.

* indicates required fields.

View any uploaded files by [signing in](#) and then proceeding to the link below:
<http://www.padredam.org/Admin/FormHistory.aspx?SID=10440>

The following form was submitted via your website: Written Public Comment

Meeting Date:: 2/16/22

Name:: Evlyn Andrade

Company::

Address::

City/State/Zip:: Lemon Grove

Phone Number::

Email::

Please Select One:: Public comment for a specific agenda item

Agenda Item Number (If Applicable): : 12

Comment:: Please move the meeting time to 4pm so that all members are able to attend. It does not make sense, nor is it fair/right to penalize a board member due to their day job. Moving the meeting time by 30 mins is not too much to ask.

Additional Information:

Form submitted on: 2/16/2022 12:35:38 PM

Submitted from IP Address:

Referrer Page: No Referrer - Direct Link

Form Address: <http://www.padredam.org/Forms.aspx?FID=85>

Jessica Reifschneider

From: noreply@civicplus.com
Sent: Tuesday, February 15, 2022 1:19 PM
To: Amy Pederson; Jessica Reifschneider
Subject: Online Form Submittal: Written Public Comment

If you are having problems viewing this HTML email, click to view a [Text version](#).

Written Public Comment

Meeting Date:* 2/16/2022
Name:* Carson
Company:
Address:*
City/State/Zip:* La Mesa, CA 91942
Phone
Number:*
Email:
Please Select One:* [Public comment for a specific agenda item V]
Agenda Item Number (If Applicable): 12
Comment:* Please keep the meeting date of 3:30 PM the same. It is not fair that a member of the board can get elected and change the structure of board meetings to fit her personal needs, this should be some thing that she was aware of and adjusted her own schedule to rather than change it for everyone.

* indicates required fields.

View any uploaded files by [signing in](#) and then proceeding to the link below:
<http://www.padredam.org/Admin/FormHistory.aspx?SID=10435>

The following form was submitted via your website: Written Public Comment

Meeting Date:: 2/16/2022

Name:: Carson

Company::

Address::

City/State/Zip:: La Mesa, CA 91942

Phone Number::

Email::

Please Select One:: Public comment for a specific agenda item

Agenda Item Number (If Applicable): : 12

Comment:: Please keep the meeting date of 3:30 PM the same. It is not fair that a member of the board can get elected and change the structure of board meetings to fit her personal needs, this should be some thing that she was aware of and adjusted her own schedule to rather than change it for everyone.

Additional Information:

Form submitted on: 2/15/2022 1:18:30 PM

Submitted from IP Address:

Referrer Page: <https://www.eastcountymagazine.org/>

Form Address: <http://www.padredam.org/Forms.aspx?FID=85>

Amy Pederson

From: Samantha Hurst <shurst@health.ucsd.edu>
Sent: Saturday, February 12, 2022 2:09 PM
To: Amy Pederson
Subject: Padre Dam Waterboard Meeting February 16, 2022

Dear Board Secretary Pederson,

I see that on your Board Meeting agenda for February 16, you have included an item (#12) you are taking in to consideration the opportunity to change the start time of the Board's regular meetings to a later time than 3:30 pm.

I do hope you will consider this change thoughtfully and with regard to those of us who are professionals and cannot participate in meetings that are scheduled during typical work hours for many. As a resident of Santee (Weston Development) and an engaged citizen ... I believe the board would benefit from a better flow of exchange and input from residents like myself. This can easily be achieved by making meeting hours at a time when the majority can attend ... and not just a few.

Samantha Hurst, PhD, MA
UCSD | Herbert Wertheim School of Public Health and Human Longevity Science

La Jolla, CA 92093-0725

Jessica Reifschneider

From: noreply@civicplus.com
Sent: Tuesday, February 15, 2022 9:05 PM
To: Amy Pederson; Jessica Reifschneider
Subject: Online Form Submittal: Written Public Comment

If you are having problems viewing this HTML email, click to view a [Text version](#).

Written Public Comment

Meeting Date:* February 16, 2022
Name:* Christina Marcoux
Company:
Address:*
City/State/Zip:* Santee
Phone
Number:*
Email:
Please Select [Public comment for a specific agenda item V]
One:*
Agenda Item 12
Number (If
Applicable):
Comment:* Meetings of the board need to be adjusted to accommodate all elected members of the board and the public they serve. Most homeowners who are paying their water bill work and are unable to be present at a 3:30pm meeting time. The fact that this issue has not been addressed yet by the board is suspicious and we demand the right for our elected representatives and ourselves to have a reasonable start time for these meetings to encourage public participation.

* indicates required fields.

View any uploaded files by [signing in](#) and then proceeding to the link below:
<http://www.padredam.org/Admin/FormHistory.aspx?SID=10436>

The following form was submitted via your website: Written Public Comment

Meeting Date:: February 16, 2022

Name:: Christina Marcoux

Company::

Address::

City/State/Zip:: Santee

Phone Number::

Email::

Please Select One:: Public comment for a specific agenda item

Agenda Item Number (If Applicable): : 12

Comment:: Meetings of the board need to be adjusted to accommodate all elected members of the board and the public they serve. Most homeowners who are paying their water bill work and are unable to be present at a 3:30pm meeting time. The fact that this issue has not been addressed yet by the board is suspicious and we demand the right for our elected representatives and ourselves to have a reasonable start time for these meetings to encourage public participation.

Additional Information:

Form submitted on: 2/15/2022 9:05:16 PM

Submitted from IP Address:

Referrer Page: No Referrer - Direct Link

Form Address: <http://www.padredam.org/Forms.aspx?FID=85>

Jessica Reifschneider

From: noreply@civicplus.com
Sent: Wednesday, February 16, 2022 11:35 AM
To: Amy Pederson; Jessica Reifschneider
Subject: Online Form Submittal: Written Public Comment

If you are having problems viewing this HTML email, click to view a [Text version](#).

Written Public Comment

Meeting Date:* 2/16/22
Name:* Eugene Mullaly
Company: retired
Address:*
City/State/Zip:* San Diego, CA
Phone Number:*

Email:
Please Select One:* [Public comment (not related to an item on the agenda) V]
Agenda Item Number (If Applicable): Meeting start time
Comment:* Common guys. You're lucky to have bright, attractive woman like Susan Till on the Board. She adds a whole new dimension of depth to your way of looking at things. Change the start time so she can attend.

* indicates required fields.

View any uploaded files by [signing in](#) and then proceeding to the link below:
<http://www.padredam.org/Admin/FormHistory.aspx?SID=10439>

The following form was submitted via your website: Written Public Comment

Meeting Date:: 2/16/22

Name:: Eugene Mullaly

Company:: retired

Address::

City/State/Zip:: San Diego, CA

Phone Number::

Email::

Please Select One:: Public comment (not related to an item on the agenda)

Agenda Item Number (If Applicable): : Meeting start time

Comment:: Common guys. You're lucky to have bright, attractive woman like Susan Till on the Board. She adds a whole new dimension of depth to your way of looking at things. Change the start time so she can attend.

Additional Information:

Form submitted on: 2/16/2022 11:34:32 AM

Submitted from IP Address:

Referrer Page: No Referrer - Direct Link

Form Address: <http://www.padredam.org/Forms.aspx?FID=85>

Jessica Reifschneider

From: noreply@civicplus.com
Sent: Wednesday, February 16, 2022 10:18 AM
To: Amy Pederson; Jessica Reifschneider
Subject: Online Form Submittal: Written Public Comment

If you are having problems viewing this HTML email, click to view a [Text version](#).

Written Public Comment

Meeting Date:* February 16, 2022
Name:* Chris Pearson
Company:
Address:*
City/State/Zip:* Spring Valley
Phone
Number:*
Email:
Please Select [Public comment (not related to an item on the agenda) V]
One:*
Agenda Item
Number (If
Applicable):
Comment:* The East County Times states that you are not willing to change the start time from 3:30 to 4pm to accommodate a Marine who is a school teacher that can't get there until 4pm after school ends. Why not? Are you all Navy vets who don't like Marines? C'mon. Change the meeting time. Push it back a 1/2 hour.

* indicates required fields.

View any uploaded files by [signing in](#) and then proceeding to the link below:
<http://www.padredam.org/Admin/FormHistory.aspx?SID=10437>

The following form was submitted via your website: Written Public Comment

Meeting Date:: February 16, 2022

Name:: Chris Pearson

Company::

Address::

City/State/Zip:: Spring Valley

Phone Number::

Email::

Please Select One:: Public comment (not related to an item on the agenda)

Agenda Item Number (If Applicable): :

Comment:: The East County Times states that you are not willing to change the start time from 3:30 to 4pm to accommodate a Marine who is a school teacher that can't get there until 4pm after school ends. Why not? Are you all Navy vets who don't like Marines? C'mon. Change the meeting time. Push it back a 1/2 hour.

Additional Information:

Form submitted on: 2/16/2022 10:18:13 AM

Submitted from IP Address:

Referrer Page: <https://www.eastcountymagazine.org/>

Form Address: <http://www.padredam.org/Forms.aspx?FID=85>

Jessica Reifschneider

From: noreply@civicplus.com
Sent: Wednesday, February 16, 2022 10:21 AM
To: Amy Pederson; Jessica Reifschneider
Subject: Online Form Submittal: Written Public Comment

If you are having problems viewing this HTML email, click to view a [Text version](#).

Written Public Comment

Meeting Date:* February 16, 2022
Name:* Chris Pearson
Company:
Address:*
City/State/Zip:* Spring Valley
Phone Number:*
Email:
Please Select One:* [Public comment for a specific agenda item V]
Agenda Item Number 12
(If Applicable):
Comment:* Please push the start time back 30 minutes to accommodate a teacher who has to teach until 3pm and can't get to the meetings until 4. This is silly.

* indicates required fields.

View any uploaded files by [signing in](#) and then proceeding to the link below:
<http://www.padredam.org/Admin/FormHistory.aspx?SID=10438>

The following form was submitted via your website: Written Public Comment

Meeting Date:: February 16, 2022

Name:: Chris Pearson

Company::

Address::

City/State/Zip:: Spring Valley

Phone Number::

Email::

Please Select One:: Public comment for a specific agenda item

Agenda Item Number (If Applicable): : 12

Comment:: Please push the start time back 30 minutes to accommodate a teacher who has to teach until 3pm and can't

get to the meetings until 4. This is silly.

Additional Information:

Form submitted on: 2/16/2022 10:20:34 AM

Submitted from IP Address:

Referrer Page: <https://www.eastcountymagazine.org/>

Form Address: <http://www.padredam.org/Forms.aspx?FID=85>



BOARD AGENDA REPORT

Meeting Date: 02-16-22
Dept. Head: Karen Jassoy, CFO
Submitted by: Karen Jassoy, CFO
Department: Finance
Approved by: Allen Carlisle, CEO/GM

SUBJECT: SEMI-ANNUAL REPORT ON THE FIVE YEAR BUSINESS PLAN, FOR THE SIX MONTHS ENDED 12/31/21

RECOMMENDATION(S):

Hear a report on the financial highlights for the first half of FY '22; no action required.

ALTERNATIVE(S):

Table report to a future meeting.

ATTACHMENT(S):

1. Performance Indicators at December 31, 2021
2. Statements of Operations as of December 31, 2021

FUNDING:

Requested amount: None

Budgeted amount:

Are funds available? ☐ Yes ☐ No

Project cost to date:

PRIOR BOARD/COMMITTEE CONSIDERATION:

STRATEGIC PLAN IMPLEMENTATION:

This agenda item is consistent with the District's Strategic Plan & meets one or more of the following Strategic Goals: Provide safe, reliable water, recycled water and sewer services; Ensure fiscal health and competitively sustainable rates; Enhance customer communications and education; Increase water, wastewater and energy independence; Maintain workforce excellence; Expand park and recreation opportunities.

Reviewed by:	Action Required:	Policy Updates:	Action Taken:
Dept Head <input checked="" type="checkbox"/>	Motion <input type="checkbox"/>	Rules & Regulations <input type="checkbox"/>	As Recommended _____
Finance <input type="checkbox"/>	Resolution <input type="checkbox"/>	Standard Practices & Policies <input type="checkbox"/>	Reso/Ord. No. _____
Legal <input type="checkbox"/>	Ordinance <input type="checkbox"/>		Other _____
Standard Form <input type="checkbox"/>	None <input checked="" type="checkbox"/>		

DESCRIPTION:

The Five Year Business Plan (Plan), which covers Fiscal Years (FY) '18-'22, is a key planning instrument and road map to "Ensuring a Strong Future" for Padre Dam. The Plan requires staff to provide quarterly Performance Indicators, semi-annual financial updates and an annual presentation on all operations' performance. This agenda covers the first six months for year four of the Plan (July 1, 2021 – December 31, 2021).

PERFORMANCE INDICATORS

The Plan identifies the work to be performed and the related rates to produce necessary revenues to achieve the Plan's goals. The Plan holds staff accountable with established goals and performance measurements, the progress for which is shown by Qualitative and Quantitative Performance Indicators. **Attachment 1** shows these indicators and the status of each (for Qualitative: Not Started, On Task, Off Task or Completed/for Quantitative: Goal, Actual and % to Goal).

FINANCIAL UPDATE

Attachment 2 shows the Statement of Activities for each operation for the first six months of FY '22. For this period, combined District revenues were favorable to budget by \$2.0M; all operations other than Recycled Water contributed to this positive variance. Direct costs related to higher sales slightly offset this positive variance but lower than budgeted operating expenses more than offset that impact. Depreciation on the District's capital assets was in line with the budget. Non-operating activity, which includes Interest Income/Expense, and Gain/Loss on sale of fixed assets and investments, was unfavorable to budget mostly due to a loss on sale of investments; if these bonds were held to maturity there would not have been a loss but the investment advisor sold bonds early in order to take advantage of better returns. Overall, the combined change in net position was favorable by \$4.0M. The following provides more information about each operation's performance:

- **Potable Water Operation:** The budget for the Plan assumes consistent water sales over the five years. These budgeted sales volumes were based on an analysis of prior years, a slight bounce back in FY '17 and some future growth. Actual acre feet (AF) sold for the first six months of FY '22 was 5,311 AF, or 466 AF greater than budget, but 328 AF less than the prior year. July had the largest positive variance. Water sales revenue and total operating revenue were favorable to budget by \$1.2M (7%), and \$1.5M (6%) respectively. Water purchases were slightly higher due to the increased demand; purchases of \$8.9M exceeded budget by \$126K or 1%. Overall revenues available for operations exceeded budget by \$1.5M. Operating expenses were \$1.5M favorable to budget due to timing of budgeted expenditures while depreciation was slightly over budget (\$48K). Change in net position was favorable to budget by \$2.8M.
- **Recycled Water Operation:** Total operating revenues were \$113K or 4.3% unfavorable to budget primarily due slightly lower than budgeted sales; a total of 568 AF was sold through December compared to a budget of 571 AF. For comparison, sales were 72AF or 11% lower than the same period last year. Operating expenses and depreciation were favorable to budget by \$112K and \$92K respectively. After non-operating activity, overall change in net position for this operation was \$72K favorable to budget.
- **Sewer Operation:** The budget for the Plan also assumed consistent sewer volumes over the five years. These budgeted sales volumes were based on an analysis of prior years, a slight bounce back from increased water use in FY '17 and some future growth. Sewer revenue for this period was slightly higher than budget (\$268K or 2.7%). Sewer treatment was slightly under budget (\$25K or 1.1%). Operating expenses were under budget by \$630K while depreciation was over budget by \$49K. Overall change in net position was \$1,149,873 or \$987K favorable to budget.
- **Park Operation:** Park fee revenues were \$350K favorable to budget and direct costs were under budget by \$22K. Total operating expenses were \$658K favorable to budget. After non-operating activity and depreciation, overall change in net position for this operation was \$380K versus a budgeted loss of \$263K

The following summaries show revenues and expenses verses budget and fund balances verses targets. Attachment 2 shows this information in more detail. In advance of the fund balance rebalancing, staff paused the automatic transfer from Rate Stabilization Funds to Capital Replacement funds to prevent further disparity.

COMBINED			
	OPERATIONS		
	ACTUAL	BUDGET	DIFF
Total Operating Revenues	\$ 43.15	\$ 41.14	\$ 2.01
Total Direct Costs	(13.68)	(13.70)	0.02
Rev Available for Ops	29.48	27.44	2.04
Operating Expenses	(17.91)	(20.47)	2.57
Depreciation	(4.77)	(4.73)	(0.04)
Non-Op Rev/(Exp)	(0.86)	(0.33)	(0.53)
Change in Net Assets	\$ 5.94	\$ 1.90	\$ 4.03
	FUND BALANCES		
	ACTUAL		
Beginning Fund Balance	\$ 99.99		
Change in Net Assets	\$ 6.32		
Other Sources/Uses of Cash	\$ (9.29)		
Ending Fund Balance	\$ 97.01		
	Current	Board Min	Board Max
Rate Stabilization Fund	\$ 34.59	\$ 17.41	\$ 32.80
Capital Replacement Fund	\$ 26.61	\$ 17.68	\$ 28.66
Major CIP Fund	\$ 35.81	\$ 29.99	\$ 56.79
Total Designated Funds	\$ 97.01	\$ 65.09	\$ 118.25

POTABLE			
	OPERATIONS		
	ACTUAL	BUDGET	DIFF
Total Operating Revenues	\$ 26.95	\$ 25.45	\$ 1.50
Total Direct Costs	(10.52)	(10.50)	(0.02)
Rev Available for Ops	16.43	14.95	1.48
Operating Expenses	(9.05)	(10.55)	1.50
Depreciation	(2.95)	(2.91)	(0.05)
Non-Op Rev/(Exp)	(0.45)	(0.35)	(0.10)
Change in Net Assets	\$ 3.98	\$ 1.15	\$ 2.83
	FUND BALANCES		
	ACTUAL		
Beginning Fund Balance	\$ 51.16		
Change in Net Assets	\$ 3.98		
Other Sources/Uses of Cash	\$ (6.80)		
Ending Fund Balance	\$ 48.33		
	ACTUAL	BOARD MIN	BOARD MAX
Rate Stabilization Fund	\$ 20.54	\$ 10.32	\$ 19.03
Capital Replacement Fund	\$ 12.41	\$ 8.62	\$ 14.92
Major CIP Fund	\$ 15.39	\$ 16.72	\$ 34.72
Total Designated Funds	\$ 48.33	\$ 35.66	\$ 68.67

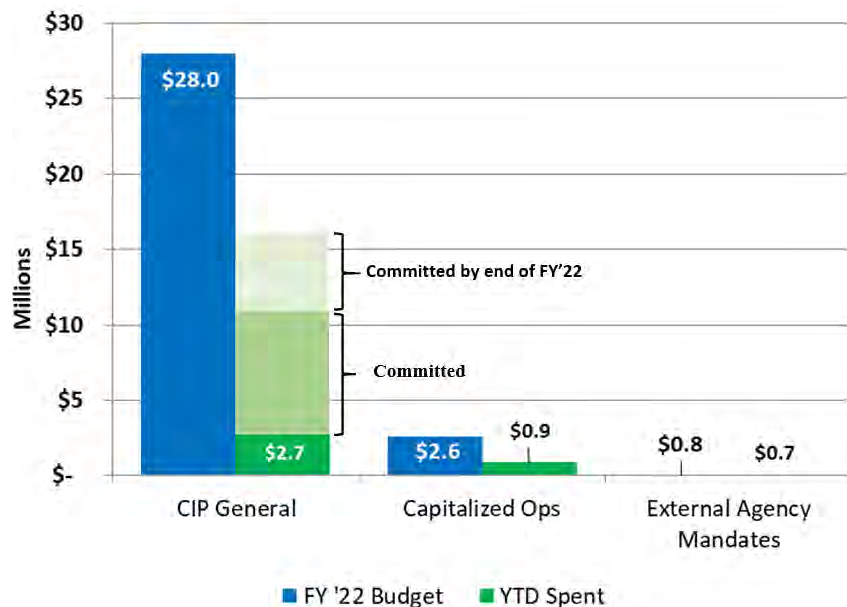
RECYCLED			
	OPERATIONS		
	ACTUAL	BUDGET	DIFF
Total Operating Revenues	\$ 2.49	\$ 2.60	\$ (0.11)
Total Direct Costs	-	-	-
Rev Available for Ops	2.49	2.60	(0.11)
Operating Expenses	(1.21)	(1.32)	0.11
Depreciation	(0.49)	(0.58)	0.09
Non-Op Rev/(Exp)	0.03	0.05	(0.02)
Change in Net Assets	\$ 0.81	\$ 0.74	\$ 0.07
FUND BALANCES			
	ACTUAL		
Beginning Fund Balance	\$ 18.52		
Change in Net Assets	\$ 0.81		
Other Sources/Uses of Cash	\$ (0.62)		
Ending Fund Balance	\$ 18.72		
	Current	Board Min	Board Max
Rate Stabilization Fund	\$ 1.54	\$ 0.79	\$ 1.56
Capital Replacement Fund	\$ 5.28	\$ 4.42	\$ 5.09
Major CIP Fund	\$ 11.90	\$ 3.17	\$ 4.97
Total Designated Funds	\$ 18.72	\$ 8.38	\$ 11.63

SEWER			
	OPERATIONS		
	ACTUAL	BUDGET	DIFF
Total Operating Revenues	\$ 10.02	\$ 9.74	\$ 0.27
Total Direct Costs	(3.00)	(3.03)	0.03
Rev Available for Ops	7.01	6.71	0.30
Operating Expenses	(5.25)	(5.88)	0.63
Depreciation	(0.71)	(0.67)	(0.05)
Non-Op Rev/(Exp)	0.10	0.09	0.02
Change in Net Assets	\$ 1.15	\$ 0.25	\$ 0.90
FUND BALANCES			
	ACTUAL		
Beginning Fund Balance	\$ 25.47		
Change in Net Assets	\$ 1.15		
Other Sources/Uses of Cash	\$ (1.45)		
Ending Fund Balance	\$ 25.16		
	Current	Board Min	Board Max
Rate Stabilization Fund	\$ 9.23	\$ 4.46	\$ 8.92
Capital Replacement Fund	\$ 7.41	\$ 3.69	\$ 7.38
Major CIP Fund	\$ 8.53	\$ 10.10	\$ 17.10
Total Designated Funds	\$ 25.16	\$ 18.25	\$ 33.40

PARK			
	OPERATIONS		
	ACTUAL	BUDGET	DIFF
Total Operating Revenues	\$ 3.70	\$ 3.35	\$ 0.35
Total Direct Costs	(0.16)	(0.18)	0.02
Rev Available for Ops	3.54	3.17	0.37
Operating Expenses	(2.40)	(2.72)	0.32
Depreciation	(0.61)	(0.57)	(0.04)
Non-Op Rev/(Exp)	(0.16)	(0.14)	(0.02)
Change in Net Assets	\$ 0.38	\$ (0.26)	\$ 0.64
FUND BALANCES			
	ACTUAL		
Beginning Fund Balance	\$ 4.84		
Change in Net Assets	\$ 0.38		
Other Sources/Uses of Cash	\$ (0.42)		
Ending Fund Balance	\$ 4.80		
	Current	Board Min	Board Max
Rate Stabilization Fund	\$ 3.29	\$ 1.84	\$ 3.29
Capital Replacement Fund	\$ 1.51	\$ 0.95	\$ 1.26
Major CIP Fund	\$ -	\$ -	\$ -
Total Designated Funds	\$ 4.80	\$ 2.79	\$ 4.55

Fiscal Year '22: Mid-Year Update for Capital Improvement Program (CIP)

The following chart shows CIP spending levels through the first two quarters of FY '22. Spending through the first half of FY '22 is lower than the budgeted amount due to a longer than anticipated lag in timing between construction commencement and progress billings from contractors for work completed and for the reasons described in detail below.



Looking forward over the next six months to the end of FY '22, it is anticipated the full budget will not be utilized and these unspent funds will be shifted to minimize future rate impacts. The description below provides some insight:

- Approximately \$8.1M, budgeted for FY'22, is currently committed towards the following projects: Contracted Valve Replacement (Construction), Cordial Road Pipeline (Construction), Quail Canyon Pressure Reducing Station (Construction), Grossmont Reservoir Refurbishment (Construction), Rios Canyon PS Surge Tank (Construction), Sewer CIPP & Manhole Rehabilitation (Construction), Pipeline Condition Assessment (Study), Interstate-8 Unencased Transmission Main Replacement (Design), and Inverted Sewer Siphon & Sludge Main Improvements (Design).
- Approximately \$5.0M, budgeted for FY'22, is anticipated to be committed by the end of the fiscal year for the Pump Station Improvements (Construction) and the Blossom Valley Reservoir (Design).
- Approximately \$6.0, budgeted for FY'22, is not anticipated to be committed within the next six months for the following: IPS Expansion, WRF Replacement & Rehabilitation, projects Mandated by External Agencies, and projects related to Multiple Service Types. Staff recommends deferring renewal investments in the near term for these facilities/projects.
- Approximately \$5.2M, budgeted for FY'22, is not anticipated to be committed within the next 6-months for the following projects: Woodside Sewer Lift Station, Sewer Master Plan Projects, and Fanita Terrace Recycled Water Tank Refurbishment. The timing of the completion of the preliminary engineering analysis for these projects will require budget for implementation to be accounted for in the subsequent CIP.

During the first half of FY '22, engineering staff completed designs and facilitated the Board's award of construction contracts for the Sewer CIPP & MH Rehabilitation and the Contracted Valve Replacement Project. Additionally, the Engineering Department has been diligent in staffing the various CIP Projects that are currently in construction (six total) to ensure adequate coverage is provided for construction oversight, inspection, and construction contract administration.

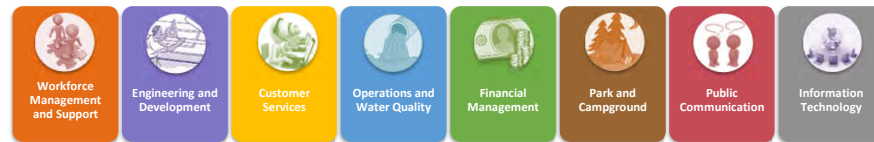
Over the past six-months the Engineering Department has experienced staffing changes in various positions. Staff will tackle these challenges to minimize their impacts on the District knowing that the Plan provides the necessary budget and timing flexibility to successfully deploy a project. As always, the overall intent remains to stay within the overall approved CIP budget for the Plan, while completing or committing the funds required to complete the projects identified in the CIP. Staff continues to reprioritize capital and preventive maintenance projects in a diligent manner to ensure overall District objectives are met.

RECOMMENDATION(S):

Hear a report on the financial highlights for the first half of FY '22; no action required.

**PADRE DAM MUNICIPAL WATER DISTRICT
FIVE YEAR BUSINESS PLAN FY '18 - '22
QUALITATIVE PERFORMANCE INDICATORS AND GOALS
FY '22 (QUARTER 2, YEAR 5)**

ATTACHMENT 1



Not Started ●
Off Task ▲
On Task ●
Complete ✓

WORKFORCE MANAGEMENT AND SUPPORT						
Description	Goal	Quarter				
Staffing		1st	2nd	3rd	4th	
Time to Hire	Less than 45 days	▲	▲			
Cost per hire	Less than \$500	▲	▲			
Create District HR Video	Completed by end of FY19	●	●			
Assessment on Need for Salary Survey	Completed by end of FY22	●	✓			
Number of Internships	Min of 2 per year	●	▲			
Internal Promotions	20%	●	▲			
Involuntary Turnover	Less than 5%	●	●			
Engagement						
Stream Engagement	95% monthly	●	●			
Maintain Employee Recognition Events	Annually	●	●			
Active laterals	More than 12 annually	●	●			
Performance						
Job Related Goals on Annual Review	100%	●	●			
EE On Development Plans	40%	●	●			
Maintain Mandated Training	As required by law	●	●			
Pay for Performance Assessment	100% of Annual Reviews on time	▲	▲			
Workers Compensation						
Workers Compensation Incident Rate	Baseline 2017 (4.40%) – goal is below 5%	●	●			
XMOD Improvement	Maintain at or below 1.18	●	●			
Credit Incentive Points	Strive for 90% or better each year to offset premiums	●	●			

ENGINEERING AND DEVELOPMENT						
Description	Goal	Quarter				
Capital Program Development and Implementation		1st	2nd	3rd	4th	
Expend or commit planned CIP budget	85% by the end of the Five Year Business Plan	▲	▲			
Minimize overall change orders for CIP program	Below 10%	●	●			
Provide project update to Stream when project is bid	100% of projects	●	●			
Planning and Compliance						
Update Sewer System and Urban Water Management Plans	Updated to July 1, 2021 to tie to regulatory deadline	✓	✓			
Renew NPDES permit	Renew by 2021	●	●			
Review and update Comprehensive Facilities Master Plan	Complete by 2021	●	▲			
Implement Ph1 of the East County AWP Program	Complete by 2022	●	●			
Development Services						
Review and Update Capacity Fee	Review quarterly, update per policy	●	●			
Provide Development Projects update to website and Stream	Quarterly	●	▲			
Complete plan review of projects	Within 4 to 6 weeks from plan check fees being paid	●	●			
Inspection						
Dig Alert Response	Within 2 days of notification and accuracy rate of 99.9%	●	●			
Close out projects timely	Within 3 months of filing of notice of completion	●	●			
Right of Way (R/O/W)						
Resolve any encroachment	Within 6 months of discovery	●	●			
Ensure necessary R/O/W for development/capital projects is acquired	Before finalization of plan review / before bidding projects	●	●			

**PADRE DAM MUNICIPAL WATER DISTRICT
FIVE YEAR BUSINESS PLAN FY '18 - '22
QUALITATIVE PERFORMANCE INDICATORS AND GOALS
FY '22 (QUARTER 2, YEAR 5)**

Not Started ●
Off Task ▲
On Task ●
Complete ✓

CUSTOMER SERVICES					
Description	Goal	Quarter			
		1st	2nd	3rd	4th
Billing, Receipts, and Collections					
Maximize collection of bad debts	Reduce bad debt sent to agency by 10%	●			
Decrease printing and mailing costs	Increase number of e-bill users by 10%	●			
Customer Assistance					
Increase response to customer inquiries	Minimize abandoned calls and reduce customer call wait times	●			
Track registered users of Aquahawk online water use portal	Increase customer registration by 30%	●			
Meter Services AMI					
Increase efficiency and performance of upper level AMI System	Reduce AMI Gateways from 44 units to 17 units by end of 2017	✓			
Increase efficiency and performance of upper level AMI System	Reduce number of repeaters in AMI infrastructure by 50%	▲			
Reduce manual meter reading	Maintain AMI electronic reading percentage of over 99% at all times	●			

OPERATIONS AND WATER QUALITY					
Description	Goal	Quarter			
		1st	2nd	3rd	4th
Operations and Maintenance Department - General					
Expand the use of GIS	Ongoing	●	●		
Pursue solutions to the flooding issues in Sycamore Creek	Ongoing	●	●		
Complete all regulatory reports	Annually	●	●		
Construction Group					
Site paving projects	Ongoing	●	●		
Minimize Sewer Hot Spots using Smart Cover technologies	Ongoing	●	●		
Water Operations					
Install reservoir management systems	By 2020	●	●		
Site security upgrades	Ongoing	●	●		
Ready all pump stations for bypass pumping operations	By 2021	●	●		
Water Recycling Facility					
Meet permit discharge requirements 365 days	Ongoing	●	●		
Perform required maintenance of all major plant equipment annually	Annually	●	●		
Inspect chlorine scrubber	Annually	●	●		
Overhaul one vertical turbine pump and motor	Bi-Annually beginning 2019	●	●		
Evaluate a new computerized maintenance program	Ongoing	●	●		
Laboratory and WRF Control Room upgrades	By 2018	✓	✓		
NPDES Permit renewal process	Ongoing (Expires in 2021)	●	●		

FINANCIAL MANAGEMENT					
Description	Goal	Quarter			
		1st	2nd	3rd	4th
Accounting					
Time to Run Payroll	Less than 4 days	●	●		
Timely processing of Invoices	Realize 90% of discounts available	●	●		
Timely filing of all IRS/State of CA payroll related reports	Within 30 days after quarter end	●	●		
Timely issuance of 1099s and W2s Annually	By January 31 each year	●	●		
Timely distribution of financial statements	To Board by 2nd meeting each month	●	●		
Timely distribution of audit	To Board by 2nd meeting in November	●	✓		
Timely filing of State Controllers Report	Annually by January 31	●	●		
Stay Current on Munis Software	Convert to V11 by end of FY '18	✓	●		
Budgeting and Planning					
Timely budget completion	Finalized and approved before beginning of each fiscal year	●	●		
Timely completion of Budget to actual reports for departments	By 3rd week after month end	●	●		
Issue 10 Year History report Annually	Draft by October 31 each year, final within 30 days of completed audit	●	✓		

**PADRE DAM MUNICIPAL WATER DISTRICT
FIVE YEAR BUSINESS PLAN FY '18 - '22
QUALITATIVE PERFORMANCE INDICATORS AND GOALS
FY '22 (QUARTER 2, YEAR 5)**

Not Started ●
Off Task ▲
On Task ●
Complete ✓

FINANCIAL MANAGEMENT (Cont.)						
Description	Goal	Quarter				
		1st	2nd	3rd	4th	
Finance and Investing						
Comply with debt service Coverage Requirements	Debt Service Coverage greater than 1.2X	●	●			
Comply with Bond Disclosure Requirements	Annual Continuing Disclosure Report posted by March 31	●	●			
Minimize Borrowing Costs	Maintain at least an AA credit rating	●	✓			





PARK AND CAMPGROUND						
Description	Goal	Quarter				
		1st	2nd	3rd	4th	
Financial Sustainability						
Occupancy Rate	Above 80% annually	●	●			
Sponsorship Revenue (1)	15% revenue increase by 2022	▲	▲			
Event Area Revenue (1)	\$200,000 by 2022	▲	▲			
Call Metrics	90%+ Service Rate monthly	▲	●			
Good Sam	9.0 annual rating	●	●			
Instagram Followers	5,000 by 2022	✓	✓			
Facebook Likes	15,000 by 2022	✓	✓			
Organizational Development						
Stream Engagement	Weekly login; 12 articles and 2 discussions annually	●	●			
Award Applications	1 annually	✓	✓			
Work Camper Program	Create development plan by 2018	✓	✓			
Work Camper Program	Implement applicant software tracking by 2018	✓	✓			
Predictive and Preventive Maintenance						
Urban Forest	Trim 80% of the trees in our Urban Forest by 2022	●	●			
HVAC Units	Perform quarterly maintenance at 100%	●	●			
Dynamic Vision Plan						
General Store Remodel	Complete by 2020	✓	✓			
Park Administrative Building Remodel	Complete by 2020	✓	✓			







(1) These goals are "OFF TASK" due to COVID-19













































PUBLIC COMMUNICATION						
Description	Goal	Quarter				
		1st	2nd	3rd	4th	
Demonstrating Value						
Engagement on Value of Water (2)	Provide at least 1 tour or class to customers on a quarterly basis	●	●			
Develop and maintain online reporting tool for performance measurements	Develop in first year of plan and continue semi-annual updates	●	●			
Informational campaigns on water services	Develop new messaging or tactic at least twice annually	●	●			
Water Supply and Reliability Messaging						
AWP Tours (2)	Minimum of 1,000 visitors per year	✓	✓			
AWP Outreach	Positive customer feedback and continued increase in customer reach	●	●			
Water Supply Condition Messaging	Develop messaging as needed based on conditions	●	●			
AWP Construction Outreach	Messaging to impacted residents and businesses	●	●			
Public Outreach						
Enhance Outreach	Use of new technology or online services for customers	●	●			
Provide updates to the District website	New items monthly	●	●			
District Project communications	Provide information to customers at least 7 days before work begins	●	●			
Media Relations	Positive earned media on District stories	●	●			
Social Media Engagement	Increased reach of message and customer engagement	●	●			
Branding	Ensure District is presented positively & accurately in all representations	●	●			
District Reports (Water Quality, Annual Report & other required)	Complete reports on time each year	●	●			
Web Videos	At least 1 new services video per year; additional videos for social media	●	●			

(2) These goals are "ON HOLD" due to COVID-19, although staff was/is prepared for both.

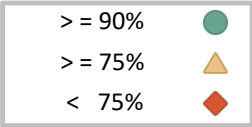
**PADRE DAM MUNICIPAL WATER DISTRICT
FIVE YEAR BUSINESS PLAN FY '18 - '22
QUALITATIVE PERFORMANCE INDICATORS AND GOALS
FY '22 (QUARTER 2, YEAR 5)**

Not Started 
Off Task 
On Task 
Complete 

PUBLIC COMMUNICATION (Cont.)						
Description	Goal	Quarter				
Government Relations		1st	2nd	3rd	4th	
Provide comments on items with impact to Padre Dam	At least 90% of items that have an impact on Padre Dam and ratepayers					
Legislative Updates to the Board	At least semi-annually					
Enhance relationships with elected officials	Meet with annually and share important District news regularly					

INFORMATION TECHNOLOGY						
Description	Goal	Quarter				
IT Infrastructure and Operations		1st	2nd	3rd	4th	
Transition to Exchange Online and Office 365	Complete by 7/1/2019					
Upgrade Active directory domain level to 2012/2016	Complete by 3/31/2019					
Expand and maintain data and telecommunications networks	Ongoing					
Replace phone system with a unified system District wide	Assessment RFP out by 03/31/19					
Upgrade all servers to Microsoft Windows Server 2012-2016	Complete by 12/1/2020					
Implement IT/GIS staff technical training program	Ongoing					
Implement IT/GIS staff change management training program	Complete by 12/1/2018					
Improve Documentation and tracking of all IT contracts	Ongoing					
IT Service and Applications						
Migrate services to Cloud computing models where feasible	When feasible					
Place all major applications on an update schedule	Complete by 7/1/19					
Improve SQL report access and availability	Complete by 7/1/2020					
Improve multiple source data integration	Complete by 7/1/2020					
Implement end user operating system and application training program	Ongoing					
Expand mobile user access to District information and applications	Ongoing					
Improve IT Service Delivery	Ongoing					
Upgrade all compatible desktops to Windows 10	Complete by 3/31/2019					
Improve Help Desk ticket response time	Ongoing					
Develop web-based IT/technology orientation for new employees	Complete by 10/30/2019					
Information Security						
Expand end user interactive Cyber Security awareness program	Ongoing					
Conduct a districtwide cyber security assessment	Annually with periodic updates					
Generate Backup And Recovery Plans for server hardware recovery	Ongoing					
Generate Backup And Recovery Plans for data recovery	Ongoing					

PADRE DAM MUNICIPAL WATER DISTRICT
FIVE YEAR BUSINESS PLAN FY '18 - '22
QUANTITATIVE PERFORMANCE INDICATORS AND GOALS
FY '22 (QUARTER 2, YEAR 5)



Operations and Water Quality

Water Recycling Facility

Flow Meter Calibration
Chlorine/Sulfur Dioxide Inspections ⁽¹⁾
Mixer Inspections ⁽²⁾
Mixer Rebuilds ⁽³⁾
Submersible Pump Inspections ⁽⁴⁾
Analyzer Calibration
Exercise all Valves throughout the WRF
Perform Hazmat Drill

1st Qtr (Jul-Sep)			2nd Qtr (Oct-Dec)			3rd Qtr (Jan-Mar)			4th Qtr (Apr-Jun)		
GOAL	ACTUAL	% TO GOAL	GOAL	ACTUAL	% TO GOAL	GOAL	ACTUAL	% TO GOAL	GOAL	ACTUAL	% TO GOAL
0	0	-	0	0	-	15		0%	0		-
3	5	167%	3	5	167%	3		0%	3		0%
3	0	0%	4	15	375%	4		0%	4		0%
3	7	233%	4	15	375%	4		0%	4		0%
4	6	150%	4	6	150%	4		0%	5		0%
15	15	100%	15	15	100%	15		0%	15		0%
11	11	100%	11	11	100%	11		0%	11		0%
0	0	-	1	0	0%	-		-	1		0%

Current Fiscal Year		
GOAL	ACTUAL	% TO GOAL
0	0	-
6	10	<div></div> 167%
7	15	<div></div> 214%
7	22	<div></div> 314%
8	12	<div></div> 150%
30	30	<div></div> 100%
22	22	<div></div> 100%
1	0	<div></div> 0%

Five Year Plan Cumulative		
GOAL	ACTUAL	% TO GOAL
60	60	<div></div> 100%
50	75	<div></div> 150%
78	75	<div></div> 96%
65	74	<div></div> 114%
67	92	<div></div> 137%
270	271	<div></div> 100%
198	196	<div></div> 99%
9	3	<div></div> 33%

Wastewater Group

Sewer Lines Cleaning Footage
Sewer Hot Spots Cleaned ⁽⁵⁾
CCTV Footage
Sewer Line Repairs (Laterals and Mains) ⁽⁶⁾
Sewer Lift Station Inspections
Unplanned:
Sanitary Sewer Overflows (SSO's)
Private Lateral Sewer Discharge (PLSD)

151,000	252,277	167%	151,000	184,146	122%	151,000		0%	151,000		0%
60	18	30%	60	99	165%	60		0%	104		0%
15,000	16,022	107%	15,000	15,098	101%	15,000		0%	15,000		0%
7	4	57%	8	2	25%	7		0%	8		0%
45	40	89%	45	52	116%	45		0%	45		0%
	0			0							
	0			0							

302,000	436,423	<div></div> 145%
120	117	<div></div> 98%
30,000	31,120	<div></div> 104%
15	6	<div></div> 40%
90	92	<div></div> 102%
	0	
	0	

2,718,000	3,346,415	<div></div> 123%
1,404	1,178	<div></div> 84%
270,000	440,315	<div></div> 163%
195	145	<div></div> 74%
506	492	<div></div> 97%
	3	
	21	

Construction Group

Valve Replacement
Special Projects
Poly service Replacements *(Added FY '21)*
Unscheduled:
Water Services Installed
Sewer Services Installed
Fire Services Installed
Recycled Water Services Installed
Relocated/Abandoned Services (All)
Unplanned:
External Agency Mandated Work
Water Main Failures/Unplanned Outages

33	43	130%	33	30	91%	33		0%	33		0%
0	2	200%	1	0	0%	1		0%	0		-
15	17	113%	15	12	80%	15		0%	15		0%
	6			0							
	1			0							
	1			0							
	0			0							
	1			1							
	1			1							
	1			2							
	1			2							

66	73	<div></div> 111%
1	2	<div></div> 200%
30	29	<div></div> 97%
	6	
	1	
	1	
	0	
	2	
	2	
	3	

594	429	<div></div> 72%
9	18	<div></div> 200%
270	228	<div></div> 84%
	84	
	5	
	22	
	6	
	84	
	7	
	55	

Water Operations Group

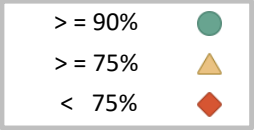
Water Mains Flushed
Valves Exercised
Water Quality Monitoring Samples
Reservoirs Dosed
Water System Site Inspections (45 sites) ⁽⁷⁾
Pump/Motor Maintenance/Recondition
Pressure Reducing Stations Maintenance
Portable Pumps Exercised ⁽⁸⁾
Large Meter Calibration *(Added FY '21)*

100	119	119%	100	118	118%	100		0%	100		0%
675	1,138	169%	675	982	145%	675		0%	675		0%
338	364	108%	341	332	97%	336		0%	330		0%
60	138	230%	60	130	217%	60		0%	60		0%
250	346	138%	250	278	111%	250		0%	250		0%
-	1	100%	-	2	200%	2		0%	-		-
2	0	0%	2	2	100%	3		0%	2		0%
-	2	200%	2	0	0%	2		0%	-		-
20	20	100%	0	0	-	-		-	-		-

200	237	<div></div> 119%
1,350	2,120	<div></div> 157%
679	696	<div></div> 103%
120	268	<div></div> 223%
500	624	<div></div> 125%
0	3	<div></div> 300%
4	2	<div></div> 50%
2	2	<div></div> 100%
20	20	<div></div> 100%

1,080	1,993	<div></div> 185%
12,150	15,917	<div></div> 131%
6,059	6,324	<div></div> 104%
1,080	2,020	<div></div> 187%
4,609	5,747	<div></div> 125%
6	24	<div></div> 400%
40	49	<div></div> 123%
17	13	<div></div> 76%
100	99	<div></div> 99%

PADRE DAM MUINICIPAL WATER DISTRICT
FIVE YEAR BUSINESS PLAN FY '18 - '22
QUANTITATIVE PERFORMANCE INDICATORS AND GOALS
FY '22 (QUARTER 2, YEAR 5)















Operations and Water Quality (cont)

Electrical/Cathodic Group

Infrared Camera MCC's
Motor Control Centers Serviced
Generators Exercised ⁽¹¹⁾
CP Test Station Reads WSA ⁽⁹⁾
Reservoir - CP Reads ⁽¹⁰⁾
Reservoir - Coating & CP Dive Inspection

1st Qtr (Jul-Sep)			2nd Qtr (Oct-Dec)			3rd Qtr (Jan-Mar)			4th Qtr (Apr-Jun)		
GOAL	ACTUAL	% TO GOAL	GOAL	ACTUAL	% TO GOAL	GOAL	ACTUAL	% TO GOAL	GOAL	ACTUAL	% TO GOAL
44	34	77%	36	36	100%	44		0%	36		0%
12	12	100%	12	4	33%	12		0%	12		0%
96	96	100%	96	96	100%	96		0%	96		0%
-	0	-	237	237	100%	-		-	237		0%
8	0	0%	8	16	200%	8		0%	8		0%
1	0	0%	1	3	300%	1		0%	1		0%





Current Fiscal Year		
GOAL	ACTUAL	% TO GOAL
80	70	 88%
24	16	 67%
192	192	 100%
237	237	 100%
16	16	 100%
2	3	 150%





Five Year Plan Cumulative		
GOAL	ACTUAL	% TO GOAL
672	635	 94%
216	199	 92%
1,704	1,695	 99%
2,373	1,867	 79%
180	130	 72%
18	11	 61%

Compliance Group

FOG Inspections
FOG Spot Checks
Industrial Waste
Cross Connection Control Inspections

33	36	109%	26	38	146%	35		0%	22		0%
36	5	14%	32	72	225%	43		0%	37		0%
4	4	100%	3	4	133%	4		0%	1		0%
45	64	142%	81	68	84%	15		0%	68		0%







59	74	 125%
68	77	 113%
7	8	 114%
126	132	 105%







523	677	 129%
660	528	 80%
55	45	 82%
962	1,289	 134%

Fleet Maintenance Group

Fleet Maintenance (Service Ticket/Repairs)
Vehicle Rehabilitation/Rebuild
Capital Equipment Replacements
Generators - Annual Service ⁽¹²⁾
Portable Pumps - Annual Service ⁽¹³⁾
Facilities Maintenance Projects Completed

45	57	127%	45	48	107%	45		0%	45		0%
1	1	100%	0	0	-	1		0%	1		0%
5	8	160%	0	0	-	4		0%	0		-
0	0	-	14	14	100%	0		-	0		-
0	0	-	4	1	25%	0		-	0		-
1	2	200%	1	3	300%	1		0%	1		0%

90	105	 117%
1	1	 100%
5	8	 160%
14	14	 100%
4	1	 25%
2	5	 250%


810	935	 115%
13	8	 62%
41	25	 61%
73	74	 101%
18	11	 61%
18	34	 189%



Customer Services














Meter Services and AMI

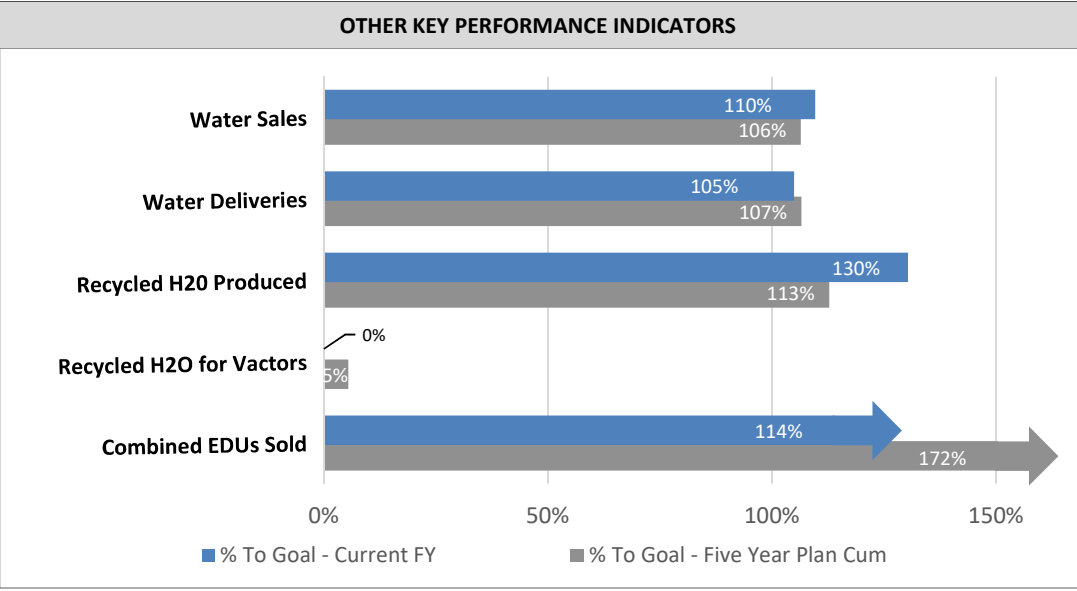
Replace failing Datamatic AMI Radios ⁽¹⁴⁾
Meter Replacements MMP ⁽¹⁵⁾

1st Qtr (Jul-Sep)			2nd Qtr (Oct-Dec)			3rd Qtr (Jan-Mar)			4th Qtr (Apr-Jun)		
GOAL	ACTUAL	% TO GOAL	GOAL	ACTUAL	% TO GOAL	GOAL	ACTUAL	% TO GOAL	GOAL	ACTUAL	% TO GOAL
-	-	-	-	-	-	-	-	-	-	-	-
900	1,711	190%	900	812	90%	900		0%	900		0%

Current Fiscal Year		
GOAL	ACTUAL	% TO GOAL
0	0	-
1,800	2,523	 140%

Five Year Plan Cumulative		
GOAL	ACTUAL	% TO GOAL
15,400	11,410	 74%
14,400	19,211	 133%

CHANGE IN NET POSITION			
Operation	YTD Actual	YTD Budget	Variance
Potable Water	\$3,976,372	\$1,146,187	 2,830,185
Sewer	\$1,149,873	\$252,822	 897,051
Recycled Water	\$812,785	\$741,275	 71,509
Park	\$380,053	(\$262,700)	 642,753
Combined	\$6,319,083	\$1,877,584	 4,441,499
OPERATING EXPENSES			
Expense	YTD Actual	YTD Budget	Variance
Salaries and Wages	\$6,983,329	\$6,964,469	 18,860
Employee Benefits	\$4,864,780	\$5,380,259	 (515,479)
Professional Services	\$1,361,827	\$3,367,396	 (2,005,569)
Materials & Supplies	\$3,475,784	\$3,475,289	 495
Admin Expenses	\$1,424,721	\$1,505,896	 (81,175)
Utilities	\$1,029,809	\$1,041,033	 (11,224)
Billing Credits	(\$1,234,450)	(\$1,262,886)	 28,436
Total	\$17,905,800	\$20,471,456	 (2,565,656)



STATEMENT OF OPERATIONS
FOR SIX MONTHS ENDING DECEMBER 31, 2021

	PORTABLE WATER OPERATION				RECYCLED WATER OPERATION				SEWER OPERATION				PARK OPERATION				COMBINED			
	A C T U A L	B U D G E T	FAVORABLE / (UNFAVORABLE)		A C T U A L	B U D G E T	FAVORABLE / (UNFAVORABLE)		A C T U A L	B U D G E T	FAVORABLE / (UNFAVORABLE)		A C T U A L	B U D G E T	FAVORABLE / (UNFAVORABLE)		A C T U A L	B U D G E T	FAVORABLE / (UNFAVORABLE)	
			\$	%			\$	%			\$	%			\$	%			\$	%
Income provided from Operations:																				
Revenues:																				
Water Sales	\$ 17,008,613	\$ 15,833,488	\$ 1,175,125	7%	\$ 1,601,037	\$ 1,726,294	\$ (125,257)	-7%	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -		\$ 18,609,650	\$ 17,559,782	\$ 1,049,868	6%
Infrastructure Access Charge	694,088	688,076	6,012	1%	-	-	-		-	-	-		-	-	-		694,088	688,076	6,012	1%
Energy Billings	809,007	939,159	(130,152)	-14%	-	-	-		-	-	-		-	-	-		809,007	939,159	(130,152)	-14%
CWA/ Metro Credits	-	-	-		113,620	111,950	1,670	1%	-	-	-		-	-	-		113,620	111,950	1,670	1%
Padre Dam Sewer Processing Fee	-	-	-		634,508	634,508	-	0%	-	-	-		-	-	-		634,508	634,508	-	0%
Sewer Revenues	-	-	-		-	-	-		10,006,235	9,738,492	267,743	3%	-	-	-		10,006,235	9,738,492	267,743	3%
System Charges	6,355,107	6,319,248	35,859	1%	136,538	126,648	9,890	8%	-	-	-		-	-	-		6,491,645	6,445,896	45,749	1%
Park Fees	-	-	-		-	-	-		-	-	-		3,669,356	3,350,715	318,641	10%	3,669,356	3,350,715	318,641	10%
Property taxes subvention	1,412,704	1,420,479	(7,775)	-1%	-	-	-		-	-	-		-	-	-		1,412,704	1,420,479	(7,775)	-1%
Other Revenues	672,057	249,996	422,061	169%	932	-	932		9,282	3,500	5,782	165%	31,376	-	31,376		713,647	253,496	460,151	182%
Total Operating Revenues	26,951,576	25,450,446	1,501,130	6%	2,486,635	2,599,400	(112,765)	-4%	10,015,517	9,741,992	273,525	3%	3,700,732	3,350,715	350,017	10%	43,154,460	41,142,553	2,011,907	5%
Direct Costs:																				
Water Purchases	8,995,281	8,869,032	(126,249)	-1%	-	-	-		-	-	-		-	-	-		8,995,281	8,869,032	(126,249)	-1%
Infrastructure Access Charge	685,608	688,076	2,468	0%	-	-	-		-	-	-		-	-	-		685,608	688,076	2,468	0%
Energy Purchases	838,707	939,159	100,452	11%	-	-	-		-	-	-		-	-	-		838,707	939,159	100,452	11%
Sewer METRO Costs	-	-	-		-	-	-		2,368,654	2,393,856	25,202	1%	-	-	-		2,368,654	2,393,856	25,202	1%
Padre Sewer Treatment	-	-	-		-	-	-		634,508	634,508	-	0%	-	-	-		634,508	634,508	-	0%
Fish Stock/Propane	-	-	-		-	-	-		-	-	-		155,895	178,330	22,435	13%	155,895	178,330	22,435	13%
Total Direct Costs	10,519,596	10,496,267	(23,329)	0%	-	-	-		3,003,162	3,028,364	25,202	1%	155,895	178,330	22,435	13%	13,678,653	13,702,961	24,308	0%
Revenues Available for Operating Expenses	16,431,980	14,954,179	1,477,801	10%	2,486,635	2,599,400	(112,765)	-4%	7,012,355	6,713,628	298,727	4%	3,544,837	3,172,385	372,452	12%	29,475,807	27,439,592	2,036,215	7%
Operating Expenses:																				
Salary & Wages	3,921,023	3,883,106	(37,918)	-1%	559,252	553,843	(5,408)	-1%	1,782,340	1,765,104	(17,236)	-1%	720,714	762,416	41,702	5%	6,983,329	6,964,469	(18,860)	0%
Employee Benefits	2,723,282	2,994,412	271,130	9%	375,018	412,355	37,337	9%	1,303,760	1,433,562	129,803	9%	462,721	539,929	77,209	14%	4,864,780	5,380,259	515,479	10%
Professional Services	780,575	2,019,961	1,239,386	61%	54,057	139,887	85,831	61%	325,269	841,725	516,457	61%	201,926	365,822	163,896	45%	1,361,827	3,367,396	2,005,569	60%
Materials, Supplies, Vehicle & Bldg. Rent	1,660,123	1,684,779	24,656	1%	202,296	205,301	3,005	1%	1,077,933	1,093,943	16,010	1%	535,432	491,267	(44,165)	-9%	3,475,784	3,475,289	(495)	0%
Administrative Expenses	884,164	905,821	21,658	2%	93,063	95,342	2,280	2%	385,468	394,910	9,442	2%	62,027	109,823	47,796	44%	1,424,721	1,505,896	81,175	5%
Utilities	83,626	79,864	(3,762)	-5%	150,675	143,896	(6,779)	-5%	381,957	364,773	(17,184)	-5%	413,551	452,500	38,949	9%	1,029,809	1,041,033	11,224	1%
Billing Credits	(1,005,365)	(1,018,871)	(13,506)	1%	(224,509)	(229,226)	(4,717)	2%	(4,576)	(12,289)	(7,714)	63%	-	(2,500)	(2,500)	100%	(1,234,450)	(1,262,886)	(28,436)	2%
Subtotal	9,047,428	10,549,072	1,501,644	14%	1,209,851	1,321,398	111,548	8%	5,252,150	5,881,727	629,577	11%	2,396,371	2,719,257	322,886	12%	17,905,800	20,471,456	2,565,656	13%
Depreciation/Amort	2,954,370	2,906,846	(47,524)	-2%	492,373	584,525	92,152	16%	713,631	665,139	(48,492)	-7%	610,891	573,630	(37,261)	-6%	4,771,264	4,730,139	(41,125)	-1%
Total Operating Expenses	12,001,798	13,455,918	1,454,121	11%	1,702,223	1,905,923	203,700	11%	5,965,781	6,546,866	581,085	9%	3,007,262	3,292,887	285,625	9%	22,677,064	25,201,595	2,524,531	10%
Income (Loss) Provided from Operations	4,430,182	1,498,260	2,931,922	196%	784,412	693,477	90,935	13%	1,046,574	166,762	879,812	528%	537,575	(120,502)	658,077	-546%	6,798,743	2,237,997	4,560,746	204%
Non Operating Activity																				
Interest Expense (Non CEF)	(535,884)	(535,416)	(468)	0%	(15,977)	(16,655)	677	-4%	-	-	-		(167,051)	(165,280)	(1,772)	1%	(718,912)	(717,350)	(1,563)	0%
Interest Expense (CEF)	-	-	-		-	-	-		-	-	-		-	-	-		(199,058)	(199,058)	-	0%
Interest Expense (CEF)	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Interest Income (Non CEF)	82,073	183,342	(101,269)	-55%	44,350	64,453	(20,103)	-31%	103,298	86,060	17,239	20%	9,529	23,082	(13,553)	-59%	239,251	356,936	(117,685)	-33%
Interest Income (CEF)	-	-	-		-	-	-		-	-	-		-	-	-		42,619	26,298	16,321	62%
Gain/Loss on Sale of Fixed Assets	-	-	-		-	-	-		-	-	-		-	-	-		83,624	-	83,624	
Gain/Loss on Investments	-	-	-		-	-	-		-	-	-		-	-	-		(507,691)	-	(507,691)	
Other Income/(Expense)	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Total Non Operating Income (Expenses)	(453,810)	(352,074)	(101,737)	29%	28,373	47,798	(19,425)	-41%	103,298	86,060	17,239	20%	(157,522)	(142,198)	(15,324)	11%	(1,060,167)	(533,174)	(526,994)	99%
Change in Net Assets	\$ 3,976,372	\$ 1,146,187	\$ 2,830,185	247%	\$ 812,785	\$ 741,275	\$ 71,509	10%	\$ 1,149,873	\$ 252,822	\$ 897,051	355%	\$ 380,053	\$ (262,700)	\$ 642,753	-245%	\$ 5,738,576	\$ 1,704,824	\$ 4,033,752	237%

DESIGNATED FUND BALANCES	PORTABLE WATER OPERATION				RECYCLED WATER OPERATION				SEWER OPERATION				PARK OPERATION				COMBINED			
	Total	Rate Stabilization	Capital Replacement	Major CIP	Total	Rate Stabilization	Capital Replacement	Major CIP	Total	Rate Stabilization	Capital Replacement	Major CIP	Total	Rate Stabilization	Capital Replacement	Major CIP	Total	Rate Stabilization	Capital Replacement	Major CIP
Balance 07/01	\$ 51,159,439	\$ 13,380,391	\$ 13,996,721	\$ 23,782,327	\$ 18,524,738	\$ 750,391	\$ 5,088,352	\$ 12,685,994	\$ 25,465,881	\$ 6,727,858	\$ 7,607,690	\$ 11,130,333	\$ 4,836,414	\$ 2,555,102	\$ 2,281,311	\$ -	\$ 99,986,471	\$ 23,413,742	\$ 28,974,075	\$ 47,598,654
Audit Rebalancing	-	7,156,264	1,239,370	(8,395,634)	-	788,069	207	(788,276)	-	2,762,639	(157,818)	(2,604,821)	-	-	-	-	-	10,706,972	1,081,759	(11,788,731)
Change in Net Assets	3,976,372	-	-	-	812,785	-	-	-	1,149,873	-	-	-	380,053	-	-	-	6,319,083	-	-	-
Add Back Depreciation/Amort	2,954,370	-	-	-	492,373	-	-	-	713,631	-	-	-	610,891	-	-	-	4,771,264	-	-	-
Changes in Payables/Receivables, Other	(3,646,515)	-	-	-	(862,814)	-	-	-	(1,874,806)	-	-	-	(250,000)	-	-	-	(6,634,135)	-	-	-
Cash Generated from Operations	3,284,227	687,796	2,596,431	-	442,344	32,375	409,968	-	(11,303)	(11,303)	-	-	740,944	740,944	-	-	4,456,212	1,449,813	3,006,399	-
CIP/Capital Equip	(3,983,157)	-	(3,983,157)	-	(65,049)	-	(65,049)	-	(221,530)	-	(221,530)	-	(86,401)	-	(86,401)	-	(4,356,137)	-	(4,356,137)	-
Debt Principal	(1,976,577)	-	(1,976,577)	-	(150,457)	-	(150,457)	-	-	-	-	-	(689,660)	-	(689,660)	-	(2,816,694)	-	(2,816,694)	-
Interest Income Transfer	-	(48,423)	48,423	-	-	(32,375)	32,375	-	-	(52,682)	52,682	-	-	(6,956)	6,956	-	-	(140,437)	140,437	-
Cash Used for Capital Investment/Debt	(5,959,734)	(48,423)	(5,911,311)	-	(215,506)	(32,375)	(183,130)	-	(221,530)	(52,682)	(168,848)	-	(776,061)	(6,956)	(769,105)	-	(7,172,831)	(140,437)	(7,032,393)	-
Financing/Contrib Capital/Other Transfers	(152,455)	(639,372)	486,918	-	(31,289)	-	(31,289)	-	(72,202)	(201,298)	129,095	-	-	-	-	-	(255,946)	(840,670)	584,724	-
Net Change in Cash	(2,827,962)	7,156,264	(1,588,592)	(8,395,634)	195,550	788,069	195,757	(788,276)	(305,035)	2,497,357	(197,571)	(2,604,821)	(35,117)	733,988	(769,105)	-	(2,972,564)	11,175,677	(2,359,511)	(11,788,731)
Balance 6-30	\$ 48,331,477	\$ 20,536,655	\$ 12,408,129	\$ 15,386,693	\$ 18,720,287	\$ 1,538,460	\$ 5,284,109	\$ 11,897,718	\$ 25,160,846	\$ 9,225,214	\$ 7,410,119	\$ 8,525,512	\$ 4,801,297	\$ 3,289,090	\$ 1,512,207	\$ -	\$ 97,013,907	\$ 34,589,420	\$ 26,614,564	\$ 35,809,923



BOARD AGENDA REPORT

Meeting Date: 02-16-2022
Dept. Head: Lisa Sorce
Submitted by: Melissa McChesney
Department: HR & Administrative Services
Approved by: Allen Carlisle, CEO/GM

SUBJECT: LEGISLATIVE UPDATE

RECOMMENDATION(S):

Hear staff report; no action required.

ALTERNATIVE(S):

n/a

ATTACHMENT(S):

None

FUNDING:

Requested amount: n/a

Budgeted amount:

Are funds available? ☐ Yes ☐ No

Project cost to date:

PRIOR BOARD/COMMITTEE CONSIDERATION:

STRATEGIC PLAN IMPLEMENTATION:

This agenda item is consistent with the District's Strategic Plan and meets one or more of the following Strategic Goals: Provide safe, reliable water, recycled water and sewer services; Ensure fiscal health and competitively sustainable rates; Enhance customer communications and education; Increase water, wastewater and energy independence; Maintain workforce excellence; Expand park and recreation opportunities.

Reviewed by:

Dept Head ☒
Finance ☐
Legal Counsel ☐
Standard Form ☐

Action Required:

Motion ☐
Resolution ☐
Ordinance ☐
None ☒

Policy Updates:

Rules & Regulations ☐
Standard Practices & Policies ☐

Action Taken:

As Recommended _____
Reso/Ord. No. _____
Other _____

EXECUTIVE SUMMARY:

The 2022 legislative session is off to a relatively quiet start as relates to water industry issues. It is expected that activity will pick up during the middle of February as the deadline to introduce new bills approaches on February 18, 2022. COVID-19 continues to be a key focus as well as the State budget surplus. Climate change is also receiving a lot of attention which could have ties to our industry.

DESCRIPTION:

The California Legislature has begun its second year of a two-year session. This means certain bills that did not make it through last year's session may come up again this year as well as the introduction of new bills. The final date for last year's bills to move forward was January 31, 2022. The last day for new bills to be introduced is February 18, 2022. It is expected that we will see a lot of bill activity the week before this month's deadline. So far we are seeing a large focus on housing and climate, especially in the State budget, as well as COVID-19 related concerns.

The State Budget surplus is a hot discussion item among not only the Governor's office but throughout the State Legislature.

Indoor Water Use

One notable topic expected to be discussed this session is indoor water use standards. The Department of Water Resources (DWR) has sent their recommendation for indoor water use standards through 2030 to the Legislature. These recommendations must be approved by the Legislature in order for them to take effect. Additionally, Assembly member Friedman carried over AB 1434 from last year's session on urban water use objectives for indoor water use. At this time the author has stated she is no longer moving forward with AB 1434 but intends to introduce a new bill with similar language on indoor water use. The current DWR recommendation and language from the Friedman bill would reduce indoor water use standards from the current 55 GPCD to only 42 GPCD by 2030.

More Water Now Initiative

The More Water Now initiative was an initiative to get the "Water Infrastructure Funding Act of 2022" on the November 2022 ballot. The act would mandate two-percent of the State's general fund pay for selected water projects until an additional five million acre-feet of water supply is created. The initiative announced in early February that it will be taking a step back from the 2022 ballot and aiming to make the 2024 state ballot. Padre Dam has not taken any position on this initiative. Staff will continue to follow the initiative and provide any key updates in future reports.

East County AWP Legislative Activity

Staff is working closely with our legislative advocacy team at Nossaman on State and Federal opportunities that could benefit the East County Advanced Water Purification Project. The team at Nossaman has been working hard to provide program information and updates to all State and Federal elected officials within Padre Dam's service area as well as the entire program service area and San Diego region.

Staff will present an update on key legislation at the Board meeting.

RECOMMENDATION(S):

Hear staff report; no action required.



[NOTICE: PER GOVERNOR NEWSOM'S EXECUTIVE ORDERS, THE BELOW MEETING WILL NOT BE HELD IN PERSON BUT ELECTRONICALLY. DIRECTORS WILL BE PROVIDED ELECTRONIC ACCESS INFORMATION SEPARATELY. THE PUBLIC MAY ACCESS THE MEETING ELECTRONICALLY BY GOING TO THIS WEB LINK:

<https://www.sdcwa.org/meetings-and-documents> AND THEN CLICKING THE LINK LISTED BELOW "LIVE STREAM" ON THE RIGHT HAND SIDE OF THE PAGE.

PUBLIC COMMENT MAY BE SUBMITTED BY EITHER OF THESE TWO METHODS:

- 1. BEFORE THE MEETING SUBMIT YOUR TELEPHONE NUMBER BY E-MAIL TO THE CLERK AT MNELSON@SDCWA.ORG AND THE CLERK WILL CALL YOU WHEN THE BOARD IS READY TO HEAR YOUR PUBLIC COMMENT (THREE MINUTES OR LESS); OR**
- 2. BEFORE THE MEETING E-MAIL YOUR COMMENT TO THE WATER AUTHORITY GENERAL COUNSEL AT MHATTAM@SDCWA.ORG, AND TIME ALLOWING IT MAY BE READ ALOUD AT THE PUBLIC COMMENT PERIOD (THREE-MINUTE LIMIT).**

IF MODIFICATIONS OR ACCOMMODATIONS FROM INDIVIDUALS WITH DISABILITIES ARE REQUIRED, SUCH PERSONS SHOULD PROVIDE A REQUEST AT LEAST 24 HOURS IN ADVANCE OF THE MEETING BY E-MAIL TO THE WATER AUTHORITY GENERAL COUNSEL AT MHATTAM@SDCWA.ORG

AGENDA

SPECIAL MEETING ADMINISTRATIVE AND FINANCE COMMITTEE

FEBRUARY 10, 2022

1:30 p.m.

Marty Miller, Chair
Jimmy Ayala, Vice Chair
Gary Hurst, Vice Chair
Ismahan Abdullahi
Gary Arant
Brian Boyle
Chris Cate
Gary Croucher

Matt Hall
Frank Hilliker
Mel Katz
Tom Kennedy
Jim Madaffer
Bill Pommering
Kim Thorner

- 1. Roll call – determination of quorum.**
- 2. Additions to agenda (Government Code Section 54954.2(b)).**



San Diego County Water Authority

3. Public comment – opportunities for members of the public to address the Committee on matters within the Committee’s jurisdiction.
4. Budget Process Policy. Liana Whyte
Staff recommendation: Adopt the Board Budget Policy (Action)
5. Approach to Rate Design Development. Pierce Rossum
FSWG recommendations:
 - 1) Direct staff to develop an alternative rate design that increases fixed cost recovery for future Board consideration.
 - 2) Direct staff to continue future rate developments efforts outside the FSWG, and instead work directly with Member Agency General Managers. (Action)
6. Adjournment.

Melinda Nelson
Clerk of the Board

NOTE: This meeting is also called and noticed as a meeting of the Board, but will be conducted as an Administrative and Finance Committee meeting. Members of the Board who are not members of the Committee may participate in the meeting pursuant to Section 2.00.060(g) of the Water Authority Administrative Code. All items on the agenda, including information items, may be deliberated and become subject to Committee action. All public documents provided to the committee or Board for this meeting including materials related to an item on this agenda and submitted to the Board of Directors within 72 hours prior to this meeting may be reviewed at the San Diego County Water Authority headquarters located at 4677 Overland Avenue, San Diego, CA 92123 at the reception desk during normal business hours.



DIRECTOR'S REPORT OF CONFERENCE/MEETING ATTENDANCE

Submitted by:	Director Peasley
Conference/Meeting:	Metro Commission & Metro Wastewater JPA Meeting
Attendance Date(s):	February 3, 2022

SUMMARY OF CONFERENCE OR MEETING

The Metro Commission and Metro Wastewater JPA (Metro Commission/JPA) meeting was held on Thursday afternoon February 3, 2022 via ZOOM.

The Metro Commission/JPA approved a motion to make findings to continue holding remote/teleconference meetings pursuant to Assembly Bill 361.

There were no public comments provided to the Metro Commission/JPA.

Introductions to the Metro Commission/JPA members was made for the new Metro TAC Chair, Beth Gentry of the City of San Diego and Metro TAC Vice-Chair Yazmin Arellano of the City of El Cajon.

The Metro Commission/JPA approved the December 2, 2021 regular meeting minutes.

At the December 2021 Metro Commission/JPA meeting an action was approved to form a new Ad Hoc Committee on a temporary basis. As a result Chair Jones appointed the Chair, Vice-Chair Peasley, Mr. Spriggs of Imperial Beach, Mr. Kendrick of El Cajon, and Mr. Heights of Coronado. The Metro Commission/JPA approved the Ad Hoc Committee members.

The Metro Commission/JPA approved the scope of work for the newly appointed Ad Hoc Committee and its members which is as follows:

- a) Address Pure Water Phase I construction related issues.
- b) Address Pure Water Phase II planning and initial development concepts.
- c) Address the parking lot items listed in the Second Amended and Restated Agreement.

The parking lot items are required by the terms of the SARA to be completed by August 2022.

A brief update report on the City of San Diego's Industrial Wastewater Control Committee efforts and progress was made by Beth Gentry a staff member of the City of San Diego. Again the concern here in how this will move forward in the approval process through Metro Commission/JPA.

The City of San Diego staff, Tom Rosales, did have a few remarks on the progress that the City of San Diego has made on the Point Loma Wastewater Treatment Plant coastal erosion issues. An RFP for consultant help is being prepared.

The City of San Diego staff, Tom Rosales, made a brief update report on the City of San Diego's April 10, 2020 Sanitary Sewer System Overflow. A San Diego RWQCB enforcement outcome letter has been received and is deemed confidential, and the issue continue to be in the hands of the lawyers at this time. A City response letter is expected by the end of February 2022. It is speculated by me and others that the fine amount is in the millions of dollars based upon history.

The City of San Diego staff, Tom Rosales, reported that the City Public Works Director Shana Lorange plans to retire after just over two years with the City next Friday.

The planned City of San Diego Metro Capital Improvement Program and Funding Sources update was again pushed to the next meeting.

The City of San Diego staff, Amy Dorman, made a brief update report on the City of San Diego's status and progress on the Pure Water Phase I project. Two of the planned construction contracts remain to be awarded. The City continues working through the efforts for Phase II with regard to the DPR regulations.

The City of San Diego staff, Tom Rosales, made a brief update report on the City of San Diego's status and progress of the on Secondary Equivalency legislation, known as OPRA II. OPRA II is planned to be included as part of the Omnibus Legislation in Washington D.C.

The Metro TAC, through a Technical Working Group, continues working on what are known as the parking lot items in the Second Amended and Restated Regional Wastewater Disposal Agreement. They are also working on amending the JPA Bylaws.

A brief IROC report was provided by Chair Jerry Jones regarding that groups discussions similar to that of those of the Metro Commission/Metro Wastewater JPA meetings.

The Finance Committee had no report for there were no activities.

The General Counsel reminded the members of the upcoming Form 700 reporting requirements.

There were no proposed agenda items for the next Metro Commission/Metro Wastewater JPA meeting put forward by Staff nor any Metro Commissioner.

There were no Metro Commissioner comments provided.

The Metro Commission/Metro Wastewater JPA went into Closed Session for conference with legal counsel for anticipated litigation. Returned from Closed Session with no reportable action.

The next Metro Commission/Metro Wastewater JPA meeting is scheduled for March 3, 2022.



DIRECTOR'S REPORT OF CONFERENCE/MEETING ATTENDANCE

Submitted by:	Bill Pommering
Conference/Meeting:	Santee Chamber of Commerce Government Affairs Committee
Attendance Date(s):	02/07/2022

SUMMARY OF CONFERENCE OR MEETING

Meetings such as this, not only supply information to PDMWD from various community electeds and other organizations; they also allow PDMWD to get its own information out into the community at large. It fosters cooperation and allows for a community consensus to be achieved. It builds a solid working relationship within various levels of government.

Meeting called to order at 8:35 AM. Quorum present.

STATE ASSEMBLYPERSON RANDY VOEPER'S OFFICE: AB1400 (Universal Healthcare) was pulled from consideration as there were not enough votes for it to pass. AB257 passed adding to regulations on takeout restaurants. Finalizing legislative package. Coauthoring with many other legislators. Update to come next month as it is finalized.

SUPERVISOR JOEL ANDERSON'S OFFICE: Shadow Rent program for homeless people over fifty-five. \$300.00 a month subsidy to keep older population in their homes. Looking at allowing unincorporated areas of the county allow certain amusement devices (Dave and Busters, Chuckie Cheese, etc.

COX COMMUNICATIONS: Working on addressing the digital divide. Continued investment into infrastructure. Department of Commerce is setting forth new regulations that must be reviewed and followed and implemented. Affordability and access are new benchmarks. Federal funding is supplying a \$3000/month assistance to low-income users; Cox is providing a new low-income product that costs \$30.00/month, thus providing free access to the internet.

Santee School Board: Working through Covid issues. Making sure to provide quality education to all. Difficult in times of changing regulations. Will continue to follow all applicable laws and regulations promulgated by the state. Loss of in person learning leads to a loss of education for students.

Waste Management: Working through staffing issues due to Covid. Effective January 01st, organic waste must be recycled rather than be put into the trash. In Santee, organic waste must be placed into the green recycling cans. Cannot use plastic bags when placing into the recycle system. Advocating cardboard box, paper bag, etc. This is an education challenge for the community.

Grossmont Hospital: Covid numbers have been improving/lowering. About 50% of patients in the hospital that have Covid are hospitalized for other reasons. While milder, Omicron is more pervasive and affecting far more people. Continuing mobile clinics for vaccinations.

Meeting was adjourned at 9:36 AM.

Next Meeting is scheduled for March 21, 2022, at 8:30 AM. Location, Santee City Hall Complex, Building 8A.



DIRECTOR'S REPORT OF CONFERENCE/MEETING ATTENDANCE

Submitted by:	Bill Pommering
Conference/Meeting:	San Diego East County Economic Development Council Monthly Meeting
Attendance Date(s):	02-16-22

SUMMARY OF CONFERENCE OR MEETING

Meeting was called to order at 7:32 AM. This was a hybrid meeting with six (6) people in person. An additional twenty-four participants attended via Zoom. The minutes from the January 19, 2022, meeting was approved.

QUARTERLY FINANCIAL SUMMARY – For the period of October to December 2021 – Also includes YTD totals. ECEDC is in excellent shape financially.

PRESIDENT'S REPORT — **New employee hired to work to continue to develop relationships within East County.** Final grant money will be distributed by end of March. Challenging and rewarding project for the Community. Reviewed almost 4,700 applications for the funds. County's \$2,500. COVID relief for microbusiness is now operable. Available for businesses with under \$50,000. In revenues. Reaching out to local businesses that did not qualify for previous programs. Future support programs are coming in the near term.

COMMITTEE UPDATES —

SKILLED WORKFORCE — Working on 2022 strategic planning. Priorities and outreach strategies are being finished. Looking for industry partners to work with the committee. New committee chair(s) is/are needed. Appointment is forthcoming and will be announced.

GILLESPIE FIELD – Met yesterday. Weld property development is now on hold. Marshall Avenue – new industrial center has been completed. Bradley/67 stays in the state of “going forward.” CalTrans has made some inquiries that need to be resolved. Expected groundbreaking is in June to late summer. There is massive opposition to the county's Working Families act: there would be a net loss of \$22M of economic impact if implemented. There has been little to no reporting of this impact. Hearing will be held on March 01, 2022. Majority of Board of Supervisors appears to be ignoring most of the information it is being supplied by the community. Economic projections are for an immediate and lasting impact on jobs and the economy in East County.

ADVOCACY – Working Families Ordinance – holding tight for now at it appears that its passage is ordained at this point. Trying to make sure that in future, voices are being heard. There is a variety of fees and taxes and are being proposed: Vehicle Miles Travelled and Vehicle Mileage Tax.

LEGISLATIVE/MEMBER UPDATES –

CONGRESSPERSON ISSA'S OFFICE – *NO REPORT GIVEN.*

SENATOR JONES' OFFICE – For first month of current session, all two-year bills are processed first. Universal Payor Healthcare bill died. Senator Jones introduced a bill to address theft of catalytic converters; thefts rose by 1300%! Bill would require that dealerships engrave the VIN on all catalytic converters and recyclers would have to document that number when processing. It applies to new and used cars and would increase penalties on such theft. SB1006 was just introduced. Homeless assessment bill. Grant program for law enforcement to provide wrap-around services within their communities.

Guidance to help relocate homeless. \$43B budget surplus. Senator is calling for a pay down of funds borrowed from the Federal government (\$25B).

ASSEMBLY MEMBER VOEPER'S OFFICE — *NO REPORT GIVEN.*

COUNTY OF SAN DIEGO – SUPERVISOR ANDERSON — Directed that a shallow-rent program be looked into: trying to prevent older members of the community from becoming homeless. March 15th is a special meeting to select an interim County Sheriff. It will be a person who says that they will not be running for election in 2022.

CITY OF LEMON GROVE — New housing coming to the west side: thirteen single family homes; on the east side: twenty units. Downtown there will be sixty-six new housing units in a combined, mixed-use environment.

CITY OF EL CAJON — Great concerns over Working Families Ordinance; it will affect over 50% of El Cajon industrial space. Redistricting: map will stay the same with no changes.

CITY OF SANTEE — *NO REPORT GIVEN.*

CITY OF LA MESA — *Newest Councilperson introduced herself. Action for staff to make a list of all projects in process with City. There are almost forty pages of thirty entries each. Feels city has made the process far too cumbersome and not timely. City currently has seventeen cannabis dispensaries.*

GROSSMONT HEALTHCARE DISTRICT — Approve purchase of over 7,500 at home, testing kits. They are being distributed out into the County for people who couldn't obtain kits from the federal government. Redistricting is an issue being addressed.

GROSSMONT/CUYAMACA COLLEGE DISTRICT — *NO REPORT GIVEN.*

LAKE SIDE SCHOOL DISTRICT — They are at halfway point in school year. Working with Chamber of Commerce to expose students to the business community.

OTAY WATER DISTRICT — *NO REPORT GIVEN.*

HELIX WATER DISTRICT — *NO REPORT GIVEN.*

COUNTY WATER AUTHORITY — Still below expected levels of rain and snow. New San Vicente Dam project will be funded through state funding with no increase in rates from county water users. CWA received positive credit ratings from three independent rating agencies.

LAKE SIDE CHAMBER OF COMMERCE — Touch-A-Truck is on February 27th in Lakeside.

SAN DIEGO EAST COUNTY CHAMBER OF COMMERCE — 110 East County Honors is being held later this month.

SANDAG — *NO REPORT GIVEN.*

Meeting was adjourned at 8:53 AM.

Next meeting is scheduled for March 16, 2022.



GENERAL MANAGER'S REPORT
February 16, 2022

Information:

1. News Article: "Water Authority Greenhouse Gas Emission Tracking is Climate Leadership Case Study"
2. News Article: "California Desperately Needs Rain. What are the Chances of a 'Miracle' in March?"
3. News Article: "California Drought: Charts Show Where Reservoir Levels Stand After a Dry January"
4. News Article: "Water Supplies from Glaciers May Peak Sooner Than Anticipated"
5. News Article: "Advancing the Potential for Stormwater Reuse: Investigation of Water Quality and Treatment"
6. News Article: "'Forever Chemicals' to Dominate State Toxics Policies in 2022, NGO Finds"



The Water Authority installed solar panels at three locations in 2011: its Kearny Mesa headquarters and Escondido operations center; and the Twin Oaks Valley Water Treatment Plant. Photo: Vallecitos Water District

Water Authority Greenhouse Gas Emission Tracking Is Climate Leadership Case Study

February 7, 2022

The [Water Utility Climate Alliance](#) has added the Water Authority's efforts to reduce greenhouse gas emissions to its mitigation case studies library. The case studies provide valuable information and inspiration for greenhouse gas mitigation or sewage thermal energy use projects from concept to implementation for water utilities across the U.S.

Water Authority Senior Water Resources Specialist Goldy Herbon, said case studies are developed in partnership with WUCA. Contacts are provided in each case study to facilitate follow-up and enable interested readers to learn more. WUCA recognizes the importance of greenhouse gas mitigation as a key climate adaptation strategy and an issue of climate leadership in the water sector.

"By sharing our efforts and experience in GHG reduction with our peers across the U.S., we hope to set an example for other industries and business sectors, leading to even more mitigation efforts," said Hebron. "The case studies are by no means an exhaustive list, but it is a great starting point for water utilities exploring the potential of implementing their own GHG mitigation projects. Additionally, WUCA is open to adding more GHG projects to its roster."

The Water Authority greenhouse gas mitigation case study is [on WUCA's webpage](#).

The Water Authority installed solar panels at three locations in 2011: its Kearny Mesa headquarters and Escondido operations center; and the Twin Oaks Valley Water Treatment Plant.

Energy generated by the solar power systems reduces the Water Authority's energy costs as well as GHG emissions, making agency operations more efficient for water ratepayers. Combined, the solar power systems will reduce the agency's energy expenses by nearly \$3 million over 20 years. The solar power systems were installed at no cost to the Water Authority through a 20-year power purchase agreement with CleanCapital.

Carlsbad Desalination Plant also listed



Claude "Bud" Lewis Carlsbad Desalination Plant. Photo: Poseidon Water

The Claude "Bud" Lewis Carlsbad Desalination Plant, which supplies nearly 10% of San Diego County's drinking water, [is also featured as a case study](#). The plant's energy recovery project, part of its High-Energy Efficiency Design, uses state-of-the-art pressure exchanger technology to recover and reuse a significant portion of the energy from the reverse osmosis process.

The Water Authority [recently earned Climate Registered gold status](#) from [The Climate Registry](#) for verifying and publicly reporting its greenhouse gas emissions. The effort fosters transparency for the agency's climate mitigation initiatives and will help the Water Authority track and validate emissions reductions in the future.

The Climate Registry operates North America's largest voluntary registry for greenhouse gas emissions. The Water Authority's 2019 and 2020 inventories were verified and published in The Climate Registry's public database in November, earning the agency gold status for both years.

The Water Authority first developed its Climate Action Plan in 2014 and updates it every five years. GHG emissions against a baseline and tracking progress toward State of California goals. Annual GHG inventories are provided to the board of directors.

Unique role in reducing greenhouse gas emissions



The Twin Oaks Reservoir dual solar array total production is roughly 3.6 mWh annually, enough to power 340 homes. Photo: Vallecitos Water District

The Water Authority's GHG mitigation case studies offer crucial examples of progressive GHG mitigation projects at water utilities with lessons learned during implementation. The selection of case studies represents a wide range of project types (pump optimization, wind power, and battery storage) to provide a strong starting point for utilities to learn from each other. Many of the projects can be applied equally to wastewater and stormwater utilities.

Water utilities have a unique role to play in mitigating GHGs due to the high energy usage of the water industry and being a reliable purchaser of energy, as well as being a trusted leader for other industries and business communities. A key objective for WUCA is for the alliance to continue developing practical examples and case studies of climate adaptation and climate mitigation.

The Water Authority works with its 24 member agencies to deliver water affordably and efficiently across San Diego County, and the agency has championed energy efficiency and environmental sustainability for decades.

Source: <https://www.waternewsnetwork.com/water-authority-greenhouse-gas-emission-tracking-is-climate-leadership-case-study/>

California desperately needs rain. What are the chances of a 'miracle' in March?

Amy Graff, SFGATE

Feb. 5, 2022



The San Francisco Bay Area has been dry in recent weeks. When will it rain again?
Temple Tse / 500px/Getty Images/500px

The start of the wet season was promising in California, with a record-breaking atmospheric river in October and an onslaught of storms in December, but the weather forecast has remained persistently dry since the start of the year — with no hope for rain in the immediate future.

The lack of rain during what is usually the wettest time of the year is problematic in a drought-plagued state that needs to replenish its water supply and dampen a wildfire-prone landscape. The last hope that remains for winter is a surge of precipitation in late February and in March. What are the chances of that even happening?

Long-term weather models look 16 days ahead, and Mike Anderson, the state climatologist for the California Department of Water Resources, wrote in an email that there's no rain in the forecast for anywhere in the state in the next six days, and the models that look farther out only show "a small chance for a change in conditions around February 20."

"There is great uncertainty at that lead time, though," Anderson said. "National Weather Service Climate Prediction Center's 30-day outlook now suggests below average precipitation conditions being expected."

The forecast is especially grim in the greater San Francisco Bay Area.

"I'll say it [in] one sentence: There's no rain in the forecast," said David King, a forecaster with the National Weather Service. "Definitely in the short term, none of the models are showing any shot of precipitation, and even when you look at long-term models, any signature is weak and gives you no

confidence. We're getting some systems coming through that have some clouds, but they're all high clouds and it's all high clouds that aren't going to produce any rain."

California's last hope to reach normal precipitation for the season is a so-called "Miracle March" — that is, a mega-storm or a series of wet systems in March that would make up for the water deficit caused by an abnormally dry January and February.

Anderson doesn't put much stake in a Miracle March this year. "Outlooks do not suggest a Miracle March as a potential outcome at this time," he wrote. "Forecasts at that lead time have little skill, but the water year has followed the outlooks of drier than average conditions for Jan/Feb/Mar so far."

That said, Anderson gave examples of two previous water years that show March can go either way — wet or dry. He noted that the water year from 2013 to 2014 started with a dry February, combined with a dry January. It was part of a 14-month period of record dryness when total precipitation "was less than water year 1924's low mark for water year precipitation," he wrote.

But there is one recent example of a Miracle March. In 1991, the Sierra Nevada snowpack's water content tripled across the month of March because of a series of supercharged storms.

How much rain would San Francisco need in March for it to be considered a miracle?

San Francisco has seen 16.84 inches of rain since Oct. 1, and as of Feb. 4, the city's total rainfall is 122% of average for this time of year, King said. But that percentage is dropping quickly on every day with no rain, and experts say the city is likely to end the water year, a period of 12 months running from Oct. 1 to Sept. 31, below average. In a typical water year, the city measures 22.89 inches of rain. In March, San Francisco usually records about 3 inches of rain on average and then usually no rain until at least September.

"For a Miracle March, we may need enough rain that would equal 6 or 7 inches downtown," said King.

Looking back at San Francisco weather records going back to 1850, there were 18 years where the downtown gauge saw 6 inches of rain or more.

Jan Null, a forecaster with Golden Gate Weather Services, compiled the records and said that while they may offer a hint of promise, the region appears to be locked in a dry pattern for the time being, and he doesn't have a lot of faith in a Miracle March happening.

"As far a Miracle March, I would say go to church and pray for a miracle," Null said. "There's nothing in the forecast at all. The pattern we have now is exactly the pattern in the forecast two weeks from now. That's a good indicator of what's going on."

CLIMATE

California drought: Charts show where reservoir levels stand after a dry January

Kellie Hwang, Yoohyun Jung

Feb. 8, 2022 Updated: Feb. 8, 2022 9:58 a.m.



This file photo shows Shasta Lake. A dry January with little rainfall across much of Northern California actually didn't hurt the state's water storage levels, according to data from the California Department of Water Resources.

Tom Stienstra/Tom Stienstra / The Chronicle

A dry January with little rainfall across much of Northern California actually didn't hurt the state's water storage levels, according to data from the California Department of Water Resources.

In fact, thanks to a little snowmelt, water levels were up for all reservoirs from December to January. Lake Mendocino, which has a capacity of 122,400 acre feet, saw the biggest boost from 17% of storage capacity in December to 35% in January. One acre foot is the equivalent of one acre of land covered in one foot of water. Trinity Lake, with a capacity of 2,447,650 acre feet, had the smallest increase from 29% in December to 30% in January.

For the first week of February, there was a slight increase for most reservoirs from January amounts. The Hetch Hetchy reservoir, which supplies water for San Francisco and other parts of the Bay Area, was at 77% of its 360,000-acre feet storage capacity in January compared to 73% in December, and on Feb. 7, it was up to 82%. Lakes Mendocino and Berryessa water levels stayed the same.

David Rizzardo, hydrology section manager for the California Department of Water Resources, said there are a lot of factors that affect reservoir storage. A very wet December produced ample snowfall, which is still sitting at high elevations.

“You don’t see runoff right away, the snow is still up there, frozen, doing what we want it to do,” he said. “The snowpack acts as a natural reservoir and slowly releases water.”

Rizzardo said there was a “decent amount of flow into the reservoirs into January, even though weather-wise it was bone dry,” a result of lower elevation snow at 4,000 to 6,000 feet making it’s way into the reservoirs.

So while that is “kind of good news,” he said, things start to look more grim after January produced paltry rainfall and so far, February has also been dry.

And, the current water storage amounts are well below the historical averages for this time of year. For example, the average storage level for Feb. 7 is usually 65% of capacity for Trinity Dam, but currently it’s at only 31%. Lake Shasta and Mendocino are also well below average right now. Hetch Hetchy is the only reservoir above its average storage of 63%, and is currently 82% full.

After record snowfall in December led to an incredibly dry January, there are renewed concerns of drought. And early forecasts show the rest of the wet season is not likely to produce enough precipitation. While it may seem that December’s production could get us through the rest of the season, Rizzardo explains that “in hydrology, you need consistent water shed to keep soils happy.” He fears that without more precipitation this season, we’ll enter our third very dry year.

“It certainly looks dry at least until the last week in February,” he said. “The worst possible scenario is it just remains completely dry. We’ve been at zero now for several weeks, and we really want to see that turn around.”

Source: <https://www.sfchronicle.com/climate/article/Charts-show-where-California-reservoir-totals-16840166.php>

Water Supplies From Glaciers May Peak Sooner Than Anticipated

New satellite mapping of the world's mountain ice suggests Earth's glaciers may contain less water than previously thought.



Tourists visited the Perito Moreno Glacier at Los Glaciares National Park in Argentina. Credit...Natacha Pisarenko/Associated Press

By [Raymond Zhong](#)

Feb. 7, 2022

The world's glaciers may contain less water than previously believed, a new study has found, suggesting that freshwater supplies could peak sooner than anticipated for millions of people worldwide who depend on glacial melt for drinking water, crop irrigation and everyday use.

The latest findings are based on satellite images taken during 2017 and 2018. They are a snapshot in time; scientists will need to do more work to connect them with long-term trends. But they imply that further global warming could cause today's ice to vanish in many places on a shorter timeline than previously thought.

In the tropical Andes, for instance, the study estimated glacier volume to be 27 percent less than the scientific consensus as of a few years ago. In parts of Russia and northern Asia, glacier volume was 35 percent smaller, the study found.

Worldwide, the study found 11 percent less ice in the glaciers than had been estimated earlier. In the high mountains of Asia, however, it found 37 percent more ice, and in Patagonia and the central Andes, 10 percent more.

The new estimates come from a more detailed and realistic digital reconstruction of Earth's 215,000 glaciers than had been possible before, said Romain Millan, a geophysicist at the Institute of Environmental Geosciences in Grenoble, France, and lead author of [the study](#), which was published on Monday in the journal *Nature Geoscience*.

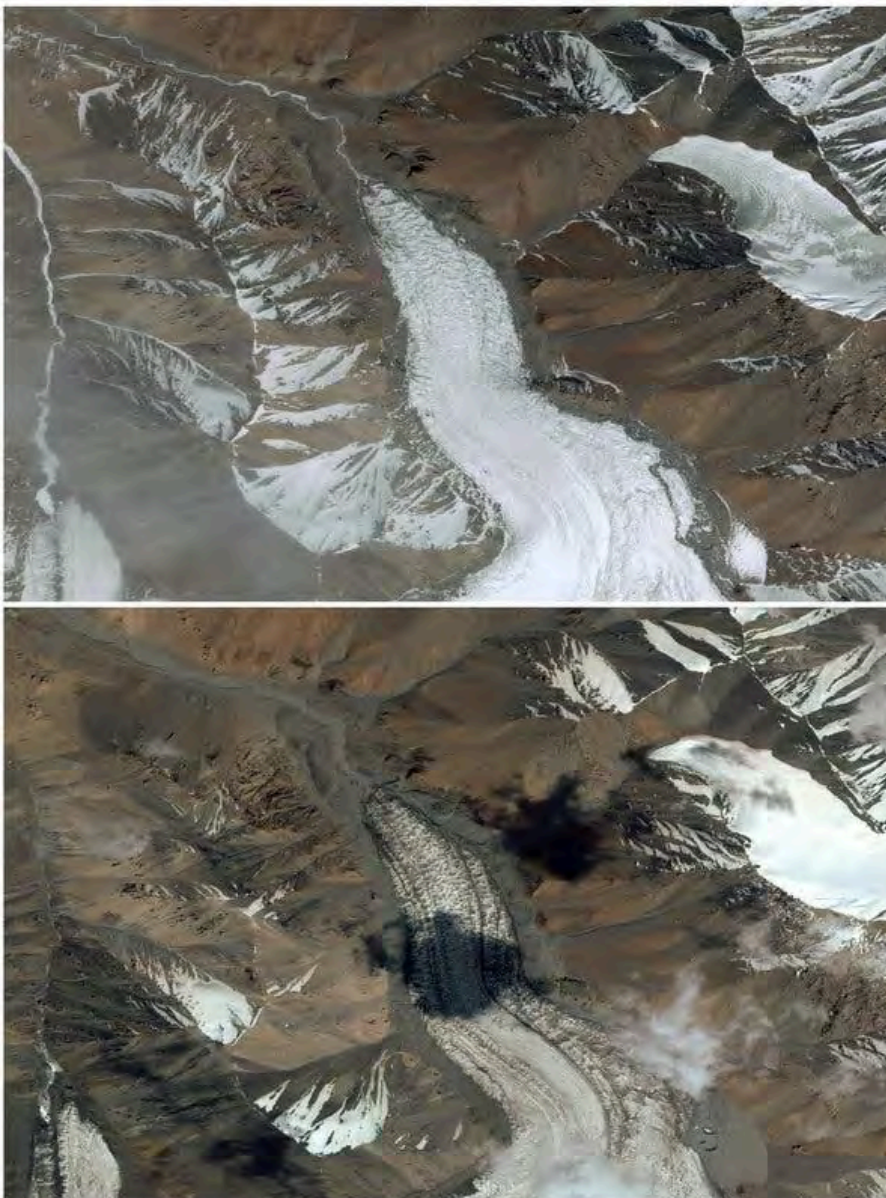
Even so, “we still have lots of uncertainty in some regions,” Dr. Millan said, mostly because of the scarcity of on-the-ground measurements, which help to inform any digital reconstruction. Those regions, including the Andes and the Himalayas, “are the ones where people rely on fresh water coming from glaciers,” he said.

The melting of glaciers is threatening livelihoods and reshaping landscapes in North America, Europe, New Zealand and many places in between.

In the upper Indus basin of the Himalayas, which straddles Afghanistan, China, India and Pakistan, glacial melt accounts for nearly half of river flow. Yet logistical and political challenges mean scientists can monitor only a small share of the Himalayan glaciers, said Anjal Prakash, a water expert at the Indian School of Business in Hyderabad who did not work on the new study.

“It’s a data-deficient region,” Dr. Prakash said. “Countries do not cooperate. They don’t share information with each other.”

With 1.5 billion people benefiting from the water and other resources of the Himalayas, while also facing growing risks of [severe floods](#), the region “is just waiting for a disaster to happen,” Dr. Prakash said.



Satellite images comparing the Laohugou No. 12 glacier in China in September 2018, top, and again in July 2020. Credit...Maxar Technologies, via Reuters

As glaciers have melted, they have contributed to rising global sea levels. The new study suggests that, all together, they could add 10 inches to the oceans instead of the foot or so that was estimated earlier. Either way, it is small compared with what the melting of Greenland and Antarctica could add to sea levels in the far future if the planet heats to catastrophic levels.

To produce their new estimates of glacier dimensions, Dr. Millan and his colleagues combined more than 811,000 satellite images to clock the speeds at which the glaciers' surfaces are moving. Glaciers may look like solid, unchanging masses, but in fact, they are constantly in motion: sliding across the terrain; deforming under their own weight; flowing, syrup-like, down valleys. This movement is a clue to the amount of ice that is locked inside.

"The thickness of the glacier controls how fast it moves," said Daniel Farinotti, a glaciologist at the Swiss university ETH Zurich who did not work on the new study. "And so, vice versa, if you know how fast it moves, you can say something about the thickness."

The high resolution of the satellite images allowed Dr. Millan and his colleagues to capture fine variations in the glaciers' thickness, such as narrow troughs in the ground underneath. They could map small ice caps in South America, Europe and New Zealand that had never been mapped before.

In certain ways, scientists understand less about some of the glaciers draped over the world's mountains than they do about the much larger ice sheets of Greenland and Antarctica, said Mathieu Morlighem, an earth scientist at Dartmouth College who worked on the new study.

Only a few thousand glaciers worldwide have been measured on-site. In places like North America, the balmy climate means more pockets of water in the glaciers, which can thwart radar measurements. Compared with the giant ice sheets, where fast-moving ice has smoothed the underlying bedrock over time, the terrain beneath mountain glaciers can be "just so complex," Dr. Morlighem said, making it harder to gauge their dimensions.

"Just 10, 15 years ago, we barely knew the area of the glaciers," said Regine Hock, a geoscientist at the University of Oslo in Norway who was not involved in the new research. Estimates of glacier volume were "very, very rough," she said.

Today's "data revolution" is helping scientists make better predictions about local and regional water resources, even if the big picture globally — that the glaciers will thin substantially during this century — is unlikely to change much, Dr. Hock said. "There is only so much ice," she said, "and then it's gone."

Source: <https://www.nytimes.com/2022/02/07/climate/glaciers-water-global-warming.html>

Article / February 1, 2022

Advancing The Potential For Stormwater Reuse: Investigation Of Water Quality And Treatment

By U.S. EPA



Managing stormwater runoff is a complex environmental challenge for communities across the country. As stormwater runoff flows into nearby waterways, it can collect various pollutants including trash, chemicals, oils, and dirt, which can lead to environmental and public health impacts. During heavy storm events, runoff may combine with domestic and industrial wastewater in sewer systems and contribute to sewer overflows. Finding sustainable solutions to the impacts of stormwater runoff can be challenging. Stormwater collection systems are often used to capture rainwater before it can pick up harmful contaminants and deposit them into waterways. But then the question becomes: what to do with the collected rainwater?

Water reuse, also known as water recycling, is the action of reclaiming water from a variety of sources and reusing it for beneficial purposes such as agriculture, irrigation, potable water supplies, groundwater replenishment, industrial processes, and environmental restoration. Water reuse enhances sustainability, water security, and resilience by providing alternatives to existing water resources. Stormwater reuse involves storing water runoff from storm events and using it for other purposes.

There is limited data to determine the suitability of stormwater for direct reuse in surface irrigation systems. In locations with limited water supplies, water reuse can conserve resources and benefit surface water quality.

To assess and characterize the pathogenic, microbial, and chemical content of collected stormwater, EPA researchers collaborated with the Minnesota Department of Health, local universities, and other stakeholders on a project to evaluate samples from stormwater collection systems that could potentially be harvested for landscaping and agricultural irrigation near Chicago, Cincinnati, Cleveland, and Minneapolis.

Anita Anderson of the Minnesota Department of Health stated, “This project will help Minnesota to keep moving forward with stormwater reuse as a tool to conserve water resources and improve surface water quality while protecting public health.”

For this study, samples were collected from various land use or collection areas such as rooftop collection tanks, permeable pavement catch basins, parking lots, underground storage tanks, and vegetated lands. The project team also collected information on the characteristics of the sample sources, including infrastructure age, tributary area, land use (e.g., roofs, parking lots, fields), end-use (e.g., irrigation, vehicle wash, graywater), size of storage, treatment (e.g., sediment screens, filtration, chlorination, UV) and storage type (e.g., above ground and underground, tanks, earthen basins).

This research project provided relevant information on the extent of physical, chemical, and microbial contamination of reuse waters and suitability of stormwater reuse for direct irrigation. While the study found that several waterborne pathogens were present in untreated stormwater samples, filtration and disinfection were found to be effective treatment technologies to reduce public health risks. A few samples contained low levels of copper and manganese that exceeded recommended U.S. EPA irrigation water guidelines.

EPA provided project partners with preliminary water quality results during a virtual presentation on “[Characterizing Stormwater for Reuse in Irrigation](#)” shared at the Environmental and Water Resources Institute World Environment and Water Resources Congress in June 2021.

The results of this research will help partners make informed decisions about stormwater reuse projects and will also fill data gaps related to stormwater water quality and reuse practices. This project has also provided information for communities to address financial challenges related to the costs to construct, operate, and maintain stormwater infrastructure.

In 2021, EPA [announced the establishment](#) of the Sewer Overflow and Stormwater Reuse Municipal Grants (OSG) program, a program aimed at awarding grants to states, the District of Columbia, and U.S. territories for the purposes of supporting critical stormwater infrastructure projects in communities. More information about EPA’s OSG program is available [here](#).

Source: <https://www.wateronline.com/doc/advancing-the-potential-for-stormwater-reuse-investigation-of-water-quality-and-treatment-0001>

'Forever chemicals' to dominate state toxics policies in 2022, NGO finds

BY [SHARON UDASIN](#) - 02/03/22 09:00 AM EST



© Associated Press - Mike Groll

The cancer-linked compounds known as “forever chemicals” will top the charts as the number-one driver of state-level toxic chemical policies in 2022, an environmental health umbrella group announced on Thursday.

“State legislatures recognize the severity of the toxic PFAS crisis we’re facing and they’re taking action,” Sarah Doll, national director of the Safer States network, said in a statement. “2022 will be another groundbreaking year when it comes to addressing toxic ‘forever chemicals’ in state policies.”

Per-and polyfluoroalkyl substances (PFAS), known for their propensity to linger both in the human body and in the environment, are key components in a wide range of household goods, as well as a type of foam used to fight jet-fuel fires. Some of these so-called forever chemicals — which include

thousands of different compounds — are linked to kidney cancer, thyroid disease and other illnesses.

PFAS have been present in the nation's waterways, soil and products for decades, but only recently have they begun to spark media and legislative attention.

To date, the Environmental Protection Agency has only set non-binding health advisories for two types of PFAS but has announced plans to regulate these two compounds in drinking water by 2023. And while Congress has sought action on this issue, it has thus far been up to individual states to set standards for these chemicals.

There are currently 32 states slated to consider more than 210 PFAS-related policies in 2022, according to Safer States, a national network of state-level environmental health organizations.

“To foster clean, healthy, and thriving communities, states recognize how critical it is to protect residents from toxic threats,” Doll said. “States continue to lead the way in addressing these serious problems with urgency and innovative solutions.”

At least 17 states are considering implementing policies to address PFAS clean up, management and accountability, including medical monitoring for exposure victims, while at least 19 states are evaluating legislation that would set standards for PFAS in drinking water, according to Safer States.

In addition, at least 10 of these states are weighing restrictions on all PFAS except those that are unavoidable, and/or requiring disclosure of their inclusion in products, the group reported. Six states are also considering policies that would restrict the use of such chemicals in cosmetics or children's products.

Source: <https://thehill.com/policy/equilibrium-sustainability/592625-forever-chemicals-to-dominate-state-toxics-policies-in-2022>



BOARD AGENDA REPORT

Meeting Date: 2-16-2022
Dept. Head: Karen Jassoy
Submitted by: Karen Jassoy
Department: Finance
Approved by: Allen Carlisle, CEO/GM

SUBJECT: MONTHLY DELINQUENCY REPORT – JANUARY 2022

RECOMMENDATION(S):

Note and file; informational report only.

ALTERNATIVE(S):

n/a

ATTACHMENT(S):

1. Customer Service Delinquency Report for January 2022

FUNDING:

Requested amount: n/a

Budgeted amount:

Are funds available? ☐ Yes ☐ No

Project cost to date:

PRIOR BOARD/COMMITTEE CONSIDERATION:

STRATEGIC PLAN IMPLEMENTATION:

This agenda item is consistent with the District's Strategic Plan and meets one or more of the following Strategic Goals: Provide safe, reliable water, recycled water and sewer services; Ensure fiscal health and competitively sustainable rates; Enhance customer communications and education; Increase water, wastewater and energy independence; Maintain workforce excellence; Expand park and recreation opportunities.

Reviewed by:

Dept Head ☒
Finance ☐
Legal Counsel ☐
Standard Form ☐

Action Required:

Motion ☐
Resolution ☐
Ordinance ☐
None ☒

Policy Updates:

Rules & Regulations ☐
Standard Practices ☐
& Policies

Action Taken:

As Recommended _____
Reso/Ord. No. _____
Other _____

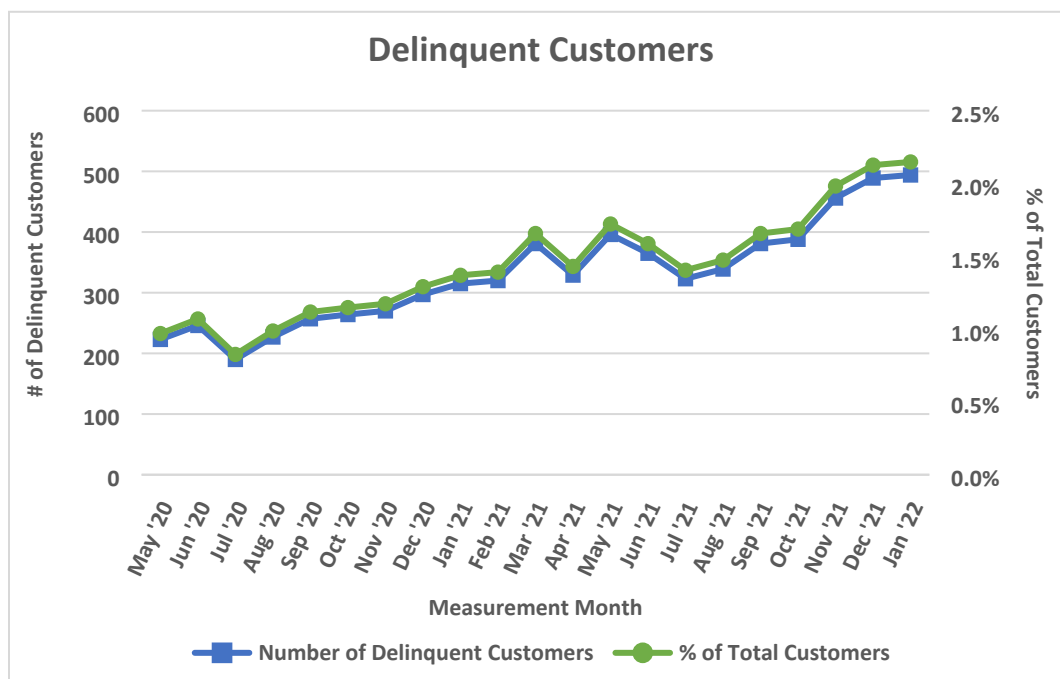
EXECUTIVE SUMMARY:

At the July 7, 2021 Board meeting, staff was asked to provide a periodic report on delinquencies. That report is included as Attachment 1. The remainder of this agenda report provides context and analysis.

DESCRIPTION:

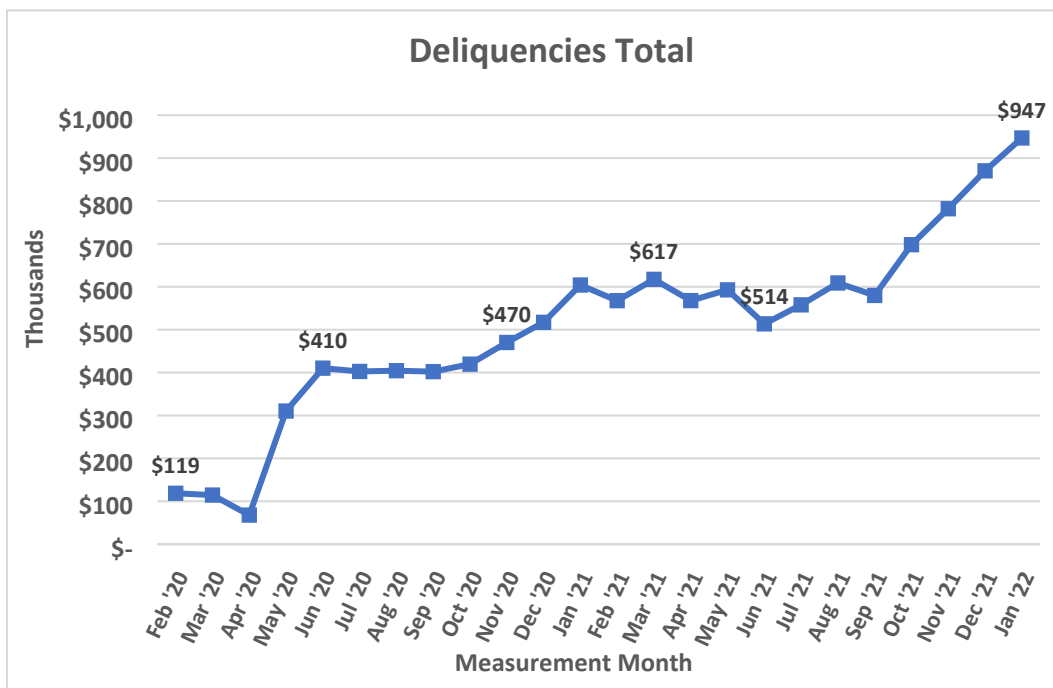
In March 2020, Padre Dam temporarily suspended late fees and water shutoffs for non-payment in an effort to support customers facing financial challenges during the COVID-19 pandemic. In April 2020, Governor Newsom issued an Executive Order (N-42-20) which formally suspended the ability for water systems to discontinue residential service and essential businesses for non-payment.

Padre Dam's delinquency rate has been historically low. However, with the suspension of late fees, shut-offs and other challenges during the COVID-19 pandemic, the District has seen an increase in delinquencies. Our Customer Service staff had done a tremendous job communicating with and assisting customers during this period. Their hard work has kept delinquencies stable and limited in scope. 2.15% of our 23,000 customers make up current delinquencies and 20 of those customers make up 48% of the delinquency balance. The following chart shows the number of delinquent customers and the percent of total customers they represent. Delinquencies are identified by the month that the bill is measured as delinquent.

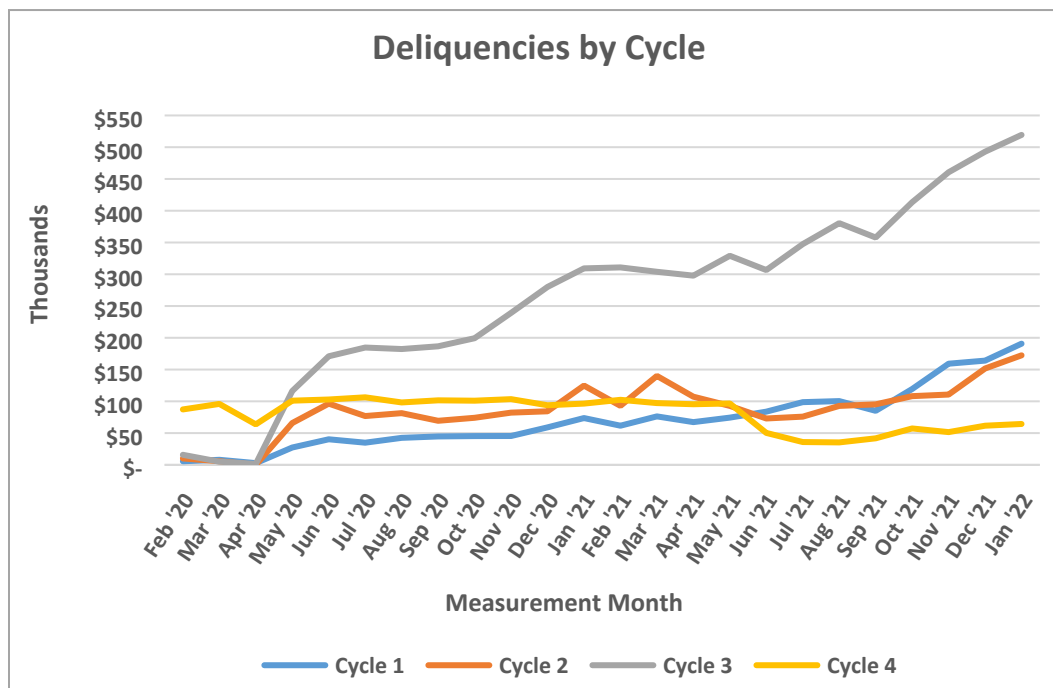


The chart on the following page shows total delinquencies since February 2020 (i.e. bills dated November 2019 and prior). There was a large increase in delinquencies at the outset of the pandemic, followed by a leveling off as the economy began to open up. In November 2020, delinquencies began to increase again until March 2021. Delinquencies then declined to \$514K in June 2021 but have grown steadily since

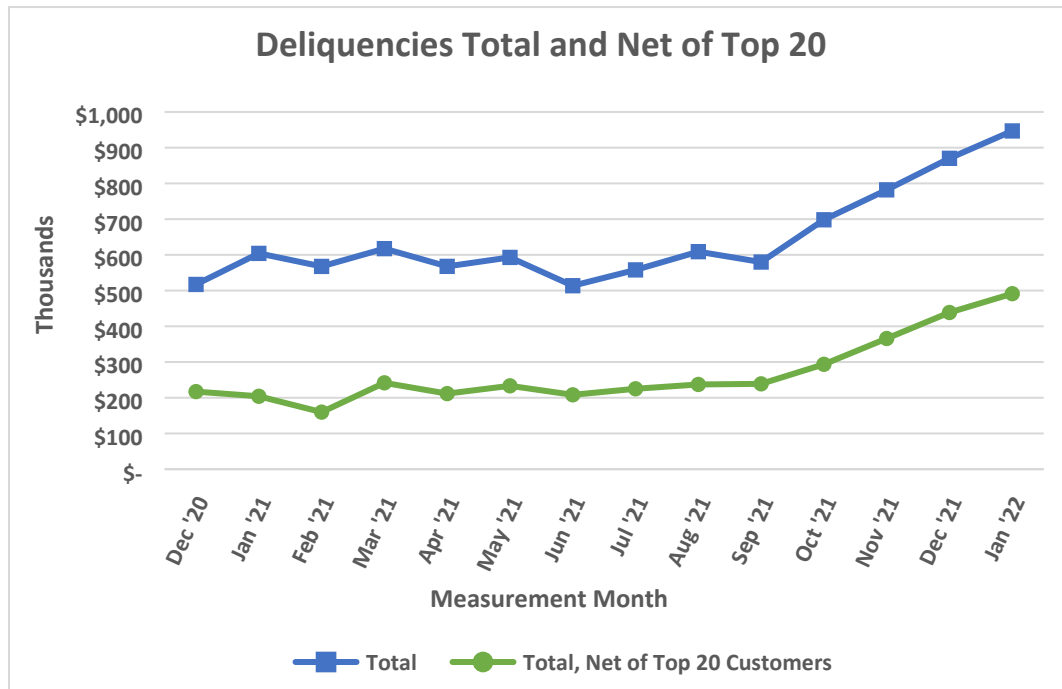
September 2021. Delinquencies as of January 2022 were \$947K. A big driver for this increase is late fees which have added roughly \$100K each month since they resumed in October.



The following graph shows delinquencies by Cycle. Cycle 3 has the largest delinquency amount and is biggest driver behind the uptick since June 2021. One customer makes up 59% of Cycle 3's balance and 32% of total delinquencies. Cycle 1 and Cycle 2 have also notably increased since June 2021 (\$107K and \$213K respectively) while delinquencies in Cycle 4 has stayed relatively flat.



As shown earlier, 494 or 2.15% of customer accounts make up the current delinquency balance. A concentration of 20 customers make up 48% of total delinquencies (\$456K) while one of these customers accounts for \$304K/67% of that amount (or 32% of total delinquencies). The following chart compares total delinquencies to delinquencies net of the top 20 delinquent customers.



RECOMMENDATION(S):

Note and file; informational report only.

**CYCLE DELINQUENCY STEPS
REPORT DATE: JANUARY 2022**

ATTACHMENT 1

		1ST EMAIL SENT			IVR CALL			STAFF CALL			SHUTOFF DATE			WEEK AFTER SHUTOFF DATE			RUNNING TOTAL DELINQUENT					% OF TOTAL BILLED				
CYCLE #	BILL MONTH	DATE	# CUST	PD TOTAL	DATE	# CUST	TOTAL DUE	DATE	# CUST	TOTAL DUE	DATE	# CUST	TOTAL DUE	DATE	# CUST	TOTAL DUE	AS OF DATE	# CUST	DELINQUENT AMOUNT	INC (DEC) PRIOR MONTH	% OF CUSTOMERS	MONTHLY BILLING	% DELINQUENT MONTHLY BILL	CUMULATIVE BILLING	% DELINQUENT CUM BILLED	
CYCLE #	BILL MONTH	1ST EMAL DATE	1ST EMAL CUST	1ST EMAL TOTAL	IVR DATE	IVR CUST	IVR TOTAL	STAFF CALL DATE	STAFF CALL CUST	STAFF CALL TOTAL	S/O DATE	S/O CUST	S/O TOTAL	S/O+7 DATE	S/O+7 WEEK	S/O+7 TOTAL	RUNNING TOTAL	# DELINQ CUST	DELINQUENT AMOUNT	CYCLE INCREASE						
1	NOV				NA			NA			12/26/20	15	\$ 5,637													
2	NOV				NA			NA			1/2/20	26	\$ 10,073													
3	NOV				NA			NA			1/8/20	35	\$ 15,809													
4	NOV				NA			NA			1/15/20	13	\$ 87,221					89	\$ 118,739		0.39%	\$ 5,510,323				
1	DEC				NA			NA			1/22/20	21	\$ 7,951					95	\$ 121,053		0.41%					
2	DEC				NA			NA			1/29/20	13	\$ 5,653					82	\$ 116,633		0.36%					
3	DEC				NA			NA			2/5/20	14	\$ 4,994					61	\$ 105,819		0.27%					
4	DEC				NA			NA			2/12/20	20	\$ 95,914					68	\$ 114,512		0.30%	\$ 4,945,573				
1	JAN				NA			NA			3/4/20	7	\$ 2,713					54	\$ 109,274		0.23%					
2	JAN				NA			NA			3/11/20	3	\$ 1,434					44	\$ 105,056		0.19%					
3	JAN				NA			NA			3/18/20	11	\$ 63,711					41	\$ 163,773		0.18%					
4	JAN				NA			NA			3/25/20	20	\$ 104,282					41	\$ 172,140		0.18%	\$ 5,159,642				
1	FEB	4/2/20	208		NA	NA	NA	4/23/20	80	\$ 38,369	4/23/20	80	\$ 39,369	4/30/20	54	\$ 27,296										
2	FEB	4/9/20	204		NA	NA	NA	4/30/20	114	\$ 82,570	4/30/20	114	\$ 82,570	5/7/20	76	\$ 65,812										
3	FEB	4/16/20	192	2.6%	NA	NA	NA	5/6/20	133	\$ 139,151	5/7/20	96	\$ 129,886	5/14/20	81	\$ 116,227										
4	FEB							5/14/20	15	\$ 103,891	5/14/20	15	\$ 103,891	5/21/20	12	\$ 101,025	5/21/20	223	\$ 310,360	\$ 138,220	0.97%	\$ 4,290,585	7.2%	\$ 4,290,585	7.2%	
1	MAR	4/30/20	211		\$ 52,894	5/14/20	103	\$ 68,226	5/20/20	78	\$ 52,018	5/21/20	69	\$ 47,302	5/28/20	55	\$ 40,234	5/28/20	224	\$ 323,297		0.97%				
2	MAR	5/7/20	229		\$ 97,400	5/21/20	140	\$ 154,380	5/27/20	111	\$ 122,748	5/28/20	103	\$ 119,491	6/4/20	86	\$ 96,352	6/4/20	234	\$ 353,838		1.02%				
3	MAR	5/15/20	240		\$ 125,784	5/26/20	219	\$ 148,414	6/3/20	112	\$ 182,223	6/4/20	102	\$ 176,490	6/11/20	87	\$ 170,900	6/11/20	240	\$ 408,511		1.04%				
4	MAR	5/26/20	47	3.2%	\$ 110,851	5/28/20	41	\$ 114,859	6/10/20	27	\$ 110,525	6/11/20	19	\$ 109,081	6/18/20	18	\$ 102,866	6/18/20	246	\$ 410,352	\$ 99,991	1.07%	\$ 4,646,429	8.8%	\$ 8,937,014	4.6%
1	APR	6/4/20	167	3.0%	\$ 106,790	6/11/20	109	\$ 62,749	6/24/20	73	\$ 42,308	6/25/20	66	\$ 38,601	7/2/20	59	\$ 34,887	7/2/20	250	\$ 405,006	\$ 81,708	1.09%				
2	APR	6/11/20	185	2.8%	\$ 115,019	6/18/20	133	\$ 124,823	7/1/20	82	\$ 90,869	7/2/20	73	\$ 86,655	7/9/20	62	\$ 76,838	7/9/20	226	\$ 385,491	\$ 31,653	0.98%				
3	APR	6/18/20	186	2.5%	\$ 185,203	6/25/20	139	\$ 229,020	7/8/20	71	\$ 194,042	7/9/20	60	\$ 188,783	7/16/20	49	\$ 184,651	7/16/20	188	\$ 399,242	\$ (9,269)	0.82%				
4	APR	6/25/20	39	2.5%	\$ 90,764	7/2/20	34	\$ 108,578	7/15/20	33	\$ 107,414	7/16/20	19	\$ 103,649	7/23/20	20	\$ 106,307	7/23/20	190	\$ 402,683	\$ (7,668)	0.83%	\$ 4,352,414	9.3%	\$ 13,289,428	3.0%
1	MAY	7/2/20	176	2.5%	\$ 73,985	7/9/20	131	\$ 94,814	7/22/20	85	\$ 69,347	7/23/20	79	\$ 46,170	7/30/20	72	\$ 42,505	7/30/20	203	\$ 410,301	\$ 5,295	0.88%				
2	MAY	7/9/20	181	2.5%	\$ 125,628	7/16/20	139	\$ 139,040	7/28/20	100	\$ 118,190	7/30/20	91	\$ 95,050	8/6/20	69	\$ 81,384	8/6/20	210	\$ 414,847	\$ 29,355	0.91%				
3	MAY	7/16/20	197	2.6%	\$ 236,501	7/23/20	146	\$ 249,602	8/4/20	99	\$ 216,493	8/6/20	79	\$ 213,209	8/13/20	66	\$ 182,303	8/13/20	227	\$ 412,499	\$ 13,257	0.99%				
4	MAY	7/23/20	56	2.7%	\$ 111,867	7/30/20	44	\$ 116,345	8/12/20	21	\$ 99,118	8/13/20	20	\$ 98,937	8/20/20	20	\$ 98,226	8/20/20	227	\$ 404,417	\$ 1,734	0.99%	\$ 5,158,450	7.8%	\$ 18,447,878	2.2%
1	JUN	7/30/20	184	2.7%	\$ 90,596	8/6/20	160	\$ 111,525	8/19/20	110	\$ 64,134	8/20/20	91	\$ 53,096	8/27/20	77	\$ 44,714	8/27/20	232	\$ 406,626	\$ (3,675)	1.01%				
2	JUN	8/6/20	195	2.7%	\$ 126,039	8/13/20	163	\$ 134,106	8/25/20	104	\$ 91,734	8/27/20	82	\$ 79,938	9/3/20	67	\$ 69,364	9/3/20	230	\$ 394,606	\$ (20,241)	1.00%				
3	JUN	8/13/20	210	2.8%	\$ 228,154	8/20/20	185	\$ 261,117	9/1/20	128	\$ 234,282	9/3/20	103	\$ 195,573	9/8/20	88	\$ 186,590	9/8/20	252	\$ 398,893	\$ (13,606)	1.10%				
4	JUN	8/20/20	60	2.8%	\$ 103,879	8/27/20	52	\$ 107,054	9/8/20	42	\$ 104,734	9/10/20	30	\$ 102,631	9/14/20	25	\$ 101,556	9/14/20	257	\$ 402,223	\$ (2,194)	1.12%	\$ 5,558,507	7.2%	\$ 24,006,384	1.7%
1	JUL	9/3/20	187	2.8%	\$ 155,292	9/10/20	145	\$ 107,890	9/22/20	104	\$ 62,179	9/24/20	85	\$ 53,434	9/29/20	72	\$ 45,277	9/29/20	252	\$ 402,786	\$ (3,840)	1.10%				
2	JUL	9/10/20	183	2.8%	\$ 153,518	9/17/20	141	\$ 117,201	9/29/20	110	\$ 92,980	10/1/20	97	\$ 81,506	10/5/20	83	\$ 74,078	10/5/20	268	\$ 407,500	\$ 12,895	1.17%				
3	JUL	9/17/20	207	2.8%	\$ 288,369	9/24/20	150	\$ 257,656	10/6/20	105	\$ 227,736	10/8/20	90	\$ 202,020	10/12/20	82	\$ 199,323	10/12/20	262	\$ 420,233	\$ 21,341	1.14%				
4	JUL	9/24/20	54	2.7%	\$ 106,963	10/1/20	47	\$ 112,189	10/13/20	37	\$ 102,377	10/15/20	27	\$ 100,989	10/19/20	27	\$ 100,989	10/19/20	264	\$ 419,666	\$ 17,443	1.15%	\$ 6,819,845	6.2%	\$ 30,826,230	1.4%
1	AUG	10/1/20	189	2.8%	\$ 97,449	10/8/20	139	\$ 106,702	10/20/20	101	\$ 74,418	10/22/20	86	\$ 56,407	10/27/20	67	\$ 45,411	10/27/20	259	\$ 419,801	\$ 17,014	1.13%				
2	AUG	10/8/20	192	2.8%	\$ 109,222	10/15/20	150	\$ 122,940	10/27/20	102	\$ 94,809	10/29/20	93	\$ 86,677	11/2/02	85	\$ 82,193	11/2/02	261	\$ 427,916	\$ 20,415	1.13%				
3	AUG	10/15/20	215	2.8%	\$ 251,149	10/22/20	171	\$ 380,497	11/3/20	109	\$ 253,062	11/5/20	102	\$ 248,968	11/9/20	89	\$ 239,165	11/9/20	268	\$ 467,758	\$ 47,524	1.17%				
4	AUG	10/22/20	68	2.9%	\$ 106,132	10/29/20	55	\$ 108,902	11/12/20	30	\$ 103,746	11/14/20	30	\$ 103,747	11/16/20	29	\$ 103,427	11/16/20	270	\$ 470,196	\$ 50,530	1.17%	\$ 6,034,006	7.8%	\$ 36,860,235	1.3%
1	SEP	10/29/20	214	3.0%	\$ 107,175	11/5/20	162	\$ 113,466	11/17/20	103	\$ 71,415	11/19/20	91	\$ 64,842	11/23/20	82	\$ 58,989	11/23/20	285	\$ 483,774	\$ 63,973	1.24%				

CYCLE DELINQUENCY STEPS
REPORT DATE: JANUARY 2022

CYCLE #	BILL MONTH	1ST EMAIL SENT				IVR CALL			STAFF CALL			SHUTOFF DATE			WEEK AFTER SHUTOFF DATE			RUNNING TOTAL DELINQUENT					% OF TOTAL BILLED			
		DATE	# CUST		PD TOTAL	DATE	# CUST	TOTAL DUE	DATE	# CUST	TOTAL DUE	DATE	# CUST	TOTAL DUE	DATE	# CUST	TOTAL DUE	AS OF DATE	# CUST	DELINQUENT AMOUNT	INC (DEC) PRIOR MONTH	% OF CUSTOMERS	MONTHLY BILLING	% DELINQUENT MONTHLY BILL	CUMULATIVE BILLING	% DELINQUENT CUM BILLED
2	SEP	11/5/20	206	3.1%	\$ 123,198	11/12/20	155	\$ 120,949	11/24/20	108	\$ 91,756	11/30/20	96	\$ 87,576	12/3/20	86	\$ 84,301	12/3/20	286	\$ 485,882	\$ 57,967	1.24%				
3	SEP	11/12/20	254	3.2%	\$ 290,443	11/19/20	196	\$ 276,982	12/1/20	141	\$ 306,458	12/3/20	116	\$ 288,280	12/7/20	105	\$ 280,048	12/7/20	302	\$ 526,766	\$ 59,008	1.31%				
4	SEP	11/19/20	71	3.2%	\$ 108,685	11/30/20	52	\$ 99,391	12/8/20	31	\$ 95,697	12/10/20	26	\$ 94,238	12/14/20	24	\$ 93,822	12/14/20	297	\$ 517,161	\$ 46,964	1.29%	\$ 6,257,644	8.3%	\$ 43,117,879	1.2%
1	OCT	12/3/20	236	3.3%	\$ 127,296	12/10/20	190	\$ 139,038	12/15/20	155	\$ 123,915	12/28/20	103	\$ 80,063	12/31/20	92	\$ 73,654	12/31/20	307	\$ 531,825	\$ 48,051	1.33%				
2	OCT	12/10/20	228	3.4%	\$ 192,273	12/17/20	177	\$ 203,985	12/22/20	157	\$ 161,542	1/4/21	108	\$ 133,058	1/11/21	89	\$ 124,796	1/11/21	310	\$ 572,320	\$ 86,437	1.35%				
3	OCT	12/17/20	257	3.4%	\$ 320,743	12/24/20	183	\$ 340,947	12/29/20	170	\$ 335,334	1/7/21	106	\$ 309,258	1/11/21	106	\$ 309,258	1/11/21	311	\$ 601,529	\$ 74,764	1.35%				
4	OCT	12/24/20	65	3.4%	\$ 106,332	12/31/20	51	\$ 103,368	1/5/21	41	\$ 103,367	1/14/21	31	\$ 103,368	1/18/21	28	\$ 96,403	1/18/21	315	\$ 604,111	\$ 86,951	1.37%	\$ 6,912,047	8.7%	\$ 50,029,926	1.2%
1	NOV	12/31/20	246	3.5%	\$ 79,615	1/7/21	174	\$ 149,135	1/12/21	130	\$ 95,862	1/21/21	115	\$ 88,596	1/25/21	83	\$ 61,638	1/25/21	306	\$ 592,096	\$ 60,271	1.33%				
2	NOV	1/7/21	211	3.4%	\$ 145,254	1/14/21	179	\$ 168,364	1/19/21	148	\$ 156,970	1/28/21	118	\$ 136,827	2/1/21	96	\$ 92,887	2/1/21	313	\$ 560,186	\$ (12,133)	1.36%				
3	NOV	1/14/21	267	3.4%	\$ 334,301	1/21/21	223	\$ 354,212	1/26/21	165	\$ 337,753	2/4/21	119	\$ 317,012	2/8/21	102	\$ 310,784	2/8/21	309	\$ 561,712	\$ (39,817)	1.34%				
4	NOV	1/21/21	130	3.7%	\$ 95,892	1/28/21	64	\$ 106,515	2/2/21	46	\$ 103,821	2/11/21	40	\$ 102,681	2/16/21	39	\$ 102,361	2/16/21	320	\$ 567,670	\$ (36,442)	1.39%	\$ 5,503,112	10.3%	\$ 55,533,038	1.0%
1	DEC	1/28/21	217	3.6%	\$ 64,598	2/4/21	159	\$ 53,511	2/9/21	133	\$ 93,246	2/18/21	112	\$ 81,381	2/22/21	103	\$ 76,274	2/22/21	340	\$ 582,306	\$ (9,790)	1.48%				
2	DEC	2/4/21	234	3.7%	\$ 121,868	2/11/21	176	\$ 182,859	2/16/21	151	\$ 169,948	2/25/21	105	\$ 145,650	3/1/21	103	\$ 139,976	3/1/21	347	\$ 629,395	\$ 69,208	1.51%				
3	DEC	2/11/21	274	3.7%	\$ 326,108	2/18/21	215	\$ 332,098	2/23/21	174	\$ 332,098	3/4/21	142	\$ 332,098	3/8/21	135	\$ 303,904	3/8/21	380	\$ 622,515	\$ 60,803	1.65%				
4	DEC	2/18/21	85	3.5%	\$ 110,268	2/25/21	60	\$ 104,498	3/2/21	46	\$ 101,941	3/11/21	42	\$ 101,031	3/15/21	40	\$ 97,214	3/15/21	381	\$ 617,368	\$ 49,699	1.66%	\$ 4,943,149	12.5%	\$ 60,476,187	1.0%
1	JAN	3/4/21	217	3.5%	\$ 104,784	3/11/21	161	\$ 107,714	3/16/21	136	\$ 95,863	3/25/21	95	\$ 69,948	4/5/21	90	\$ 67,271	4/5/21	368	\$ 608,365	\$ 26,060	1.60%				
2	JAN	3/11/21	217	3.4%	\$ 124,058	3/18/21	153	\$ 130,733	3/23/21	130	\$ 121,507	4/1/21	110	\$ 111,657	4/12/21	101	\$ 107,287	4/12/21	366	\$ 575,676	\$ (53,719)	1.59%				
3	JAN	3/18/21	252	3.4%	\$ 313,108	3/25/21	191	\$ 331,590	3/30/21	157	\$ 331,590	4/8/21	133	\$ 310,105	4/19/21	107	\$ 297,827	4/19/21	338	\$ 569,599	\$ (52,916)	1.47%				
4	JAN	3/25/21	70	3.3%	\$ 111,986	4/1/21	61	\$ 109,426	4/6/21	40	\$ 104,596	4/15/21	35	\$ 96,513	4/26/21	31	\$ 95,411	4/26/21	329	\$ 567,796	\$ (49,572)	1.43%	\$ 5,483,416	10.4%	\$ 65,959,603	0.9%
1	FEB	4/1/21	214	3.3%	\$ 100,491	4/8/21	162	\$ 108,068	4/13/21	124	\$ 88,580	4/22/21	99	\$ 75,910	4/26/21	96	\$ 74,337	4/26/21	335	\$ 574,862	\$ (33,504)	1.46%				
2	FEB	4/8/21	204	3.2%	\$ 127,130	4/15/21	162	\$ 121,465	4/20/21	132	\$ 100,580	4/29/21	117	\$ 93,626	5/3/21	115	\$ 92,801	5/3/21	349	\$ 560,376	\$ (15,300)	1.52%				
3	FEB	4/15/21	257	3.2%	\$ 326,074	4/22/21	203	\$ 347,044	4/27/21	164	\$ 334,955	5/6/21	151	\$ 330,212	5/10/21	148	\$ 329,080	5/10/21	390	\$ 591,629	\$ 22,030	1.70%				
4	FEB	4/22/21	65	3.2%	\$ 105,159	4/29/21	55	\$ 108,952	5/4/21	41	\$ 97,433	5/13/21	39	\$ 97,037	5/17/21	37	\$ 96,606	5/17/21	396	\$ 592,825	\$ 25,029	1.72%	\$ 4,615,600	12.8%	\$ 70,575,203	0.8%
1	MAR	4/29/21	215	3.2%	\$ 109,331	5/6/21	160	\$ 120,728	5/11/21	125	\$ 103,930	5/20/21	99	\$ 87,013	5/24/21	92	\$ 83,741	5/24/21	392	\$ 602,229	\$ 27,368	1.70%				
2	MAR	5/6/21	195	3.2%	\$ 120,906	5/13/21	154	\$ 97,484	5/18/21	135	\$ 90,841	5/27/21	120	\$ 78,532	5/31/21	106	\$ 72,985	5/31/21	383	\$ 582,413	\$ 22,037	1.67%				
3	MAR	5/13/21	286	3.3%	\$ 358,406	5/20/21	221	\$ 338,256	5/25/21	181	\$ 329,290	6/3/21	150	\$ 316,638	6/7/21	127	\$ 306,597	6/7/21	362	\$ 559,930	\$ (31,699)	1.57%				
4	MAR	5/20/21	70	3.3%	\$ 103,482	5/27/21	61	\$ 59,604	6/1/21	47	\$ 52,721	6/10/21	42	\$ 50,711	6/14/21	40	\$ 50,271	6/14/21	365	\$ 513,595	\$ (79,229)	1.59%	\$ 4,719,249	10.9%	\$ 75,294,452	0.7%
1	APR	6/3/21	211	3.3%	\$ 154,740	6/10/21	167	\$ 133,530	6/15/21	144	\$ 119,114	6/24/21	114	\$ 102,373	6/28/21	107	\$ 98,688	6/28/21	380	\$ 528,542	\$ (73,687)	1.65%				
2	APR	6/10/21	197	3.3%	\$ 116,882	6/17/21	146	\$ 119,974	6/22/21	119	\$ 104,847	7/1/21	84	\$ 81,442	7/5/21	78	\$ 75,875	7/5/21	352	\$ 531,432	\$ (50,981)	1.53%				
3	APR	6/17/21	246	3.1%	\$ 343,470	6/24/21	198	\$ 381,589	6/29/21	162	\$ 369,537	7/8/21	119	\$ 349,231	7/12/21	116	\$ 347,436	7/12/21	341	\$ 572,270	\$ 12,340	1.48%				
4	APR	6/24/21	67	3.1%	\$ 45,472	7/1/21	46	\$ 44,577	7/6/21	31	\$ 42,161	7/15/21	24	\$ 39,693	7/19/21	22	\$ 35,898	7/19/21	323	\$ 557,898	\$ 44,302	1.40%	\$ 5,451,248	10.2%	\$ 80,745,700	0.7%
1	MAY	7/1/21	229	3.2%	\$ 124,845	7/8/21	182	\$ 141,814	7/13/21	156	\$ 127,125	7/22/21	114	\$ 102,133	7/26/21	111	\$ 100,366	7/26/21	327	\$ 559,575	\$ 31,034	1.42%				
2	MAY	7/8/21	209	3.3%	\$ 119,053	7/15/21	169	\$ 132,654	7/20/21	132	\$ 112,690	7/29/21	103	\$ 97,264	8/2/21	99	\$ 92,781	8/2/21	348	\$ 576,481	\$ 45,049	1.51%				
3	MAY	7/15/21	246	3.3%	\$ 378,485	7/22/21	193	\$ 438,141	7/27/21	164	\$ 424,394	8/5/21	124	\$ 395,379	8/9/21	103	\$ 380,420	8/9/21	335	\$ 609,465	\$ 37,194	1.46%				
4	MAY	7/22/21	49	3.2%	\$ 39,959	7/29/21	47	\$ 91,403	8/3/21	32	\$ 37,163	8/12/21	27	\$ 36,380	8/16/21	26	\$ 35,322	8/16/21	339	\$ 608,889	\$ 50,991	1.47%	\$ 5,527,605	11.0%	\$ 86,273,304	0.7%
1	JUN	7/29/21	237	3.2%	\$ 137,621	8/5/21	207	\$ 133,903	8/10/21	160	\$ 111,990	8/19/21	118	\$ 87,175	8/23/21	112	\$ 85,035	8/23/21	340	\$ 593,558	\$ 33,983	1.48%				
2	JUN	8/5/21	240	3.4%	\$ 140,995	8/12/21	193	\$ 131,834	8/17/21	155	\$ 116,281	8/26/21	122	\$ 103,633	8/30/21	106	\$ 95,229	8/30/21	347	\$ 596,006	\$ 19,525	1.51%				
3	JUN	8/12/21	245	3.4%	\$ 410,876	8/19/21	201	\$ 404,918	8/24/21	161	\$ 393,334	9/2/21	140	\$ 380,145	9/7/21	133	\$ 357,822	9/7/21	377	\$ 573,408	\$ (36,057)	1.64%				
4	JUN	8/19/21	63	3.4%	\$ 41,855	8/26/21	48	\$ 46,252	8/31/21	38	\$ 44,118	9/9/21	32	\$ 42,891	9/13/21	30	\$ 41,768	9/13/21	381	\$ 579,853	\$ (29,036)	1.66%	\$ 5,685,899	10.2%	\$ 91,959,203	0.6%
1	JUL	9/2/21	2><																							

**CYCLE DELINQUENCY STEPS
REPORT DATE: JANUARY 2022**

ATTACHMENT 1

CYCLE #	BILL MONTH	1ST EMAIL SENT				IVR CALL			STAFF CALL			SHUTOFF DATE			WEEK AFTER SHUTOFF DATE			RUNNING TOTAL DELINQUENT					% OF TOTAL BILLED			
		DATE	# CUST		PD TOTAL	DATE	# CUST	TOTAL DUE	DATE	# CUST	TOTAL DUE	DATE	# CUST	TOTAL DUE	DATE	# CUST	TOTAL DUE	AS OF DATE	# CUST	DELINQUENT AMOUNT	INC (DEC) PRIOR MONTH	% OF CUSTOMERS	MONTHLY BILLING	% DELINQUENT MONTHLY BILL	CUMULATIVE BILLING	% DELINQUENT CUM BILLED
1	AUG	9/30/21	275	3.8%	\$ 186,329	10/7/21	218	\$ 214,555	10/12/21	187	\$ 196,071	10/21/21	151	\$ 172,544	10/25/21	133	\$ 159,212	10/25/21	408	\$ 738,020	\$ 123,831	1.77%				
2	AUG	10/7/21	243	3.9%	\$ 182,910	10/14/21	193	\$ 139,414	10/19/21	161	\$ 127,545	10/28/21	134	\$ 114,490	11/1/21	130	\$ 110,656	11/1/21	442	\$ 740,532	\$ 113,428	1.92%				
3	AUG	10/14/21	320	3.9%	\$ 492,132	10/21/21	253	\$ 515,007	10/26/21	212	\$ 492,692	11/4/21	164	\$ 465,923	11/8/21	153	\$ 460,545	11/8/21	460	\$ 787,697	\$ 105,034	2.00%				
4	AUG	10/21/21	72	4.0%	\$ 64,913	10/28/21	65	\$ 77,014	11/2/21	54	\$ 57,961	11/15/21	43	\$ 52,674	11/22/21	40	\$ 51,540	11/22/21	456	\$ 781,953	\$ 83,775	1.98%	\$ 6,198,235	12.6%	\$ 105,095,422	0.7%
1	SEP	11/4/21	315	4.1%	\$ 279,562	11/12/21	237	\$ 225,752	11/16/21	199	\$ 205,429	11/29/21	148	\$ 173,380	12/6/21	136	\$ 164,060	12/6/21	459	\$ 786,801	\$ 48,781	2.00%				
2	SEP	11/10/21	276	4.3%	\$ 189,043	11/18/21	212	\$ 198,639	11/23/21	174	\$ 172,176	12/2/21	147	\$ 155,386	12/6/21	139	\$ 151,652	12/6/21	468	\$ 827,797	\$ 87,265	2.03%				
3	SEP	11/18/21	330	4.3%	\$ 613,820	11/24/21	261	\$ 555,153	11/30/21	218	\$ 524,601	12/9/21	173	\$ 494,806	12/13/21	168	\$ 492,933	12/13/21	483	\$ 860,185	\$ 72,488	2.10%				
4	SEP	11/24/21	77	4.3%	\$ 96,922	12/2/21	61	\$ 86,777	12/7/21	49	\$ 62,497	12/16/21	46	\$ 61,618	12/20/21	46	\$ 61,617	12/20/21	489	\$ 870,262	\$ 88,309	2.13%	\$ 6,703,165	13.0%	\$ 111,798,587	0.8%
1	OCT	12/2/21	305	4.3%	\$ 238,146	12/9/21	239	\$ 252,304	12/14/21	192	\$ 221,715	12/27/21	151	\$ 194,076	1/3/22	145	\$ 190,745	1/3/22	498	\$ 896,948	\$ 110,146	2.17%				
2	OCT	12/9/21	299	4.4%	\$ 277,214	12/16/21	246	\$ 227,790	12/21/21	205	\$ 205,246	1/3/22	166	\$ 182,245	1/10/22	148	\$ 172,401	1/10/22	507	\$ 917,696	\$ 89,899	2.20%				
3	OCT	12/16/21	319	4.3%	\$ 615,905	12/23/21	258	\$ 576,608	12/28/21	218	\$ 558,747	1/6/22	197	\$ 548,554	1/17/22	155	\$ 519,363	1/17/22	494	\$ 944,126	\$ 83,941	2.15%				
4	OCT	12/23/21	77	4.3%	\$ 71,563	12/30/21	62	\$ 69,346	1/4/22	58	\$ 68,674	1/13/22	52	\$ 66,074	1/24/22	46	\$ 64,344	1/24/22	494	\$ 946,854	\$ 76,591	2.15%	\$ 6,124,422	15.5%	\$ 117,923,010	0.8%