

AGENDA
IRVINE RANCH WATER DISTRICT
SUPPLY RELIABILITY PROGRAMS COMMITTEE
THURSDAY, OCTOBER 16, 2025

This meeting will be held in-person at the District’s headquarters located at 15600 Sand Canyon Avenue, Irvine, California. The meeting will be held on the second floor in the Committee room, please check in with the receptionist for access. The meeting will also be broadcasted via Webex for those wanting to observe the meeting virtually.

To observe this meeting virtually, please join online using the link and information below:

Via Web: <https://irwd.webex.com/irwd/j.php?MTID=mfc06209bfc9e628091562954fadab033>

Meeting Number (Access Code): 2484 615 8929

Meeting Password: z9MJAiREc78

As courtesy to the other participants, please mute your device when you are not speaking.

PLEASE NOTE: Participants joining the meeting will be placed into the Webex lobby when (if) the Committee enters Closed Session. Participants who remain in the “lobby” will automatically be returned to the open session of the Committee once the closed session has concluded. Participants who join the meeting while the Committee is in closed session will receive a notice that the meeting has been locked. They will be able to join the meeting once the Closed Session has concluded.

CALL TO ORDER 1:30 p.m.

ATTENDANCE Committee Chair: Doug Reinhart _____
 Committee Member: Peer Swan _____

<u>ALSO PRESENT</u>	Paul Cook	_____	Paul Weghorst	_____
	Neveen Adly	_____	Fiona Nye	_____
	Natalie Palacio	_____	Robert Huang	_____
	Melody Seesangrit	_____		_____
	_____	_____	_____	_____
	_____	_____	_____	_____

PUBLIC COMMENT NOTICE

If you wish to address the Committee on any item, please submit a request to speak via the “chat” feature available when joining the meeting virtually. Remarks are limited to three minutes per speaker on each subject. Public comments are limited to three minutes per speaker on each subject. You may also submit a public comment in advance of the meeting by emailing comments@irwd.com before 8:00 a.m. on Thursday, October 16, 2025.

COMMUNICATIONS

1. Notes: Weghorst
2. Public Comments
3. Determine the need to discuss and/or take action on item(s) introduced that came to the attention of the District subsequent to the agenda being posted.
4. Determine which items may be approved without discussion.

INFORMATION

5. WATER BANKING PROJECT FACILITIES, CAPACITIES, OPERATIONS, AND PROGRAMS – PALACIO / NYE / WEGHORST

Recommendation: Receive and file.

6. DRAFT TERMS FOR AN EXCHANGE PROGRAM BETWEEN IRWD AND ZONE 7 WATER AGENCY – NYE / WEGHORST

Recommendation: That the Board authorize the General Manager to execute an Exchange Program Agreement with Zone 7 Water Agency based on the draft terms presented, subject to non-substantive changes.

OTHER BUSINESS


7. Receive Oral Updates from District's liaison to Dudley Ridge Water District and provide information on relevant activities.
8. Directors' Comments
9. Adjourn

Availability of agenda materials: Agenda exhibits and other writings that are disclosable public records distributed to all or a majority of the members of the above-named Committee in connection with a matter subject to discussion or consideration at an open meeting of the Committee are available for public inspection in the District's office, 15600 Sand Canyon Avenue, Irvine, California ("District Office"). If such writings are distributed to members of the Committee less than 72 hours prior to the meeting, they will be available from the District Secretary of the District Office at the same time as they are distributed to Committee Members, except that if such writings are distributed one hour prior to, or during, the meeting, they will be available electronically via the Webex meeting noted. Upon request, the District will provide for written agenda materials in appropriate alternative formats, and reasonable disability-related modification or accommodation to enable individuals with disabilities to participate in and provide comments at public meetings. Please submit a request, including your name, phone number and/or email address, and a description of the modification, accommodation, or alternative format requested at least two days before the meeting. Requests should be emailed to comments@irwd.com. Requests made by mail must be received at least two days before the meeting. Requests will be granted whenever possible and resolved in favor of accessibility.

October 16, 2025

Prepared by: N. Palacio

Submitted by: F. Nye / P. Weghorst

Approved by: Paul A. Cook 

SUPPLY RELIABILITY PROGRAMS COMMITTEE

WATER BANKING PROJECT FACILITIES, CAPACITIES, OPERATIONS, AND PROGRAMS

SUMMARY:

Staff has prepared information related to IRWD's water banking facilities, capacities, operations, and exchange programs. The information is regularly updated to reflect changes in the status of IRWD's projects, programs, and operations. At the Committee meeting, staff will review this information and provide an overview of IRWD's actual and forecasted monthly recharge operations for 2025. Staff will also provide an update on water supply conditions in California.

BACKGROUND:

Staff has prepared reference materials in tabular, map, and schematic formats to describe IRWD's water banking facilities, capacities, operations, storage, and exchange programs. These reference materials are updated regularly to reflect changes in the status of the projects, programs, and operations. The following is an overview of the reference materials as well as actual and forecasted recharge operations for calendar year 2025 at the IRWD Water Bank.

Capacity and Operations Tables:

A table presenting storage, recharge, and recovery capacities of existing IRWD water banking projects, including capacities available to IRWD in the Kern Water Bank, is provided as Exhibit "A". Exhibits "B" and "C" provide an update on water banking recovery and recharge operations as well as the balance of the water stored in the Kern Water Bank. Exhibit "B" provides before-loss estimates of water recharged and stored at the water banking projects. Exhibit "C" shows after-loss estimates of water recharged and stored at the projects. Changes to Exhibits "B" and "C" this month reflect IRWD's obligation to return 5,455 AF of Kern River water to Dudley Ridge Water District under the one-for-one exchange program.

Summary of Programs:

A table summarizing IRWD's water purchase and exchange programs is presented as Exhibit "D". This table lists each water purchase and exchange program IRWD has entered into and presents information related to the type of exchange, year executed, agreement type, and water type. IRWD and partner shares are listed, and the table shows the accumulated total amount of water secured by each program. The balances listed for IRWD and its partners show the amount of water remaining in storage with IRWD's balances specifying whether the water is stored in Metropolitan Water District's system, Kern County, or owed to IRWD by Dudley Ridge. Changes to Exhibit "D" this month correlate with changes made to Exhibits "B" and "C".

Exhibit “E” graphically depicts how storage of State Water Project (SWP) and non-SWP water has changed annually in the Strand and Stockdale Integrated Banking Projects. Exhibit “E” also depicts the balance of water owed to IRWD by Dudley Ridge shown as credits, which are now zero acre-feet. The tables provided as Exhibit “F” shows how capacities in the water banking projects have been dedicated to IRWD’s existing and proposed exchange programs.

Project Maps:

To support the tables and figures provided as Exhibits “A”, “B”, “C”, “D”, “E”, and “F”, staff has prepared maps depicting project wells, pipelines, recharge basins, and Cross Valley Canal turnout locations, along with the most current recharge rates. These maps are provided as Exhibits “G”, “H”, and “I”, respectively. Exhibit “I” includes the most recent sustained recharge rates at the IRWD Water Bank. The facilities shown on the maps are associated with the Strand Ranch, Stockdale West, Stockdale East, and Drought Relief Projects.

Program Agreement Diagrams:

Schematic diagrams have been prepared that depict IRWD water banking and exchange programs with Rosedale-Rio Bravo Water Storage District, Buena Vista Water Storage District, Dudley Ridge, Metropolitan, Antelope Valley-East Kern Water Agency, and Santa Clara Valley Water District (Valley Water). These diagrams are provided as Exhibits “J”, “K”, “L”, “M”, “N”, “O”, “P”, and “Q” as described in the List of Exhibits.

Cost of Water Tables:

A summary of the costs of water from each of IRWD’s unbalanced exchange partnerships through the year 2023 is provided as Exhibit “R”. Exhibit “R” provides a summary of the cost to recover exportable water from the IRWD Water Bank and deliver it to IRWD’s service area. The table lists each of IRWD’s unbalanced exchange partnerships and presents information related to the period over which water was acquired, water type, IRWD’s share of water, various cost components, and the total cost of water delivered to IRWD’s service area. Cost components include a *Cost of Water* made up of fixed and variable operating costs plus a capital cost of water, estimated future IRWD recovery costs, and the 2025 Metropolitan Full Service Untreated Tier-1 Rate. The costs of water are presented on a dollar per acre-foot basis. Exhibit “R” will be updated periodically once all invoices have been received from Rosedale.

IRWD’s Coordinated Agreement with Metropolitan:

An overview of IRWD’s Coordinated Operating, Water Storage, Exchange, and Delivery Agreement with Metropolitan and Municipal Water District of Orange County (Coordinated Agreement) is provided as Exhibit “S”. The benefits to IRWD are foundational to the success of IRWD’s water banking project and programs.

Forecasted 2025 Water Recharge Activities:

Actual and forecasted 2025 deliveries to IRWD's Water Bank are depicted in Exhibit "T". To date, 11,566 AF of water has been recharged at the Water Bank in 2025. The delivery of the 79 AF of Dudley Ridge Table A water taken by Metropolitan in 2021 and 2022 will now occur sometime in 2026. Homer, LLC is expected to recharge 1,854 AF in November. At the Committee meeting, staff will provide an update on the status of the 2-for-1 Exchange Program with Valley Water. Staff will continue to update the forecasted and delivery amounts shown in Exhibit "T" as the year progresses.

Water Supply Conditions:

At the meeting, staff will update the Committee on California water supply conditions and how conditions might affect recharge operations at IRWD's Water Bank.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

RECOMMENDATION:

Receive and file.

LIST OF EXHIBITS:

- Exhibit "A" – Recharge, Storage, and Recovery Capacities of Current and Anticipated Water Banking Projects
- Exhibit "B" – Water Banking Storage, Recharge, and Recovery Operations before Losses
- Exhibit "C" – Water Banking Storage, Recharge, and Recovery Operations after Losses
- Exhibit "D" – Status of IRWD Purchase and Exchange Programs
- Exhibit "E" – Historic Water Storage in Strand and Stockdale Projects
- Exhibit "F" – Dedicated Capacities of Current Water Banking Projects
- Exhibit "G" – Map of Water Banking Project Wells and Pipelines
- Exhibit "H" – Map of Water Banking Recharge Basins and Turnout Facilities
- Exhibit "I" – Map of Water Banking Recharge Rates
- Exhibit "J" – Diagram of IRWD-Rosedale Water Banking and Exchange Program Agreements
- Exhibit "K" – Diagram of Long-term Water Exchange Program with Buena Vista Water Storage District and Diagram of One-year Program to Augment Recharge Using Stockdale West Recharge Facilities with Buena Vista Water Storage District
- Exhibit "L" – Diagram of Unbalanced Exchange Program Diagram with Dudley Ridge
- Exhibit "M" – Diagram of Coordinated Operating, Water Storage, Exchange, and Delivery Agreement with Metropolitan

- Exhibit “N” – Diagram of Template Wheeling Agreement with Metropolitan
- Exhibit “O” – Diagram of Dudley Ridge One-for-One Exchange
- Exhibit “P” – Diagram of Long-term Water Exchange Program with Antelope Valley-East Kern
- Exhibit “Q” – Diagram of Long-term Water Exchange Program with Valley Water
- Exhibit “R” – Water Banking Estimated Cost of Water Exportable to IRWD Service Area
- Exhibit “S” – Summary of IRWD’s Coordinated Operating, Water Storage, Exchange and
Delivery Agreement with Metropolitan and MWDOC (updated 8 Feb 2024)
- Exhibit “T” – Actual and Forecasted 2025 Recharge Operations

Exhibit "A"

TABLE 1
Current and Anticipated Water Banking Projects
Recharge, Storage and Recovery Capacities
October 16, 2025

WATER BANKING PROJECT	OWNERSHIP AND WELL INFO		ALLOCATED CAPACITY (AF)					1 st PRIORITY RECOVERY CONDITIONS (CFS)		2 nd PRIORITY RECOVERY CONDITIONS (CFS)	
	IRWD OWNED	WELLS EXISTING	TOTAL STORAGE CAPACITY	ANNUAL RECHARGE 1 ST PRIORITY	ANNUAL RECHARGE 2 ND PRIORITY	ANNUAL RECOVERY 1 ST PRIORITY	ANNUAL RECOVERY 2 ND PRIORITY	RECOVERY CAPACITY AS PLANNED ¹	RECOVERY CAPACITY (Average Daily Production 1/1/2021 - 7/31/2022)	RECOVERY CAPACITY AS PLANNED	RECOVERY CAPACITY CURRENT CONDITIONS
Strand Ranch	Yes	7	50,000	17,500	-	17,500	-	40.0	20.5	-	-
Stockdale West	Yes	3	26,000	27,100	-	11,250	-	15.0	11.6	-	-
Stockdale East	No	2	-	-	19,000	-	7,500	-	-	10.0	9.0
IRWD Acquired Storage Account ²	No	-	50,000	-	-	-	-	-	-	-	-
Drought Relief Project Wells ²	No	3	-	-	-	-	-	15.0	16.5	-	-
Kern Water Bank Storage Account ⁴	No	-	9,495	3,200	-	1,520	<5,000	-	-	-	-
TOTALS		15	135,495	47,800	19,000	30,270	12,500	70.0	48.6	10.0	9.0
Partner Capacities ³			38,000	22,300	9,500	10,850	0	35.5	25.0	-	-
IRWD Capacities (does not include Kern Water Bank capacities)			88,000	22,300	9,500	17,900	7,500	34.5	25.0	-	-
IRWD's recovery <i>during</i> 6 month partner recovery period (AF)								12,420	9,000	-	-
IRWD's recovery <i>after</i> 6 month partner recovery period (AF)								5,480	6,733	-	-
TOTALS (AF)								17,900	15,733	-	-
Number of months needed to recover IRWD's total AF after partners' recovery (Assumes IRWD has use of total recovery capacity after partners' recovery)								8.6	10.2	-	-
Strand Ranch monthly recharge amount assuming 0.3 ft/day average recharge rate (AF)										4,518	
Stockdale West monthly recharge amount assuming 0.3 ft/day average recharge rate (AF)										2,331	

¹ Based on designed Strand recovery capacity assuming 370' bgs. Assumes 5 cfs for each of the Stockdale West and Drought Relief wells in order to meet IRWD's Water Banking, Transfers, and Wheeling policy position. Assumes partners' water is recovered over 6 months.

²IRWD has use of Acquired Storage and Drought Relief Project wells until January 12, 2039, unless the term of the agreement is extended.

³One half of storage capacity at Stockdale West and Strand Ranch will be allocated for partners.

⁴ Kern Water Bank capacities based on 6.58% of Dudley Ridge Water District's 9.62% share of the Kern Water Bank. Annual recharge amount is based on an average of recharge rates for high and low groundwater level conditions. 5,000 AF of recovery capacity may be available for second priority use.

Note: This page is intentionally left blank.

Exhibit "B"

TABLE 2
IRWD's Water Banking Storage, Recharge and Recovery Operations - BEFORE LOSSES
October 16, 2025

TRANSACTIONS	WATER BANKING ENTITY							TOTAL BY WATER TYPE AND STORAGE LOCATION
	IRWD		BUENA VISTA (BVWSD)	CENTRAL COAST (CCWA)	ANTELOPE VALLEY- EAST KERN (AVEK)	SANTA CLARA VALLEY WATER DISTRICT	DUDLEY RIDGE WATER DISTRICT (DRWD) ³	
	SWP ¹	NON-SWP ²	NON-SWP	SWP	SWP	SWP	SWP	
BEGINNING WATER IN STORAGE 2024 (AF)								
Total Kern Water Bank ⁴	-	4,322	-	-	-	-	-	4,322
Total MWD System	12,033	-	-	-	-	-	43	12,076
Total Kern County	15,006	20,598	11,181	225	3,536	-	872	51,418
Total DRWD 1-for-1 Long Term Exchange Credit ⁵	7,525	-	-	-	-	-	-	7,525
TOTAL STORED WATER (1/1/2024)	34,564	24,920	11,181	225	3,536		915	75,341
(RECOVERY) AND RECHARGE IN 2024 (AF)								
KWB Recovery for use on Jackson Ranch ⁶	-	-	-	-	-	-	-	-
2024 SWP Allocation (40%)	346	-	-	-	-	-	346	692
DRWD 1-for-1 Long Term Exchange (Recharge)	2,195	-	-	-	-	-	-	2,195
TOTAL 2024 TRANSACTIONS ⁷	2,541	-	-	-	-		346	2,887
Total Kern Water Bank ⁴	-	4,322	-	-	-	-	-	4,322
Total MWD System	12,033	-	-	-	-	-	43	12,076
Total Kern County	17,547	20,598	11,181	225	3,536	-	1,218	54,305
Total DRWD 1-for-1 Long Term Exchange Credit ⁵	5,330	-	-	-	-	-	-	5,330
TOTAL STORED WATER (1/1/2025)	34,910	24,920	11,181	225	3,536		1,261	76,033
(RECOVERY) AND RECHARGE IN 2025 (AF)								
KWB Recovery for use on Jackson Ranch ⁶	-	-	-	-	-	-	-	-
2025 SWP Allocation (50%) Est.	439	-	-	-	-	-	438	877
DRWD 1-for-1 Long Term Exchange- Predelivery Est. ⁸	6,000	-	-	-	-	-	-	6,000
DRWD 1-for-1 Long Term Exchange (Recharge) Est.	4,689	-	-	-	-	-	-	4,689
Buena Vista Recovery	-	-	(10,112)	-	-	-	-	(10,112)
DRWD 1-for-1 Long Term Exchange Credit		(6,000)						
TOTAL ESTIMATED 2025 TRANSACTIONS ⁷	11,128	(6,000)	(10,112)	-	-	-	438	(4,546)
ESTIMATED WATER IN STORAGE 2025 (AF)								
Total Kern Water Bank ⁴	-	4,322		-	-	-	-	4,322
Total MWD System	12,033	-	-	-	-	-	43	12,076
Total Kern County	28,675	20,598	1,069	225	3,536	-	1,656	55,759
Total DRWD 1-for-1 Long Term Exchange Credit ⁹	-	(6,000)	-	-	-	-	-	(6,000)
TOTAL ESTIMATED STORED WATER TO DATE	40,708	18,920	1,069	225	3,536	-	1,699	66,157

NOTES: MWD = Metropolitan Water District of Southern California.

¹ IRWD's SWP includes 295 AF from CVWD that stays in Kern County.

² IRWD's Non-SWP total includes 2,403 AF, net of losses, of Kern County Water Agency Article 21 Water.

³ DRWD water supply will be returned by MWD or IRWD's Strand Ranch to IRWD's Jackson Ranch.

⁴ IRWD's KWB Account balance includes SWP, Friant and Kern River water. The KWB account balance is included in the Non-SWP column because it is not exportable to IRWD's service area.

⁵ Per the DRWD Long-Term 1-for-1 Exchange Program, Non-SWP water delivered to DRWD landowners will be returned to IRWD as SWP water at a later date. To account for the SWP water that will be returned at a later date, the amount of water owed will be shown as a credit. Total assumes all water is returned to IRWD Water Bank which adds in a 10% loss factor.

⁶ Water recovered from IRWD's Kern Water Bank account for use on Jackson Ranch.

⁷ Total banking losses for 2023 deliveries to the IRWD bank are estimated to be 3,506 AF. Total banking losses for 2024 deliveries to the IRWD Water Bank are estimated to be 414 AF.

⁸ DRWD pre-delivered 6,000 AF of SWP Table A on behalf of landowner Wonderful Orchards under the 1-for-1 long-term exchange program. This water will be exchanged with 6,000 AF of Kern River Water stored in the IRWD Water Bank for use by Wonderful at a later date.

⁹ The 4,689 AF delivered by DRWD in 2025 fulfills DRWD's remaining obligation associated with deliveries of Kern River Water to DRWD in 2021 and 2022. The difference between the 5,330 AF credit balance shown in 2024 and the 4,689 AF delivered in 2025 is due to losses in the CVC and California Aqueduct. To account for these conveyance losses, the credit balance shown in 2025 has been zeroed out.

Note: This page is intentionally left blank.

Exhibit "C"

TABLE 3
IRWD's Water Banking Storage, Recharge and Recovery Operations - AFTER LOSSES
October 16, 2025

TRANSACTIONS	WATER BANKING ENTITY							TOTAL BY WATER TYPE AND STORAGE LOCATION
	IRWD		BUENA VISTA (BVWSD)	CENTRAL COAST (CCWA)	ANTELOPE VALLEY-EAST KERN (AVEK)	SANTA CLARA VALLEY WATER DISTRICT	DUDLEY RIDGE WATER DISTRICT (DRWD) ³	
	SWP ¹	NON-SWP ²	NON-SWP	SWP	SWP	SWP	SWP	
BEGINNING WATER IN STORAGE 2024 (AF)								
Total Kern Water Bank ⁴	-	4,242	-	-	-	-	-	4,242
Total MWD System	12,033	-	-	-	-	-	43	12,076
Total Kern County	12,023	15,098	10,112	193	3,032	-	748	41,206
Total DRWD 1-for-1 Long Term Exchange Credit ⁵	7,306	-	-	-	-	-	-	7,306
TOTAL STORED WATER (1/1/2024)	31,362	19,340	10,112	193	3,032	-	791	64,830
(RECOVERY) AND RECHARGE IN 2024 (AF)								
KWB Recovery for use on Jackson Ranch ⁶	-	-	-	-	-	-	-	-
2024 SWP Allocation (40%)	297	-	-	-	-	-	297	594
DRWD 1-for-1 Long Term Exchange (Recharge)	1,882	-	-	-	-	-	-	1,882
TOTAL 2024 TRANSACTIONS	2,179	-	-	-	-	-	297	2,476
Total Kern Water Bank	-	4,242	-	-	-	-	-	4,242
Total MWD System	12,033	-	-	-	-	-	43	12,076
Total Kern County	14,202	15,098	10,112	193	3,032	-	1,045	43,682
Total DRWD 1-for-1 Long Term Exchange Credit	5,424	-	-	-	-	-	-	5,424
TOTAL STORED WATER (1/1/2025)	31,659	19,340	10,112	193	3,032	-	1,088	65,424
(RECOVERY) AND RECHARGE IN 2025 (AF)								
KWB Recovery for use on Jackson Ranch ⁶	-	-	-	-	-	-	-	-
2025 SWP Allocation (50%) Est. ⁷	417	-	-	-	-	-	416	833
DRWD 1-for-1 Long Term Exchange- Predelivery Est. ^{7,8}	5,700	-	-	-	-	-	-	5,700
DRWD 1-for-1 Long Term Exchange Est. ⁷	4,271	-	-	-	-	-	-	4,271
Buena Vista Recovery	-	-	(10,112)	-	-	-	-	(10,112)
DRWD 1-for-1 Long Term Exchange Credit		(5,455)						
TOTAL ESTIMATED 2025 TRANSACTIONS	10,388	(5,455)	(10,112)	-	-	-	416	(4,763)
ESTIMATED WATER IN STORAGE 2025 (AF)								
Total Kern Water Bank	-	4,242	-	-	-	-	-	4,242
Total MWD System	12,033	-	-	-	-	-	43	12,076
Total Kern County	24,590	15,098	-	193	3,032	-	1,461	44,374
Total DRWD 1-for-1 Long Term Exchange Credit ⁹	-	(5,455)	-	-	-	-	-	(5,455)
TOTAL ESTIMATED STORED WATER TO DATE	36,623	13,885	-	193	3,032	-	1,504	55,237

NOTES: Water in storage has been adjusted to account for losses. IRWD's water stored in Kern County is adjusted 15% for losses (5% for out of county loss, 6% surface loss, and 4% reserve loss); Water stored for-BVWSD in Kern County is adjusted 10% (6% for surface loss and 4% for reserve loss); no losses for water directly delivered to MWD system.

¹ IRWD's SWP includes 251 AF from CVWD that stays in Kern County.

² IRWD's Non-SWP total includes 2,403 AF of Kern County Water Agency Article 21 Water.

³ DRWD water will be returned by MWD or IRWD's Strand Ranch to IRWD's Jackson Ranch.

⁴ IRWD's KWB Account balance includes SWP, Friant and Kern River water. The KWB account balance is included in the Non-SWP column because it is not exportable to IRWD's service area.

⁵ Per the DRWD Long-Term 1-for-1 Exchange Program, Non-SWP water delivered to DRWD landowners will be returned to IRWD as SWP water at a later date. To account for the SWP water that will be returned at a later date, the amount of water owed will be shown as a credit. Total assumes all water is returned to IRWD Water Bank which adds in a 10% loss factor. Final amounts may be subject to additional CVC losses.

⁶Water recovered from IRWD's Kern Water Bank account for use on Jackson Ranch.

⁷ The water recharged in July through an in-lieu exchange of water being recovered for Buena Vista is not subject to surface (6%) and reserve (4%) losses.

⁸ DRWD pre-delivered 6,000 AF of SWP Table A on behalf of landowner Wonderful Orchards under the 1-for-1 long-term exchange program. This water will be exchanged with 6,000 AF of Kern River Water stored in the IRWD Water Bank for use by Wonderful at a later date.

⁹ The 4,271 AF delivered by DRWD in 2025 fulfills DRWD's remaining obligation associated with deliveries of Kern River Water to DRWD in 2021 and 2022. The difference between the 5,424 AF credit balance shown in 2024

Exhibit "D"

TABLE 4
Status of IRWD Purchase and Exchange Programs (AFTER LOSSES)
October 16, 2025

PARTNER	EXCHANGE RATIO	YEAR EXECUTED	AGREEMENT TYPE	WATER TYPE	PARTNER WATER		IRWD WATER										
					PARTNER SHARE (AF)	PARTNER BALANCE (AF)	IRWD SHARE (AF)	IRWD BALANCE			EXPORTABILITY				SELLABLE (Y/N)		
								IN MWD SYSTEM (AF)	STORED IN KERN (AF)		1-for-1 EXCH CREDITS	TOTAL (AF)	EXPORTABLE TO IRWD (AF)	NON-EXPORTABLE (AF)		FOR USE ON JACKSON RANCH (DRWD)	
								Strand and Stockdale	Kern Fan (W.Enos)								
Semitropic Water Storage District	NA	2008	Purchase	SWP Article 21	NA	NA	2,842		2,403				2,403		2,403		Yes
Carpinteria Valley Water District ⁴	2-for-1	2008	Short-Term	SWP Table A	277		250		250				250		250		Yes
Buena Vista Water Storage District ¹	2-for-1	2010	Pilot	Kern River	4,108		3,903										Yes
	2-for-1	2011	Long-Term	Kern River	29,336	0	27,869		10,772		(5,455)	5,317		5,317			
Antelope Valley East Kern Water Agency	2-for-1	2011	Pilot	SWP Table A	2,229		2,337	2,337					2,337	2,337			No
Carpinteria Valley Water District	2-for-1	2011	Pilot	SWP Table A	624		655	655					655	655			No
Dudley Ridge Water District (SWPAO #13012)	2-for-1	2013	SWPAO	SWP Table A	1,876		1,876	1,876					1,876	1,876			Yes
				SWP Article 21	1,553		1,554	1,554				1,554	1,554			Yes	
Metropolitan Water District ²	1-for-1	2014	Short-Term	SWP Table A	NA	NA	4,000	4,000					4,000	4,000			No
Dudley Ridge Water District (SWPAO #17030)	2-for-1	2018	SWPAO	SWP Table A	2,516	1,505	2,598	1,055	1,542				2,598	2,598		1,505	Yes
Central Coast Water Authority (SWPAO #17001)	2-for-1	2017	Short-Term	SWP Table A	258		258	258					258	258			No
Dudley Ridge Water District ³ (SWPAO #19001)	1-for-1	2017	Long-Term	SWP Table A	NA	NA	19,547		19,547				19,547	19,547			No
				Credit	NA	NA	0				0	0				No	
Central Coast Water Authority (SWPAO #19031)	2-for-1	2019	Short-Term	SWP Table A	298		323	298	25				323	323			No
Buena Vista Water Storage District ¹	2-for-1	2023	Short-Term	Kern River	2,025	0	1,923		1,183	741			1,923		1,923		Yes
Central Coast Water Authority (SWPAO #23012)	2-for-1	2023	Short-Term	SWP Table A	193	193	193			193			193	193			No
Antelope Valley East Kern Water Agency	2-for-1	2018	Long-Term	SWP Table A	3,032	3,032	3,032		2,461	571			3,032	3,032			No
Santa Clara Valley Water District	2-for-1	2024	Long-Term	SWP Table A													No
				Total:	48,324	4,729	73,159	12,033	38,182	1,504	(5,455)	46,265	36,372	9,893	1,505	NA	

¹ Water acquired through BVWSD will be exportable after it is exchanged for SWP Table A through 1-for-1 exchange with Dudley Ridge Water District.

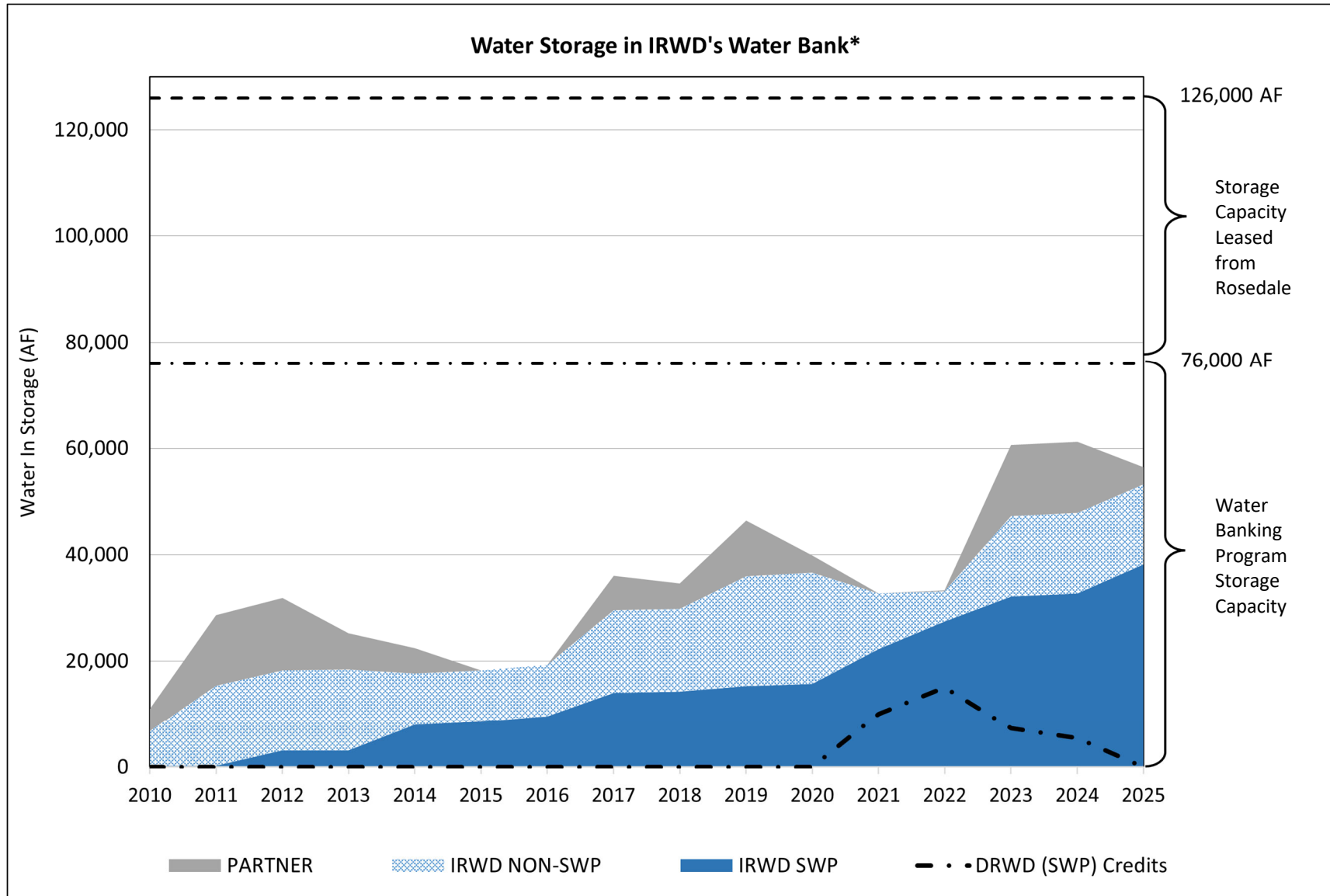
² Source of water was Buena Vista Water Storage District Kern River high flow water.

³ In July 2025, DRWD fulfilled its remaining obligation associated with deliveries of Kern River Water to DRWD in 2021 and 2022 therefore all remaining credits are shown as 0. DRWD also pre-delivered 5,700 AF, net of banking losses, of SWP Table A to the IRWD Water Bank. This water will be exchanged with Kern River Water stored in the IRWD Water Bank for use by DRWD at a later date.

⁴ Water acquired through Carpinteria is not exportable but can be exchanged for an exportable water supply.

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Exhibit "E"



*After losses

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TABLE 5
IRWD Dedicated Water Banking Capacities for Existing and Proposed Exchange Programs
October 16, 2025

STORAGE CAPACITY

Program	Dedicated Storage Capacity Strand Ranch (AF)	Dedicated Storage Capacity Stockdale West (AF)	Dedicated Storage Capacity Leased Storage Account (AF)	Kern Water Bank Storage Capacity (AF)
Total Capacity	50,000	26,000	50,000	9,495
BVWSD	40,000	-	-	-
IRWD/DRWD	10,000	6,000	-	-
AVEK	-	20,000	-	-
Valley Water	-	-	20,000	-
<i>Proposed Programs:</i>				
Homer LLC	-	-	8,000	-
Total Dedicated	50,000	26,000	28,000	-
Total Remaining	-	-	22,000	9,495

FIRST-PRIORITY RECHARGE CAPACITY

Program	Dedicated Recharge Capacity Strand Ranch (AF)	Dedicated Recharge Capacity Stockdale West (AF)	Dedicated Recharge Capacity Leased Storage Account (AF)	Kern Water Bank Recharge Capacity (AF)
Total Capacity	17,500	27,100	-	3,200
BVWSD	17,500	-	-	-
IRWD/DRWD	-	7,100	-	-
AVEK	-	20,000	-	-
Total Dedicated	17,500	27,100	-	-
Total Remaining	-	-	-	3,200

FIRST-PRIORITY RECOVERY CAPACITY

Program Partner	Dedicated Recovery Capacity Strand Ranch (AF)	Dedicated Recovery Capacity Stockdale West (AF)	Dedicated Recovery Capacity Leased Storage Account (AF)	Kern Water Bank Recovery Capacity (AF)
Total Capacity	17,500	11,250	-	1,520
BVWSD	6,667	-	-	-
DRWD	-	-	-	-
AVEK	-	3,333	-	-
IRWD	10,833	7,917	-	1,520
Total Dedicated	17,500	11,250	-	1,520
Total Remaining	-	-	-	-

TABLE 6

**Second-Priority Recharge and Recovery Capacity Available after Annual Scheduling of Dedicated First-Priority
Recharge and Recovery Allocated to Existing Programs**

October 16, 2025

SECOND-PRIORITY RECHARGE CAPACITY

Program	Dedicated Recharge Capacity Strand Ranch and Stockdale West (AF)	Minimum Program Share for Second- Priority ¹	Available Minimum Recharge Capacity if not used by Existing Programs (AF)	Total Program Recharge Capacity (AF)
Total Capacity	44,600		44,600	
First Priority Programs	44,600		-	44,600
Valley Water	-	40%	17,840	20,000
<i>Proposed Programs:</i>				
Homer LLC	-	16%	7,136	8,000
Total Dedicated	44,600	56%	24,976	
Total Remaining	-		19,624	

SECOND-PRIORITY RECOVERY CAPACITY

Program Partner	Dedicated Recovery Capacity Strand Ranch and Stockdale West (AF)	Minimum Program Share for Second Priority ¹	Minimum Available Recovery Capacity if not used by Existing Programs (AF)	Total Program Recovery Capacity (AF)
Total Capacity	28,750		28,750	
First Priority Programs	28,750		-	2,750
Valley Water	-	40%	3,333	3,333
<i>Proposed Programs:</i>				
Homer LLC	-	16%	1,333	1,333
Total Dedicated	28,750	56%	4,666	
Total Remaining	-		24,084	

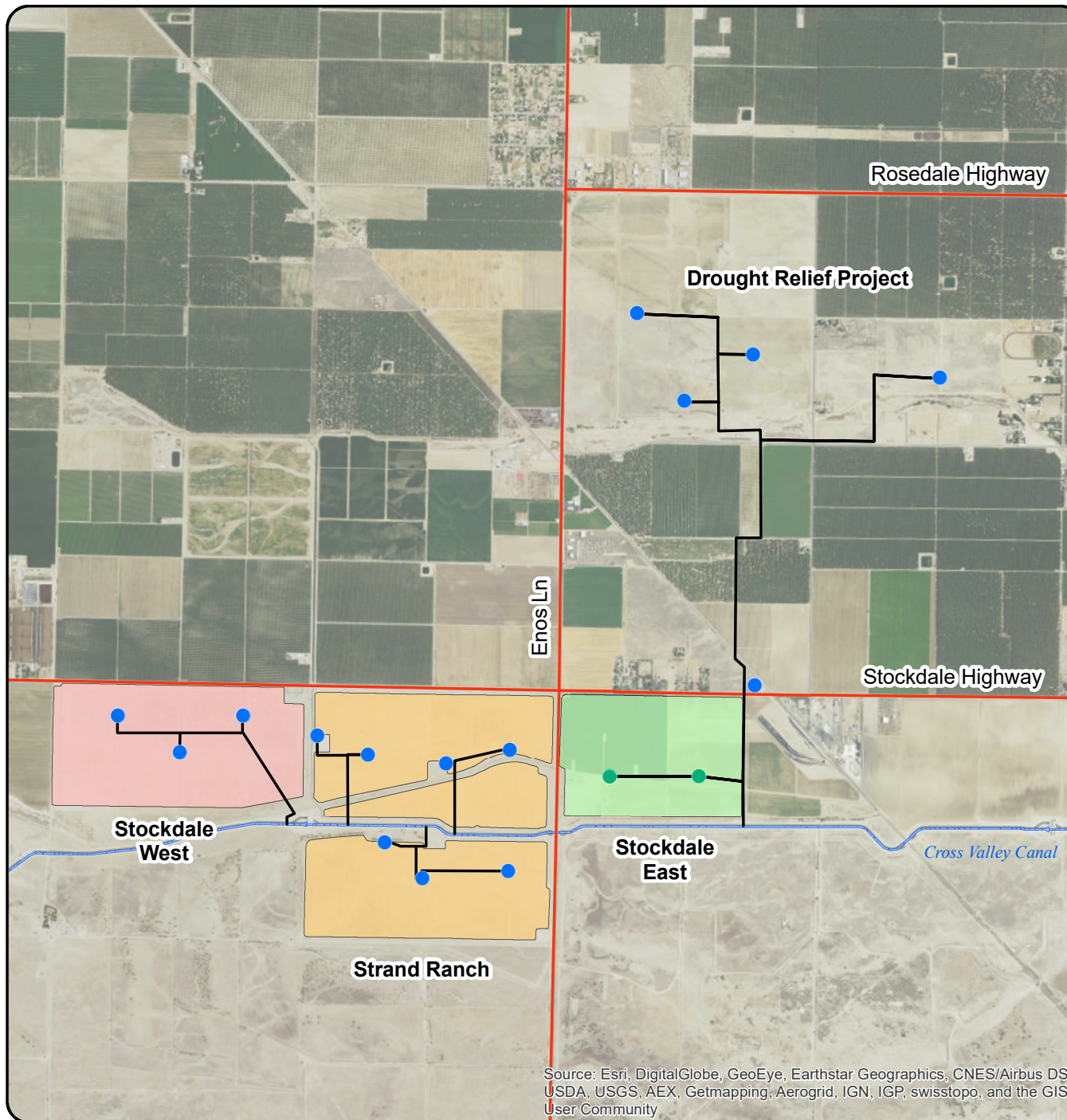
¹ Second-priority recharge and recovery capacity allocated to programs on a pro-rata share based on share of leased storage capacity.

For example:

Valley Water Share: 20,000 AF of 50,000 AF leased storage (40%)

Homer LLC Share: 8,000 AF of 50,000 AF leased storage (16%)

Exhibit "G"

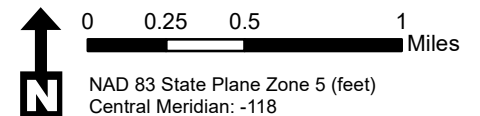


**Location Map:
IRWD Water Banking Projects
Wells and Turnin Pipelines**

MAP FEATURES

- Extraction Well
- Extraction Well
- Well Discharge Pipelines
- Stockdale East
- Stockdale West
- Strand Ranch

This figure shows the location of IRWD's water banking project sites and extraction wells.



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Exhibit "H"

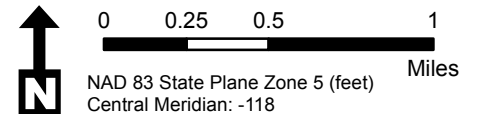
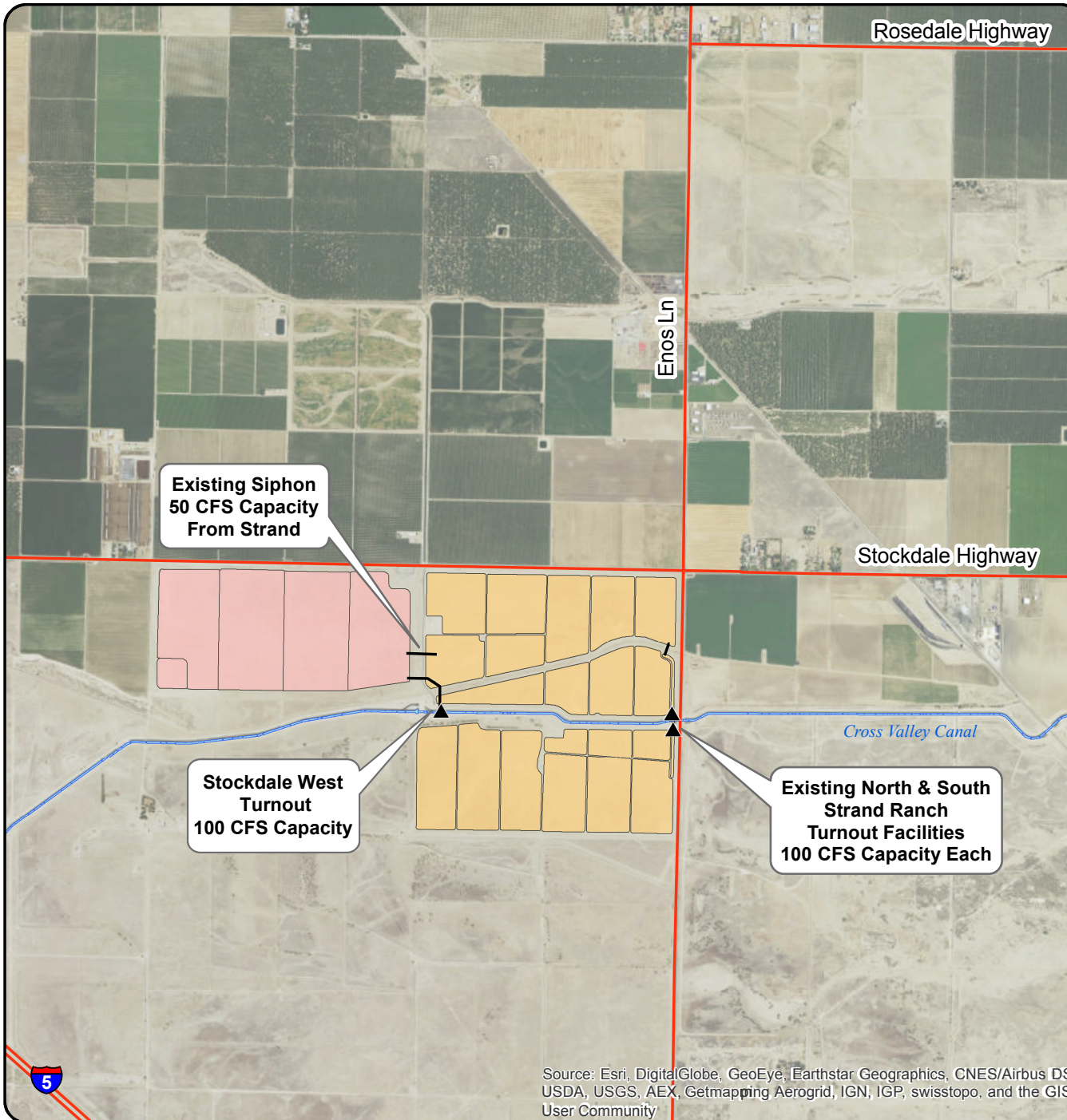


**Location Map:
IRWD Water Banking Projects
Recharge Basins & Turnout
Facilities**

MAP FEATURES

- ▲ Turnouts
- Stockdale West
- Strand Ranch

This figure shows the location of recharge basins, pipelines and turnout facilities.



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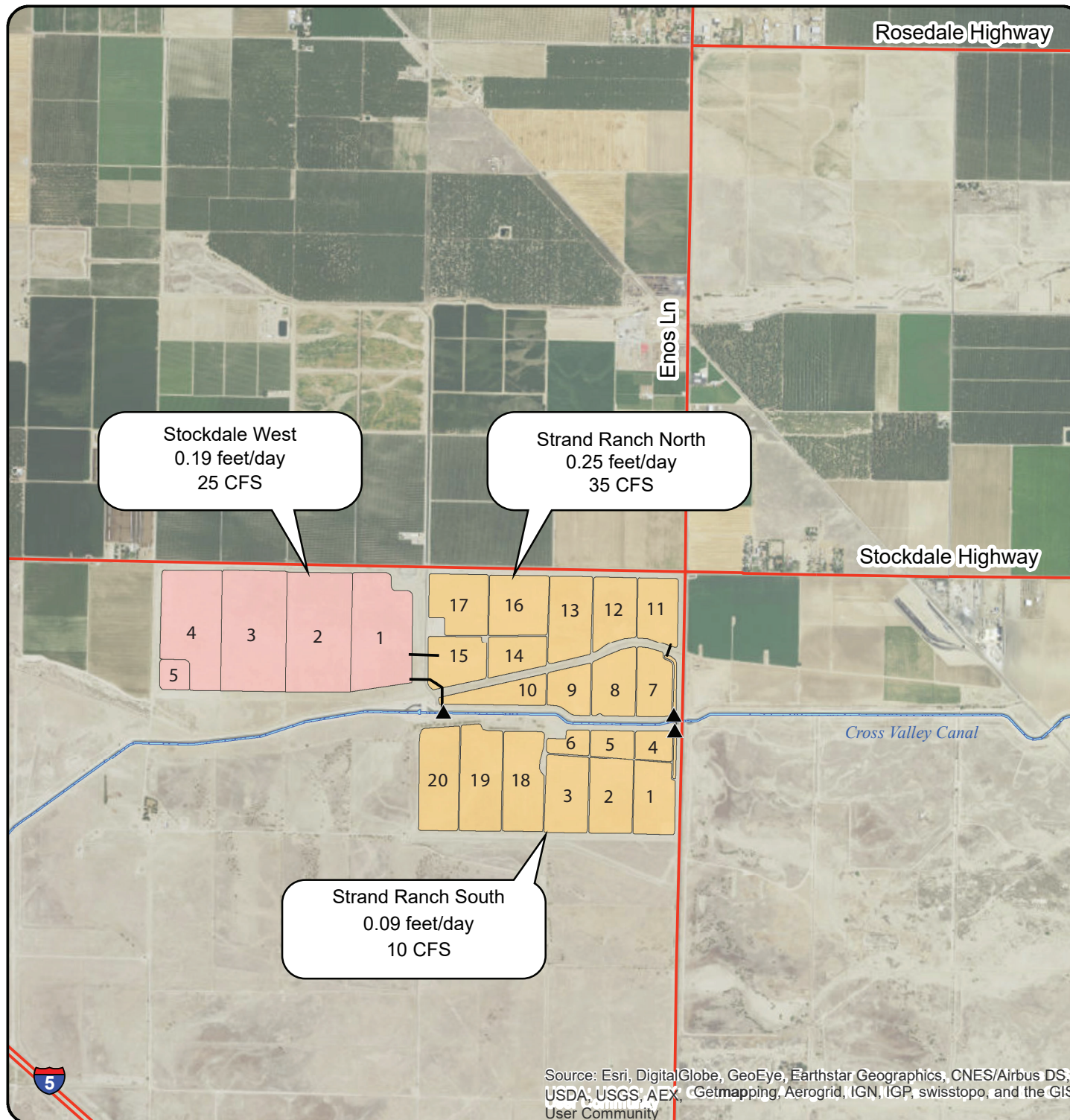


**Location Map:
IRWD Water Banking Projects
Recharge Rates**

MAP FEATURES

- ▲ Turnouts
- Stockdale West
- Strand Ranch

This figure shows the location of recharge basins and their associated recharge rates as of January 4, 2024



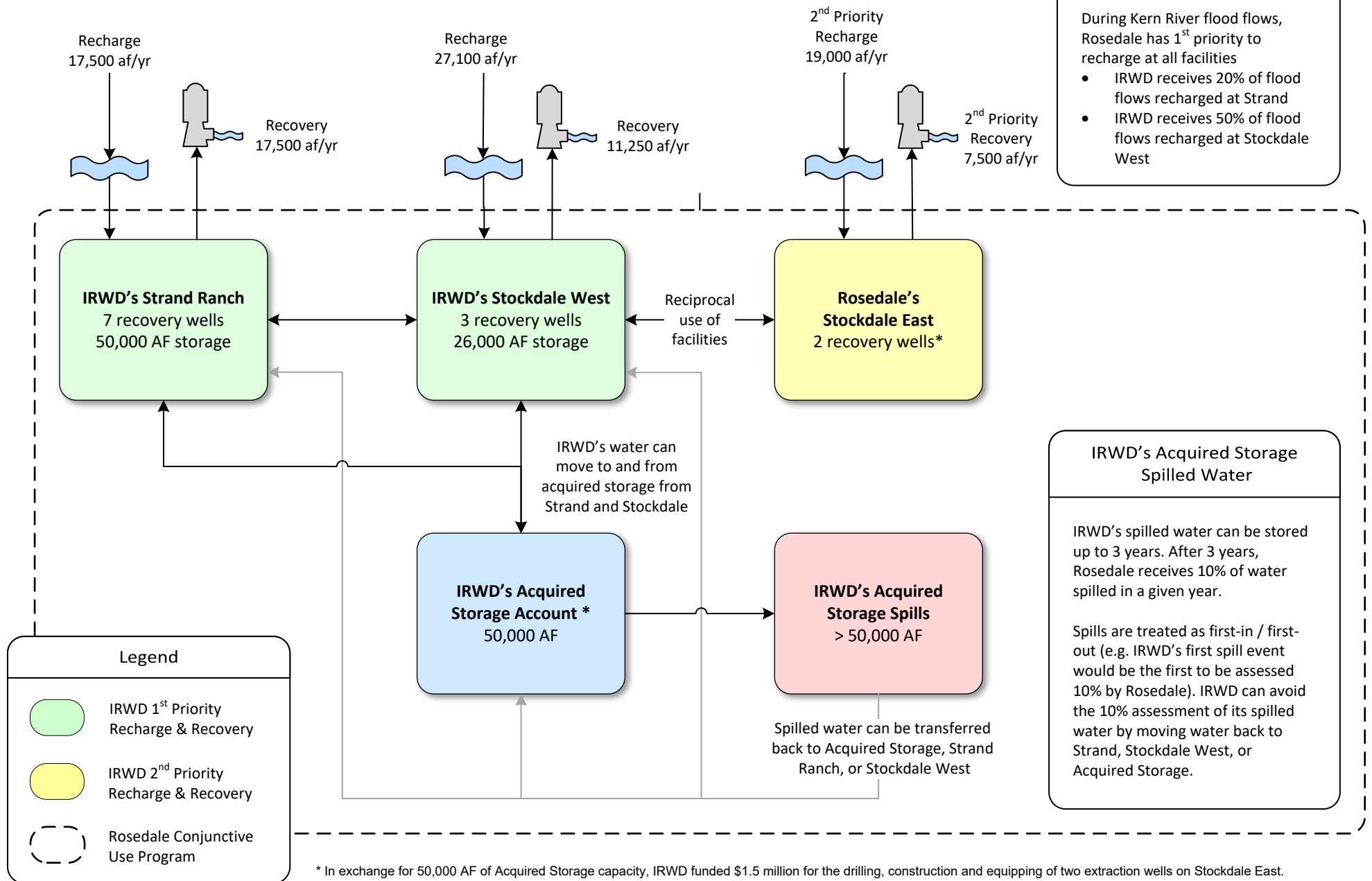
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Exhibit "J"

IRWD-Rosedale Water Banking and Exchange Program Agreements

Effective 1/12/2009 through 1/12/2039 (Strand Ranch)

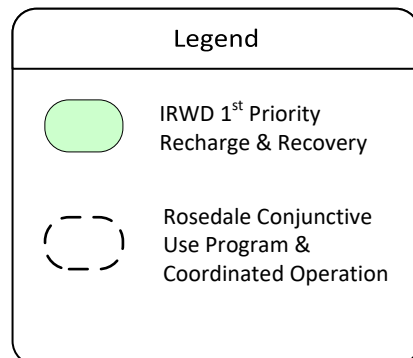
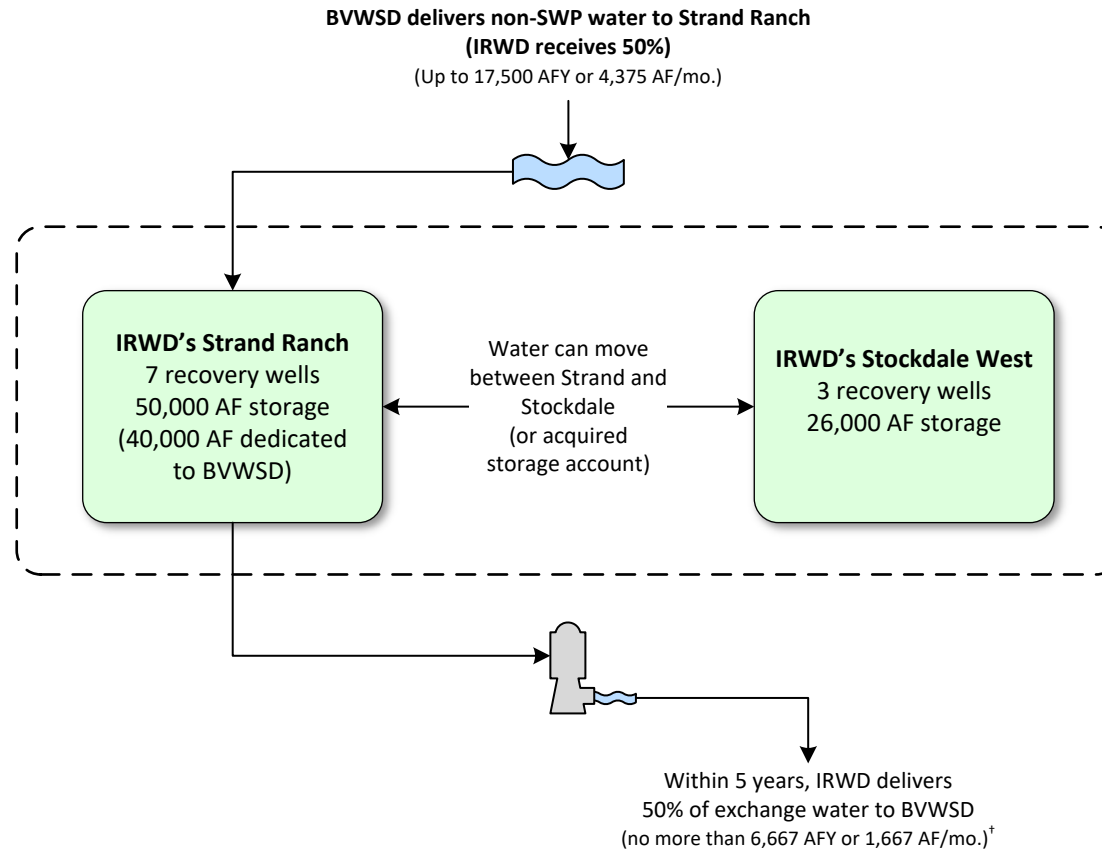
2/4/2016 through 1/12/2039 (Stockdale West)



* In exchange for 50,000 AF of Acquired Storage capacity, IRWD funded \$1.5 million for the drilling, construction and equipping of two extraction wells on Stockdale East.

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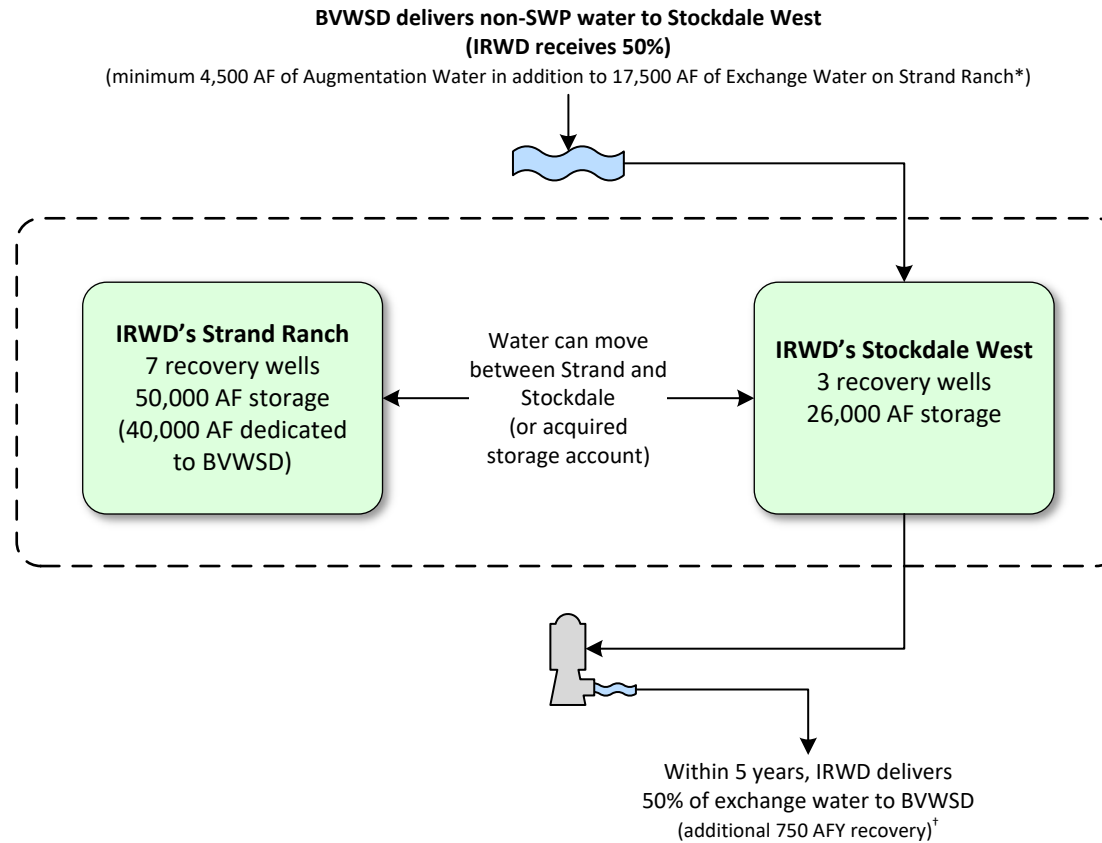
Buena Vista Water Storage District Long Term Water Exchange Program Effective 1/1/2011 through 1/12/2039





[†]IRWD shall remit one-half of the exchanged supply less one-half of reasonable losses back to BV no later than December 31st of the 4th year following the associated recharge event. IRWD pays for recovery of water returned to BV. Water to be remitted back to BV may remain in storage at Strand Ranch beyond the 4th year, in exchange for a greater percent being transferred to IRWD as compensation per the table shown to the right:

Year Following Recharge Event	Percent Transferred to IRWD	Percent Returned to BV During or Before Indicated Year
1	50%	50%
2	50%	50%
3	50%	50%
4	50%	50%
5	60%	40%
6	70%	30%
7	80%	20%
8	90%	10%
9	100%	0%

Buena Vista Water Storage District One-Year Program to Augment Recharge Using Stockdale West Recharge Facilities Effective 6/28/2023 through 12/31/2023



Legend	
	IRWD 1 st Priority Recharge & Recovery
	Rosedale Conjunctive Use Program & Coordinated Operation

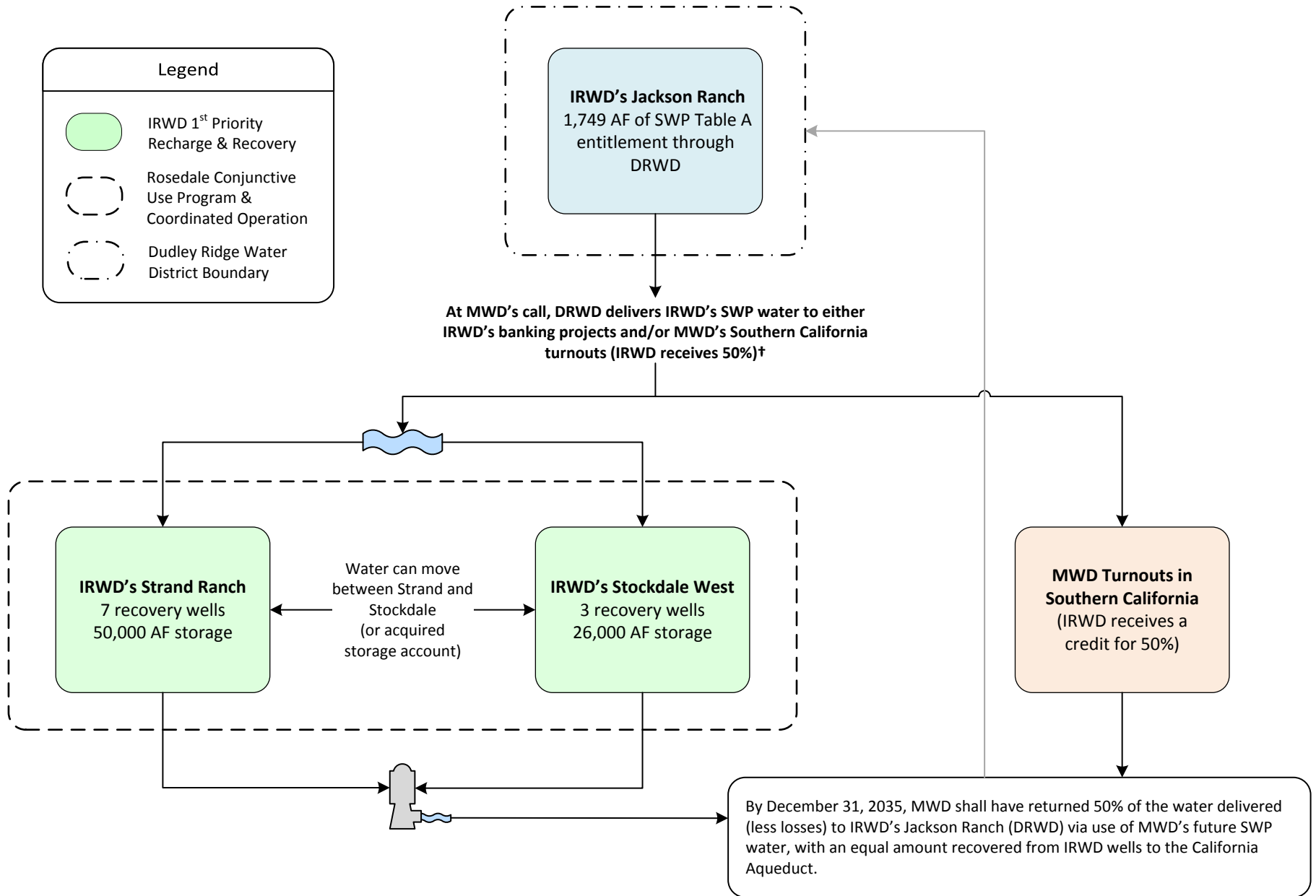
* IRWD agrees to pay BV \$25 per AF for IRWD's share of the Augmentation Water and Exchange Water

[†]IRWD shall remit one-half of the exchanged supply less one-half of reasonable losses back to BV no later than December 31st of the 4th year following the associated recharge event. BV pays for recovery of its share of Augmentation Water. Water to be remitted back to BV may remain in storage at Strand Ranch beyond the 4th year, in exchange for a greater percent being transferred to IRWD as compensation per the table shown to the right:

Year Following Recharge Event	Percent Transferred to IRWD	Percent Returned to BV During or Before Indicated Year
1	50%	50%
2	50%	50%
3	50%	50%
4	50%	50%
5	60%	40%
6	70%	30%
7	80%	20%
8	90%	10%
9	100%	0%

Exhibit "L"

**Dudley Ridge Water District (DRWD) Unbalanced Exchange
Program Up to 12,240 AF delivered from 6/7/2018 through 12/31/2027**



†Consistent with IRWD-MWD coordinated operating agreement.

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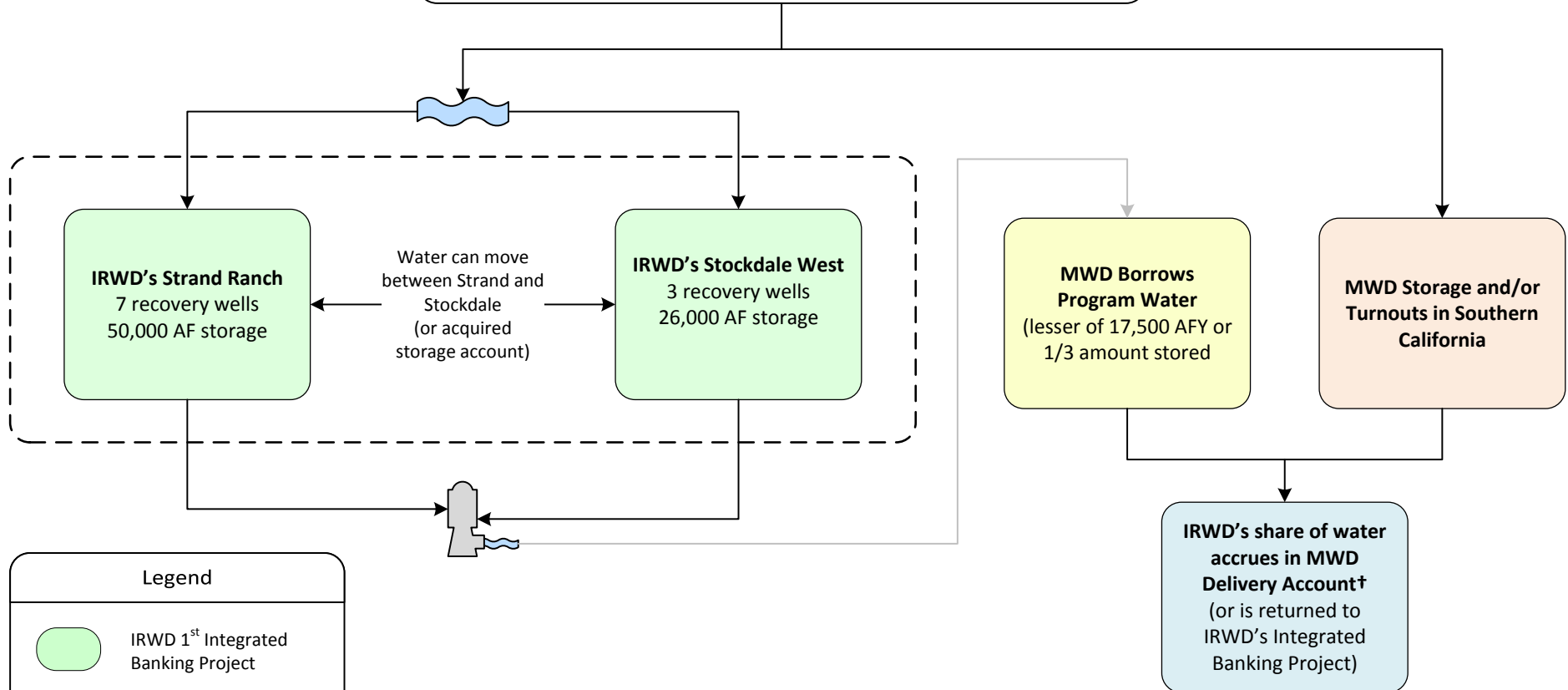
Exhibit "M"

Coordinated Operating, Water Storage, Exchange and Delivery Agreement Between MWD, MWDOC and IRWD
Effective 5/1/2011 through 11/4/2035

With MWD's consent, IRWD secures SWP water (Program Water) through exchanges with IRWD Banking Partners for use as extraordinary supply under MWD Water Supply Allocation Plan

MWD has three options for the use and storage of Program Water:

- Storage of water in IRWD's Integrated Banking Project
- Delivery to Southern California for immediate use and/or storage in MWD system
- Borrow a portion of Program water, with accrual in MWD Delivery Account

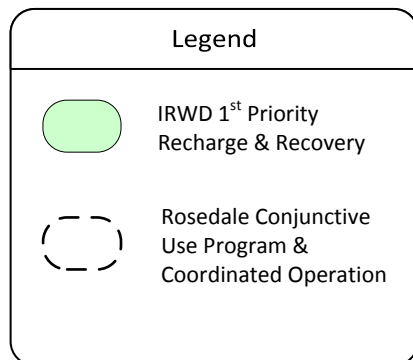
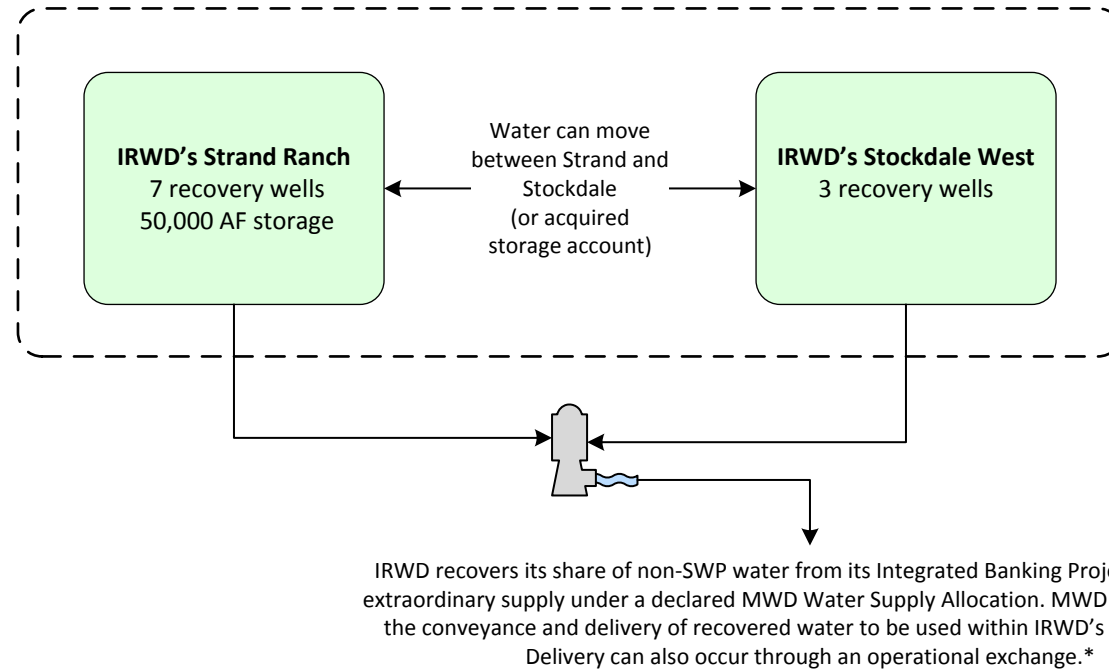


- Under an MWD Allocation, when IRWD calls for water, IRWD must first recover Program Water from the Integrated Banking Project before receiving water from the MWD Delivery Account.
- MWDOC shall pass through extraordinary supply credits for IRWD's benefit.
- † IRWD's banking partner share of Program Water to be returned by MWD.

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Exhibit "N"

Agreement for Conveyance of Water Between MWD, MWDOC, and IRWD (Wheeling Agreement)
Template for future agreements



*The recovered water must be used within IRWD's service area. IRWD to pay MWD wheeling charges, including system access rate, water stewardship rate, and treatment surcharge (if applicable), for each acre foot of recovered water wheeled by MWD. IRWD will pay the actual costs of power incurred by MWD to convey recovered water in the California Aqueduct to IRWD delivery points.

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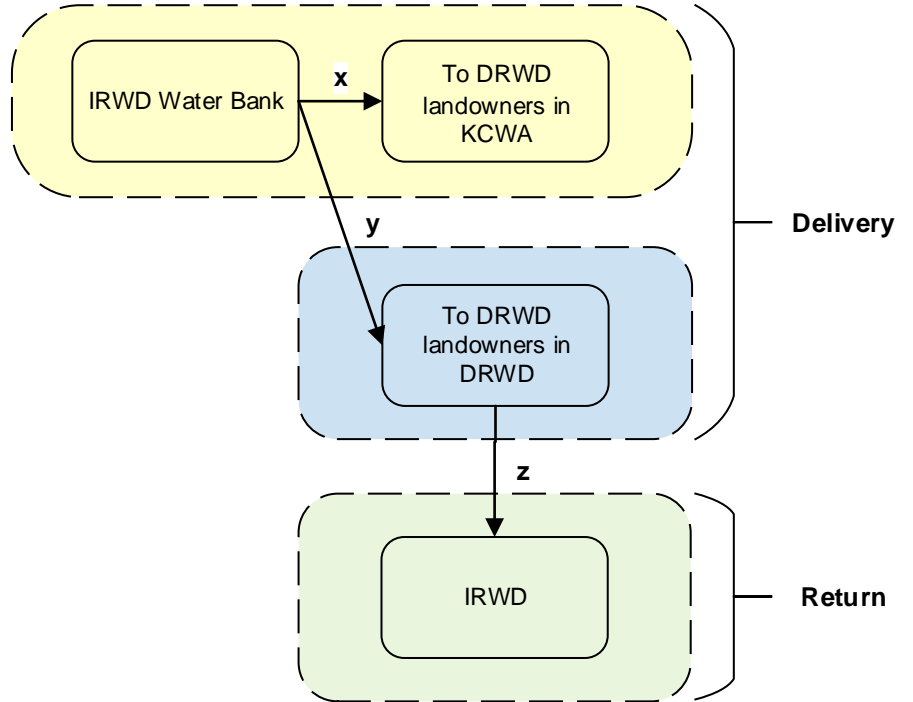
Exhibit "O"
Dudley Ridge Water District Long Term 1-for-1 Water Exchange Program
 Effective 5/31/2017 through 11/4/2035

Scenario A

(Per Sections 2, 3, 4.1.1, and 4.1.3)

x= Non-Project Water required to stay in Kern County
 y= Non-Project Water allowed to leave Kern County
 z= DRWD Table A Water equal to x+y less applicable losses, if any

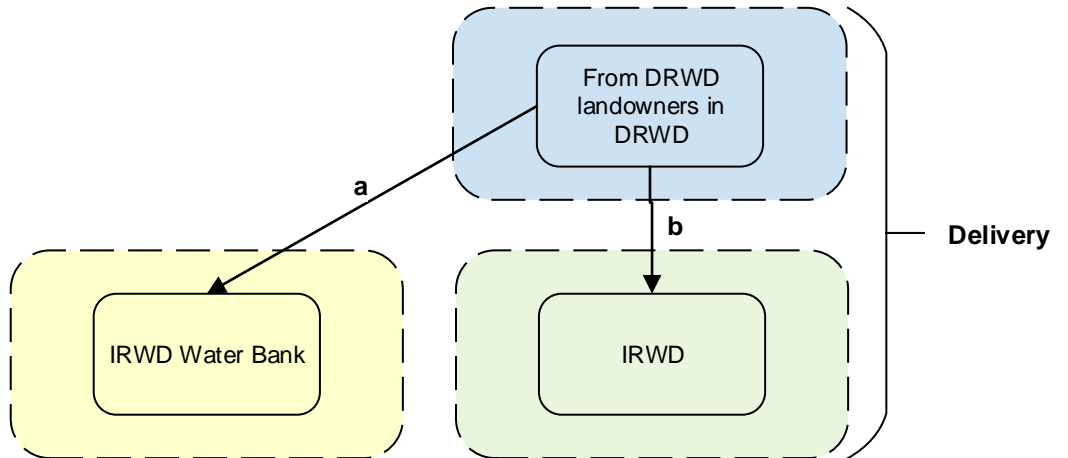
Per Section 4.1.3, z can be delivered to IRWD via in-ground transfer to IRWD, SWP delivery to IRWD banking facilities, or SWP delivery to MWDSC



Scenario B

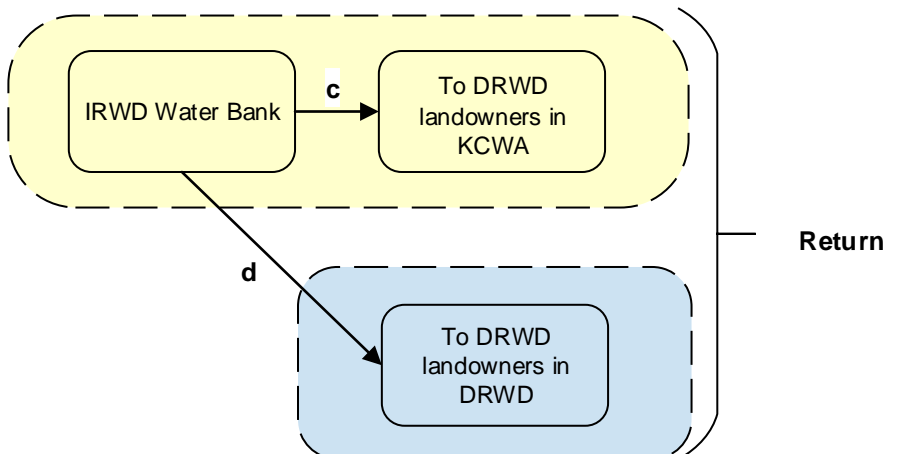
(Per Sections 2, 3, and 4.1.2)

$a + b = c + d$
 (less applicable losses, if any)



Legend

 	KCWA Service Area
 	DRWD Service Area
 	IRWD Service Area



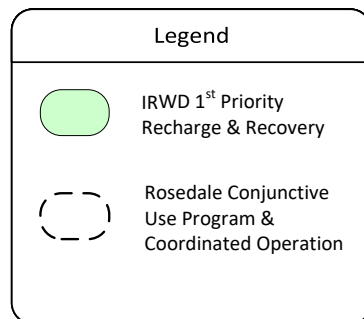
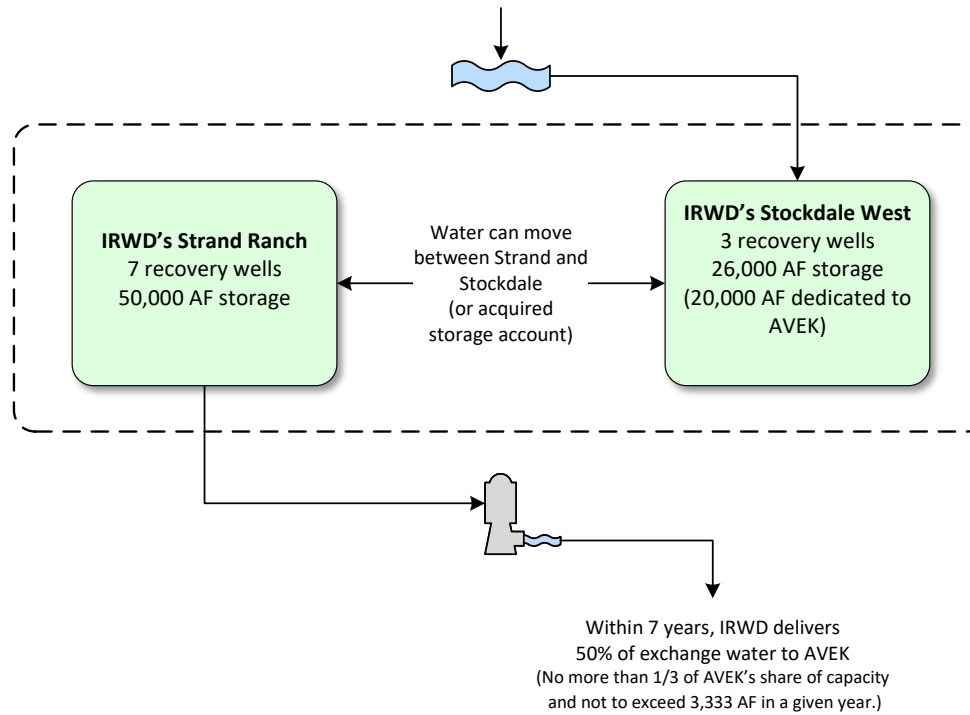
†The cost of water exchanged between IRWD and DRWD will be equalized

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Exhibit "P"

Antelope Valle-East Kern Water Agency (AVEK) Long Term Water Exchange Program Effective 12/21/2018 through 12/31/2035

AVEK delivers SWP water to IRWD Water Bank
(IRWD receives 50%)
(Up to 20,000 AFY or 2,200 AF/mo.)*

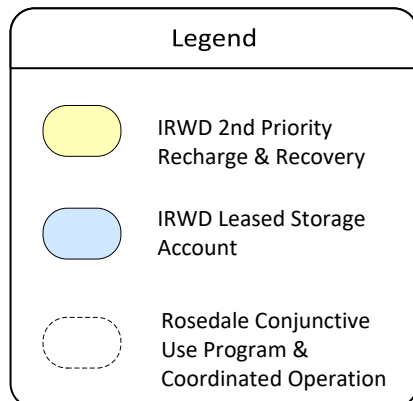
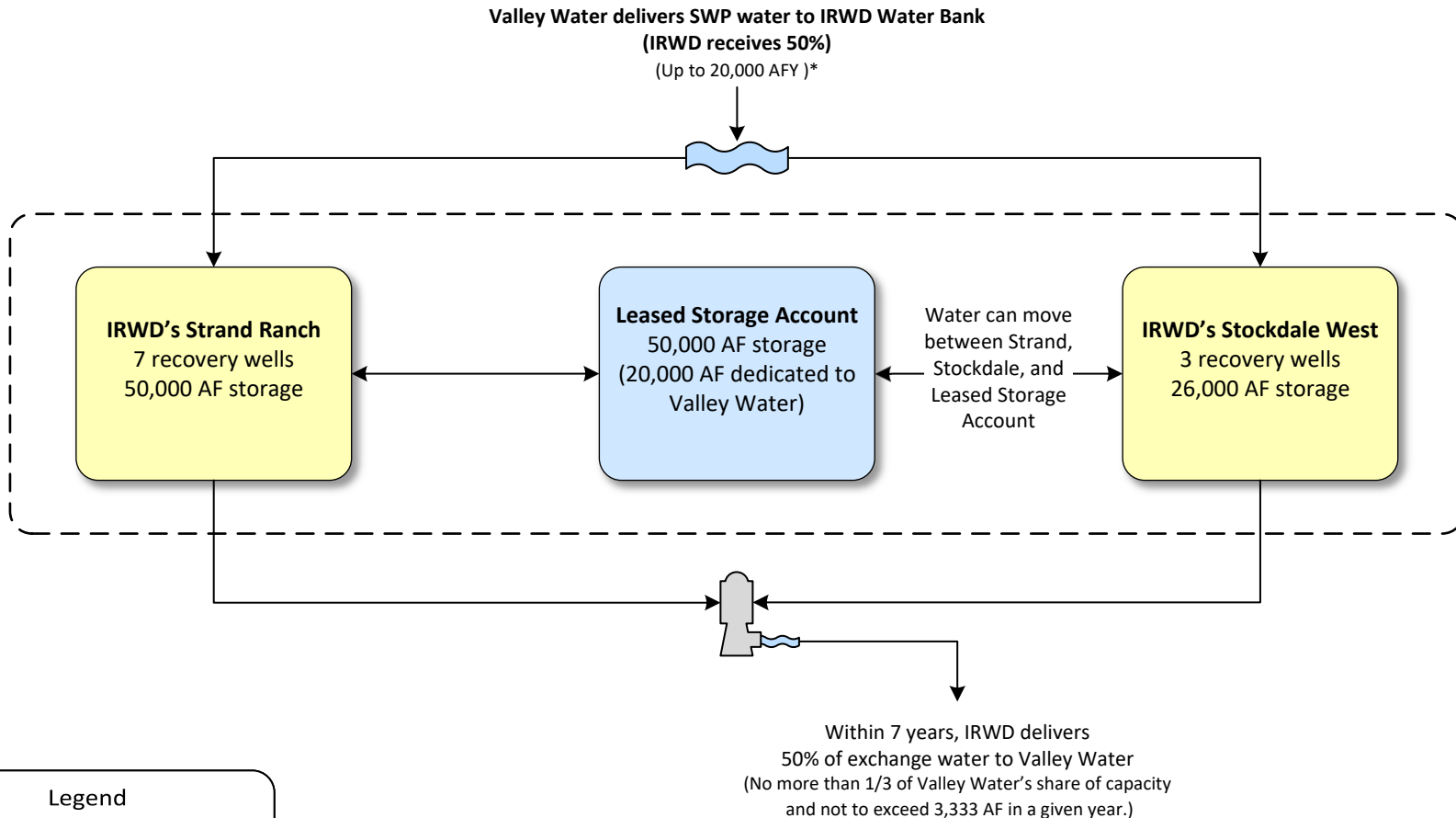


*Up to 20,000 AF per year of AVEK Exchange Water may be delivered to IRWD for recharge using recharge facilities at the Strand Ranch and Stockdale West for storage in the Stockdale West Bank. IRWD shall remit one-half of stored supplies less one half of losses back to AVEK no later than December 31st of the 7th year, following the associated recharge event.

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Exhibit "Q"

Santa Clara Valley Water District (Valley Water) Long Term Water Exchange Program
Effective 9/4/2024 through 12/31/2035



*Up to 20,000 AF per year of Valley Water Exchange Water may be delivered to IRWD for recharge using recharge facilities at the Strand Ranch and Stockdale West for storage in IRWD's Leased Storage Account. IRWD shall remit one-half of stored supplies less one half of losses back to Valley Water no later than December 31st of the 7th year, following the associated recharge event.

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Exhibit "R"

TABLE 6

Cost of Water Exportable to IRWD Service Area

October 16, 2025

Program Partner	Agreement	Water Type	IRWD Exportable Water Stored in Kern County ^{1,4} (AF)	Cost of Water (\$/AF) ⁵	Estimated Recovery of Water ² (\$/AF)	2025 MWD Tier 1 Untreated Rate and SAC Surcharge ³ (\$/AF)	Total Cost of Water to IRWD Service Area (\$/AF)
Carpinteria	2008 Short Term	Table A	250	\$223	\$130	\$ 913	\$1,266
	2011 Short Term	Table A	-	\$219	\$130	\$ 913	\$1,262
Buena Vista	2010 Short Term	Kern River	-	\$225	\$130	\$ 913	\$1,268
	2011 Long Term	Kern River	10,772	\$230	\$130	\$ 913	\$1,273
	2023 Short Term	Kern River	1,923	<i>Pending</i>	\$130	\$ 913	<i>Pending</i>
AVEK	2011 Short Term	Table A	-	\$220	\$130	\$ 913	\$1,263
	2023 Long Term	Table A	3,032	<i>Pending</i>	\$130	\$ 913	<i>Pending</i>
Metropolitan	2014 Short Term	Table A	-	\$227	\$130	\$ 913	\$1,270
Central Coast	2017 Short Term	Table A	-	\$249	\$130	\$ 913	\$1,292
	2019 Short Term	Table A	25	\$239	\$130	\$ 913	\$1,282
	2023 Short Term	Table A	193	<i>Pending</i>	\$130	\$ 913	<i>Pending</i>
DRWD	2013 Long Term	Table A, Article 21	-	<i>Pending</i>	\$130	\$ 913	<i>Pending</i>
	2018 Long Term	Table A	1,542				
Total			17,737				

¹ Water banking data from 2010 to 2023. Buena Vista water and Carpinteria 2008 water is not exportable but can be exchanged for an exportable water supply.

² Recovery costs include estimated PG&E power for pumping, CVC charges, Recovery O&M, and Rosedale administrative charges to deliver to MWD service area.

³ Assumes IRWD would take delivery as extraordinary supply through Irvine Lake to the Baker Water Treatment Plant. The SAC surcharge rate is estimated at \$1/AF.

⁴ Exhibit R takes the IRWD balance stored in Kern minus the following non-exportable supplies: Semitropic, Dudley Ridge (SWPAO #19001), and Buena Vista 2023.

⁵ Cost of Water = Capital Component (\$190) + Fixed Costs (\$21) + Variable Recharge Costs

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Summary of IRWD's Coordinated Operating, Water Storage,
Exchange and Delivery Agreement with Metropolitan Water District and
Municipal Water District of Orange County (MWDOC)
(February 8, 2024)

Agreement approved (unanimously) by the IRWD Board on November 22, 2010;
Agreement Term: April 21, 2011 to November 4, 2035

Summary of Benefits to IRWD:

1. IRWD benefits from all State Water Project (SWP) water IRWD secures; Metropolitan's borrowing of this water is temporary.
2. On behalf of IRWD, Metropolitan uses its SWP exchange and conveyance capacities to move IRWD's water for banking.
3. IRWD can "store" water in Metropolitan's system as a credit, freeing up space in IRWD's Water Bank with the water stored closer to the IRWD service area.
4. IRWD does not incur conveyance or evaporation losses on its water that is conveyed in Metropolitan's system and stored in Metropolitan's reservoirs.
5. IRWD avoids groundwater recovery (pumping) costs when Metropolitan issues a credit for IRWD's SWP supplies in Southern California (currently \$122/AF¹).
6. IRWD pays Metropolitan's melded system power rate – currently \$182/AF, not DWR's current power costs of \$330/AF² (\$148/AF savings).
7. Deliveries are on-demand to IRWD at its service connections in Orange County, which are not subject to lower priorities for wheeling.
8. Metropolitan pays all SWP costs, including variable OMP&R supply costs, associated with SWP water secured by IRWD³.
9. IRWD pays Metropolitan's Full-Service Tier-1 Untreated Rate, which is currently \$903/AF, for deliveries at its service connections allowing IRWD to avoid higher Metropolitan wheeling charges.
10. IRWD only pays once for supply at the current Tier-1 Supply Rate of \$332/AF.
11. Deliveries to IRWD's service area qualify as Extraordinary Supply during a Water Supply Allocation, allowing IRWD to avoid Metropolitan's Allocation Surcharge of between \$1,480/AF and \$2,960/AF.
12. IRWD increases local water supply reliability for its ratepayers.

¹ Estimated from IRWD's current groundwater pumping costs and Water Bank related operations costs. Metropolitan has the option to extinguish credits by returning water to the IRWD Water Bank. In recent borrowing letter agreement, Metropolitan agreed to waive its ability to return borrowed water to the Water Bank.

² Melded system and actual power costs were taken from Metropolitan's Fiscal Years 2022-23 and 2023-24 Biennial Budget Report and 2022 Cost of Service Study.

³ Does not include fixed costs paid by IRWD's unbalanced exchange partners. In 2014 and 2017, Metropolitan's SWP costs were \$1,097/AF and \$359/AF, respectively.

Summary of Benefits to MWD:

1. Metropolitan maintains control of all SWP supplies entering its service area as required by its SWP Contract with California Department of Water Resources (DWR).
2. Metropolitan's investments in the SWP are protected by not causing a reduction in revenue received by Metropolitan for payment of SWP fixed charge obligations.
3. Metropolitan can temporarily borrow SWP water secured by IRWD.
4. Metropolitan is assured that IRWD is not competing for water supplies.
5. Increased regional water supply reliability.

Exhibit "T"

TABLE 8
IRWD 2025 Recharge Operations- BEFORE LOSSES
 October 16, 2025

Actual and Forecasted Amounts:

Month	IRWD Table A (AF)	DRWD 1:1 (AF)	DRWD 1:1 Pre-delivery (AF)	MWD ¹ (AF)	Homer (AF)	Valley Water (AF)	Total (AF)	Status	Expected Recharge ² (AF)	Expected Recharge Rate (CFS)
January	-	1,978		-	-	-	1,978	prelim	1,978	130
February	-	-		-	-	-	-	prelim	-	120
March	-	-		-	-	-	-	prelim	-	100
April	-	-		-	-	-	-	prelim	-	80
May	-	-		-	-	-	-	prelim	-	80
June	-	-		-	-	-	-	prelim	-	80
July	877	2,711	6,000	-	-	-	9,588	prelim	na	na
August	-	-		-		-	-	prelim	-	80
September	-	-		-	-	-	-	prelim	-	80
October	-	-	-	-	-	-	-	prelim	-	80
	877	4,689	6,000	-	-	-	11,566			
November	-	-	-	-	1,854	-	1,854		1,854	80
December	-	-	-	-	-	-	-		-	80
Total	877	4,689	6,000	-	1,854	-	13,420		3,832	
Recharge goal:	877	4,689	6,000	79	1,854	-	13,499			

¹ MWD expects to return the 79 AF to the IRWD Water Bank in 2026.


² The expected recharge is based on the expected recharge rate and remaining recharge capacity. Deliveries to the IRWD Water Bank in July were recharged through an in-lieu exchange of water being recovered for Buena Vista Water Storage District.

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October 16, 2025

Prepared by: F. Nye

Submitted by: F. Nye / P. Weghorst

Approved by: Paul A. Cook 

SUPPLY RELIABILITY PROGRAMS COMMITTEE

DRAFT TERMS FOR AN EXCHANGE PROGRAM BETWEEN IRWD AND ZONE 7 WATER AGENCY

SUMMARY:

IRWD and Zone 7 Water Agency have developed draft terms for an Exchange Program that would allow Zone 7 to deliver State Water Project (SWP) water into storage at the recently constructed facilities of the Kern Fan Groundwater Storage Project, with one-half of the water being transferred to IRWD. Staff recommends that the Board authorize the General Manager to execute an agreement with Zone 7 based on the draft terms presented at the meeting, subject to non-substantive changes.

BACKGROUND:

Zone 7 Water Agency, based out of Livermore, California, is a SWP contractor with an SWP Table A water entitlement of 80,619 acre-feet (AF). In 2024, staff began discussions with Zone 7 regarding its interest in storing a portion of its Table A water in IRWD water banking facilities on a 2-for-1 basis. Discussions have evolved to envision an Exchange Program that would allow Zone 7 to deliver water into storage at IRWD's share of the recently constructed facilities at the Kern Fan Project, also referred to as "Initial Project Facilities."

The Kern Fan Project, located in Kern County, is a water banking project being developed, owned, and operated by the Groundwater Banking Joint Powers Authority (GBJPA). The GBJPA consists of two agencies: IRWD and Rosedale-Rio Bravo Water Storage District. Both agencies have first-priority access to 50% of the capacity at the Initial Project Facilities, which are comprised of approximately 320 acres of recharge ponds and four recovery wells on the West Enos and Stockdale North properties. IRWD's first-priority recharge capacity at the Initial Project Facilities is estimated at 15,000 acre-feet per year (AFY) and IRWD's first-priority recovery capacity is estimated at 9,700 AFY. IRWD's use of storage, recharge, and recovery capacities associated with its share of the Initial Project Facilities will be administered through an Interim Operating Agreement for the Groundwater Banking Joint Powers Authority Kern Fan Project Facilities to be approved by the Board under separate action. IRWD's first priority recharge and recovery capacities in the Initial Project Facilities would be utilized for the Zone 7 Exchange Program.

Exchange Program Proposed Terms:

The proposed Exchange Program would allow Zone 7 to deliver its SWP supplies into the Initial Project Facilities. IRWD's storage capacity at the Initial Project Facilities, 15,000 AF, will be allocated to the Zone 7 Exchange Program, with Zone 7's share of the water being limited to a maximum account balance of 7,500 AF. Zone 7 could recharge water multiple times over the term of the program. Zone 7's share of the water would be returned by the end of the program

term. Metropolitan will hold one-half of the SWP water delivered by Zone 7 on behalf of IRWD (as it does for IRWD's other SWP water stored in IRWD's water banks) in the Initial Project Facilities; Metropolitan will hold the other half of this water on behalf of Zone 7 in accordance with the contract.

The proposed draft terms are provided as Exhibit "A". Staff recommends that the Board authorize the General Manager to execute an Exchange Program Agreement with Zone 7 based on the draft terms.

FISCAL IMPACTS:

IRWD and Zone 7 would be responsible for recharge and recovery costs associated with their respective shares of the water delivered into storage under the Exchange Program. Zone 7 would pay for all fixed SWP costs associated with making the water available for recharge, including the water that will be held by Metropolitan on behalf of IRWD.

ENVIRONMENTAL COMPLIANCE:

Environmental Impact Reports for the Kern Fan Groundwater Storage Project, as well as the Strand Ranch and Stockdale Integrated Banking Projects were prepared, certified, and approved in compliance with California Environmental Quality Act (CEQA) of 1970 (as amended), codified at California Public Resources Code Sections 21000 et. seq., and the State CEQA Guidelines in the Code of Regulations, Title 14, Division 6, Chapter 3. Corresponding Notices of Determinations were filed in Kern and Orange Counties.

RECOMMENDATION:

That the Board authorize the General Manager to execute an Exchange Program Agreement with Zone 7 Water Agency based on the draft terms presented, subject to non-substantive changes.

LIST OF EXHIBITS:

Exhibit "A" – Draft Terms for Exchange Program between IRWD and Zone 7 Water Agency

Exhibit “A”

Draft Terms for Exchange Program
Between Irvine Ranch Water District and Zone 7 Water Agency
October 16, 2025

Parties	Irvine Ranch Water District (IRWD) and the Zone 7 Water Agency (Zone 7).
Purpose	<p>IRWD and Zone 7 would implement an Exchange Program that would allow Zone 7 to deliver State Water Project (SWP) water into storage on a 2-for-1 basis at IRWD’s share of newly constructed capacities for the Kern Fan Groundwater Storage Project (“Kern Fan Project”). The newly constructed facilities are herein referred to as “Initial Project Facilities”.</p> <p>All recharge and recovery facilities at the Initial Project Facilities and the IRWD Water Bank and any facilities operated in conjunction with the IRWD Water Bank could be used to deliver water in and out of storage.</p>
Coordination with State Contractors and the State	<p>Zone 7 has a long-term water supply contract with the California Department of Water Resources (“DWR”) that permits Zone 7 to receive water supply, storage, and conveyance services from the SWP (“Water Supply Contract”).</p> <p>Metropolitan Water District of Southern California (“Metropolitan”) has a long-term Water Supply Contract with DWR. IRWD receives SWP supplies from Municipal Water District of Orange County (“MWDOC”), which is a member agency of Metropolitan.</p> <p>Kern County Water Agency (“KCWA”) also has a long-term Water Supply Contract with DWR. Consent from KCWA is required to deliver Zone 7’s water into storage in Kern County.</p> <p>IRWD and Zone 7 would cooperate with DWR, KCWA, and Metropolitan in preparing all necessary agreements to facilitate the Exchange Program. IRWD and Zone 7 shall each be responsible for their own costs associated with coordination.</p>
Program Term	The Program Term will last from the effective date of the Exchange Program Agreement through November 4, 2035.
IRWD Water Bank	IRWD owns the Strand and Stockdale Integrated Banking Projects, collectively referred to as the IRWD Water Bank. At IRWD’s discretion, the IRWD Water Bank may be used to facilitate recharge and recovery for the Exchange Program subject to the use of facilities by IRWD and its other exchange program partners.

<p>Kern Fan Project</p>	<p>The Kern Fan Project, located in Kern County, is a water banking project being developed, owned and operated by the Groundwater Banking Joint Powers Authority (GBJPA). IRWD and Rosedale are the two members of the GBJPA. Both members have first-priority access to fifty percent of the capacity of the Initial Project Facilities, which are to be comprised of approximately 320 acres of recharge ponds and 4 recovery wells on the West Enos and Stockdale North properties as shown on Attachment 1. IRWD’s first-priority recharge and recovery capacities in the Initial Project Facilities shall be used for the Exchange Program.</p> <p>IRWD’s use of storage, recharge and recovery capacities associated with its share of the Initial Project Facilities are to be administered through the Interim Operating Agreement for the Groundwater Banking Joint Powers Authority Kern Fan Project Facilities Amongst the GBJPA, Rosedale and IRWD dated _____, 2025, and as amended in the future. Currently, IRWD’s first-priority recharge capacity at the Initial Project Facilities is estimated at 15,000 acre-feet per year and IRWD’s first-priority recovery capacity is estimated at 9,700 acre-feet per year.</p>
<p>Storage Capacity</p>	<p>Up to 15,000 acre-feet (AF) of storage capacity (“Total Program Storage Capacity”) would be dedicated to the Exchange Program using IRWD’s capacity in the Initial Project Facilities. The Maximum Account Balance to be allocated for the storage of Zone 7’s share of the water stored in the Initial Project Facilities would be 7,500 AF. IRWD could, with 18 months-notice, reduce the Total Program Storage Capacity and Maximum Account Balance allocated to Zone 7 should it not reasonably exercise its ability to deliver water into storage at the Initial Project Facilities.</p>
<p>Exchange Water</p>	<p>During the Program Term, Zone 7 may deliver SWP water to Metropolitan at the Initial Project Facilities that is available to Zone 7 through its SWP Water Supply Contract with DWR (“Exchange Water”). One-half of the Exchange Water would be available to Zone 7 as Return Water for use within Zone 7’s service area and half of the water would remain in storage for Metropolitan on behalf of IRWD. The volume of Zone 7’s share of the water would be restricted by its Maximum Account Balance with IRWD’s share being stored in the remaining portion of the Total Program Storage Capacity and other storage capacity available to IRWD. Both Zone 7 and IRWD’s share of the water would be subject to losses as described below.</p> <p>Recharge capacity to accept Exchange Water would be subject to scheduling and availability after IRWD’s use of facilities to recharge water for itself. The Parties would cooperate in scheduling the Exchange Water deliveries with both scheduled and expected deliveries associated with other IRWD deliveries and exchange programs. The recharge would be subject to available recharge capacity, infiltration rates, available Cross Valley Canal (“CVC”) capacity, other conveyance facility capacity, terms of the Interim Operating Agreement, and terms of IRWD’s Coordinated Operating, Water Storage, Exchange and Delivery Agreement with Metropolitan and MWDOC (“Coordinated Agreement”).</p>

Return Water	<p>IRWD will return Zone 7's share of the Exchange Water to Zone 7 less losses by pumping wells at an annual rate of no more than one-third of Zone 7's Maximum Account Balance not to exceed 2,500 AF per year. The return of Zone 7's share of the water would be subject to scheduling and actual well pumping rates.</p> <p>Metropolitan will provide Return Water to Zone 7 using its SWP supplies, and in exchange, Metropolitan will accept delivery of water recovered from the IRWD Water Bank and delivered through the CVC to reach 12E of the California Aqueduct to Metropolitan's service area. IRWD could allow Zone 7 to recover more water in a year, if IRWD determines that the use of additional recovery capacity by Zone 7 would not infringe on IRWD's ability to recover water for itself or its other programs.</p> <p>All deliveries of Return Water must be complete by the end of Program Term.</p>
Delivery Points	<p>The IRWD Point of Delivery ("IRWD POD") for the Exchange Water under this program shall be at an IRWD Water Bank turnout on the CVC as well as other turnouts to conveyance facilities available to IRWD consistent with the Interim Operating Agreement. The Zone 7 Point of Delivery (Zone 7 POD) for the Return Water shall be at the Banks Pumping Plant. IRWD, Metropolitan, and Zone 7 shall coordinate with KCWA for the conveyance of Exchange Water and Return Water utilizing the CVC. Metropolitan and Zone 7 shall coordinate any required approval with the DWR for delivery of Exchange Water and Return Water.</p>
Losses	<p>Water Banking losses shall be shared equally between IRWD and Zone 7, estimated at between 11% and 15% at the time of recharge. Zone 7 and IRWD each may incur additional conveyance losses of 1% to 2% in the CVC for conveyance of each agency's share of the water, as measured by KCWA.</p>
Recharge Costs	<p>IRWD shall pay all costs assessed to IRWD by the GBJPA and Rosedale for recharging water at the Initial Project Facilities and/or at the IRWD Water Bank. Zone 7 would reimburse IRWD for 50% of these costs paid by IRWD upon delivery of Return Water to Zone 7.</p> <p>Costs assessed by the GBJPA and Rosedale will be consistent with the Interim Operating Agreement and the Water Banking and Exchange Program Agreement between Rosedale and IRWD dated January 13, 2009. These estimated costs may include an administrative charge of about \$4 per AF, third party wheeling charges assessed by KCWA of \$5 per AF, CVC Standby, actual CVC pumping and O&M costs of about \$15 per AF, and applicable fixed and variable O&M water banking costs of approximately \$5 per AF. Additionally, replacement and refurbishment costs may be assessed at about \$5 per AF. Zone 7 would also be responsible for paying one-half of the KCWA transaction request fee, estimated at \$3,000.</p>

Recovery Costs	<p>Zone 7 shall pay any costs assessed by the GBJPA or Rosedale for the extraction of Return Water utilizing capacities within the Interim Project Facilities and/or IRWD Water Bank including costs associated with groundwater pumping, administrative charges, other associated O&M costs, and any costs assessed by KCWA. Zone 7 shall be responsible for any costs associated with the use of CVC pumping, CVC capacity or other facilities for the conveyance of the Return Water. Zone 7 would be responsible for paying a KCWA transaction request fee of \$3,000 associated with delivery of its Return Water.</p> <p>Zone 7 shall be responsible for any costs assessed by Rosedale and/or the GBJPA under the Long-Term Operations Plan for implementing provisions to prevent operation impacts. It is expected that banking projects, such as the Interim Project Facilities, may be required to contribute \$2 per AF for recovered water to a fund, which may be used to meet mitigation obligations.</p>
SWP Fixed and Variable Costs	<p>Metropolitan will pay the DWR Variable Operation, Maintenance, Power, and Replacement (OMP&R) charges estimated at \$30 per AF associated with the delivery of the Exchange Water from the Delta to IRWD POD consistent with the Coordinated Agreement or as otherwise specified by DWR.</p> <p>For delivery of Return Water to the Zone 7 POD and the subsequent exchange delivery to Zone 7's service area, Zone 7 will pay the DWR Variable OMP&R charges from the Delta.</p> <p>Zone 7 shall pay all fixed SWP costs associated with making all Exchange Water available for recharge for the Exchange Program.</p>
Environmental Compliance	<p>The Parties shall comply with California Environmental Quality Act (CEQA) and cooperate with one another with respect to CEQA compliance work that may be required to implement the Exchange Program. The GBJPA has already conducted environmental review, certified a CEQA document and filed a corresponding Notice of Determination for the Kern Fan Project. Rosedale certified and IRWD approved the CEQA documents for the IRWD Water Bank corresponding Notices of Determinations were filed by both Rosedale and IRWD. Rosedale certified other CEQA documents for its Conjunctive Use Program and related projects and filed corresponding Notices of Determinations.</p> <p>IRWD and Zone 7 will share equally any additional costs associated with any further environmental review or permitting deemed necessary for delivering Zone 7's water into storage (however, none are expected). Both IRWD and Zone 7 shall each be responsible for any other environmental review or permitting necessary to implement the Exchange Program within their own respective service areas.</p>
Water Rights	<p>It is expressly agreed, understood, and acknowledged by IRWD and Zone 7 that any existing or future delivery of Exchange Water to the Initial Project Facilities or IRWD Water Bank by Zone 7 will not result in or be considered a sale or transfer of Zone 7's contractual rights to SWP water or a sale or transfer of the GBJPA's and IRWD's ownership in the Initial Project Facilities or IRWD's ownership of the IRWD Water Bank.</p>

General Expenses	Each Party would be responsible for its own fees and expenses arising out of the negotiation and execution of the Exchange Program Agreement, obtaining necessary approvals, and the like.
Future Opportunities	The Parties agree to evaluate and discuss potential amendments to the Exchange Program Agreement related to Exchange Program extensions or future opportunities which could include provisions involving future Kern Fan Project facilities and/or for added flexibility and mutual benefit to the Parties.

Attachment 1
Initial Project Facilities

