
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 – SEESANGRIT / SANCHEZ / WEGHORST

Recommendation: Receive and file.

ACTION


6. TERMS FOR JOINT USE AGREEMENT WITH ROSEDALE RIO BRAVO WATER STORAGE DISTRICT AND KERN WATER BANK AUTHORITY

Recommendation: That the Board authorize the General Manager to execute an Agreement and Grant of Licenses by and Between Irvine Ranch Water District, Rosedale-Rio Bravo Water Storage District, and Kern Water Bank Authority for Construction and Joint Use of Facilities based on the terms presented at the meeting, subject to non-substantive changes approved by special legal counsel.

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.

March 24, 2025
Prepared by: M. Seesangrit
Submitted by: F. Sanchez / 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 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 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 and planned 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 this month to Exhibits “B” and “C” reflect deliveries to the IRWD Water Bank from Dudley Ridge Water District in the amount of 2,000 AF. This water was delivered as part of Dudley Ridge’s return obligation under the 1-for-1 program with the IRWD. Other changes to Exhibits “B” and “C” include CVC loss adjustments made to 2024 deliveries from IRWD’s State Water Project (SWP) allocation and from the 1-for-1 program with Dudley Ridge Water District.

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 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). 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, and AVEK. A new exhibit was added as Exhibit "Q" for the long-term exchange program with Santa Clara Valley Water District (Valley Water) that is currently being implemented. 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 to reflect 2023 and 2024 operations 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:

Projected 2025 deliveries to IRWD's Water Bank are depicted in Exhibit "T". In February, the Department of Water Resources (DWR) announced an increase in the 2025 SWP Table A allocation from 20% to 35%. Based on the updated allocation, IRWD's 2025 Table A amount at the Jackson Ranch in Dudley Ridge is currently projected to be 612 AF. It is expected that this water will be delivered to the IRWD Water Bank in the fall. Metropolitan will also return 79 AF of Dudley Ridge Table A water taken by Metropolitan in 2021 and 2022.

Deliveries are also expected from Homer and Valley Water. Homer is expected to recharge 1,854 AF. Valley Water is expected to recharge approximately 2,000 AF of SWP water at the IRWD Water Bank and is finalizing a State Water Project Analysis Office (SWPAO) agreement with DWR, Kern County Water Agency, and Metropolitan.

At the end of 2024, Central Coast Water Authority (CCWA) anticipated that San Luis Reservoir might spill and had requested an amendment to its 2019 Short Term Exchange Program to allow for additional deliveries to the IRWD Water Bank. There is now only a 10% chance of a spill at San Luis Reservoir and therefore CCWA does not intend to move forward with the amendment and the delivery of water to the IRWD Water Bank in 2025.

Recently, staff initiated discussions with Alameda County Water District and Zone 7 Water Agency on their potential interest in participating in IRWD's Water Bank. Staff will update the Committee on these discussions as relevant information becomes available.

At the Committee meeting, staff will provide an update on the status of anticipated water deliveries to the IRWD Water Bank for 2025. Staff will update the forecasted and preliminary delivery amounts shown in Exhibit "T" as the year progresses.

Water Supply Conditions Updates:

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 in 2025.

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
 March 24, 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. ² IRWD has use of Acquired Storage and Drought Relief Project wells until January 12, 2039, unless the term of the agreement is extended. ³ One 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.											

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Exhibit "B"

TABLE 2
IRWD's Water Banking Storage, Recharge and Recovery Operations - BEFORE LOSSES
 March 24, 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 TRANSACTIONS⁷	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 (35%)	-	-	-	-	-	-	-	-
Valley Water Long Term Exchange	-	-	-	-	-	-	-	-
Central Coast Short Term Exchange	-	-	-	-	-	-	-	-
DRWD 1-for-1 Long Term Exchange (Recharge) Est.	2,000	-	-	-	-	-	-	2,000
TOTAL ESTIMATED 2025 TRANSACTIONS⁷	2,000	-	-	-	-	-	-	2,000
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	19,547	20,598	11,181	225	3,536	-	1,218	56,305
Total DRWD 1-for-1 Long Term Exchange Credit ⁵	3,330	-	-	-	-	-	-	3,330
TOTAL ESTIMATED STORED WATER TO DATE	34,910	24,920	11,181	225	3,536	-	1,261	76,033

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. MWD took delivery of IRWD's 2022 SWP allocation in June 2022.

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.

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Exhibit "C"

TABLE 3
IRWD's Water Banking Storage, Recharge and Recovery Operations - AFTER LOSSES
 March 24, 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	10,113	193	3,032	-	748	41,207
Total DRWD 1-for-1 Long Term Exchange Credit ⁵	7,306	-	-	-	-	-	-	7,306
TOTAL STORED WATER (1/1/2024)	31,362	19,340	10,113	193	3,032	-	791	64,831
(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	10,113	193	3,032	-	1,045	43,683
Total DRWD 1-for-1 Long Term Exchange Credit	5,424	-	-	-	-	-	-	5,424
TOTAL STORED WATER (1/1/2025)	31,659	19,340	10,113	193	3,032	-	1,088	65,425
(RECOVERY) AND RECHARGE IN 2025 (AF)								
KWB Recovery for use on Jackson Ranch ⁶	-	-	-	-	-	-	-	-
2025 SWP Allocation (35%)	-	-	-	-	-	-	-	-
Valley Water Long Term Exchange	-	-	-	-	-	-	-	-
Central Coast Short Term Exchange	-	-	-	-	-	-	-	-
DRWD 1-for-1 Long Term Exchange (Recharge) Est.	1,715	-	-	-	-	-	-	1,715
TOTAL ESTIMATED 2025 TRANSACTIONS	1,715	-	-	-	-	-	-	1,715
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	15,917	15,098	10,113	193	3,032	-	1,045	45,398
Total DRWD 1-for-1 Long Term Exchange Credit	3,709	-	-	-	-	-	-	3,709
TOTAL ESTIMATED STORED WATER TO DATE	31,659	19,340	10,113	193	3,032	-	1,088	65,425

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.

MWD = Metropolitan Water District of Southern California.

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. MWD took delivery of IRWD's 2022 SWP allocation in June 2022. MWD will not take delivery of IRWD's 2023 SWP Allocation.

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. The 2022 beginning KWB balance was revised by DRWD based on KCWA 2021 end of year balances.

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 A portion of IRWD's 2023 SWP Deliveries from DRWD include 723 AF of Article 21, after losses, which was delivered to the Kern Water Bank.

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Exhibit "D"

TABLE 4
Status of IRWD Purchase and Exchange Programs (AFTER LOSSES)
 March 24, 2025

PARTNER	EXCHANGE RATIO	YEAR EXECUTED	AGREEMENT TYPE	WATER TYPE	PARTNER WATER		IRWD WATER									SELLABLE (Y/N)
					PARTNER SHARE (AF)	PARTNER BALANCE (AF)	IRWD SHARE (AF)	IRWD BALANCE			EXPORTABILITY					
								IN MWD SYSTEM (AF)	STORED IN KERN (AF)		OWED BY DUDLEY RIDGE WD	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	8,088	27,869		10,772			10,772		10,772		
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	2,099	1,088	2,182	1,055	1,126			2,182	2,182		1,088	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	11,290		11,290			11,290	15,000			No
				Credit	NA	NA	3,710			3,710	3,710				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	2,025	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:					47,907	14,425	68,196	12,033	29,510	1,504	3,710	46,757	31,409	15,348	1,088	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.

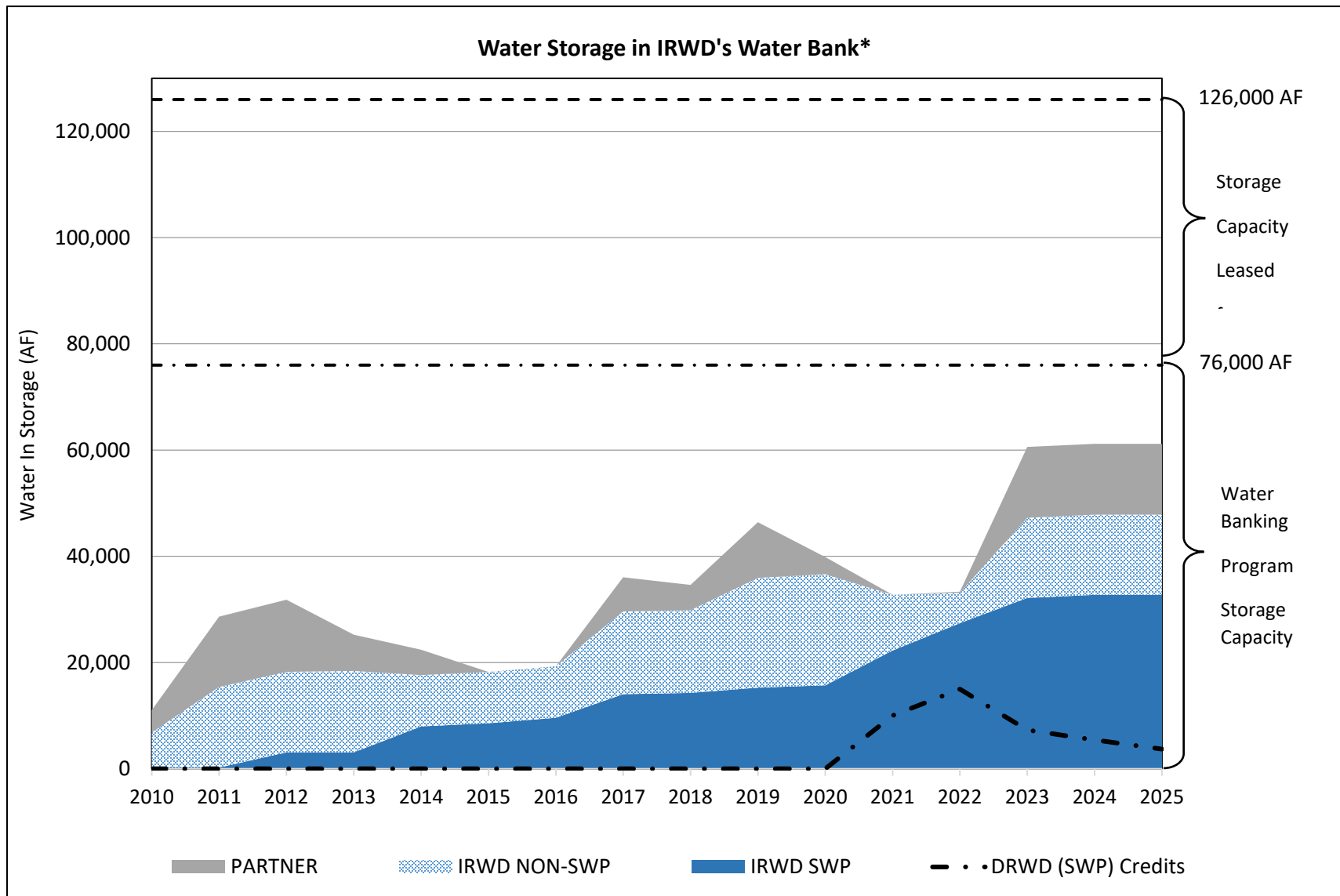
² Source of water was Buena Vista Water Storage District Kern River high flow water.

³ To account for the SWP water that will be returned to IRWD, the amount of water owed is shown as a credit. The total net of losses is 15,000 AF.

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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Exhibit "F"

TABLE 5
IRWD Dedicated Water Banking Capacities for Existing and Proposed Exchange Programs
 March 24, 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	-	-	-	-

Exhibit "F"

TABLE 6

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

February 20, 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%)

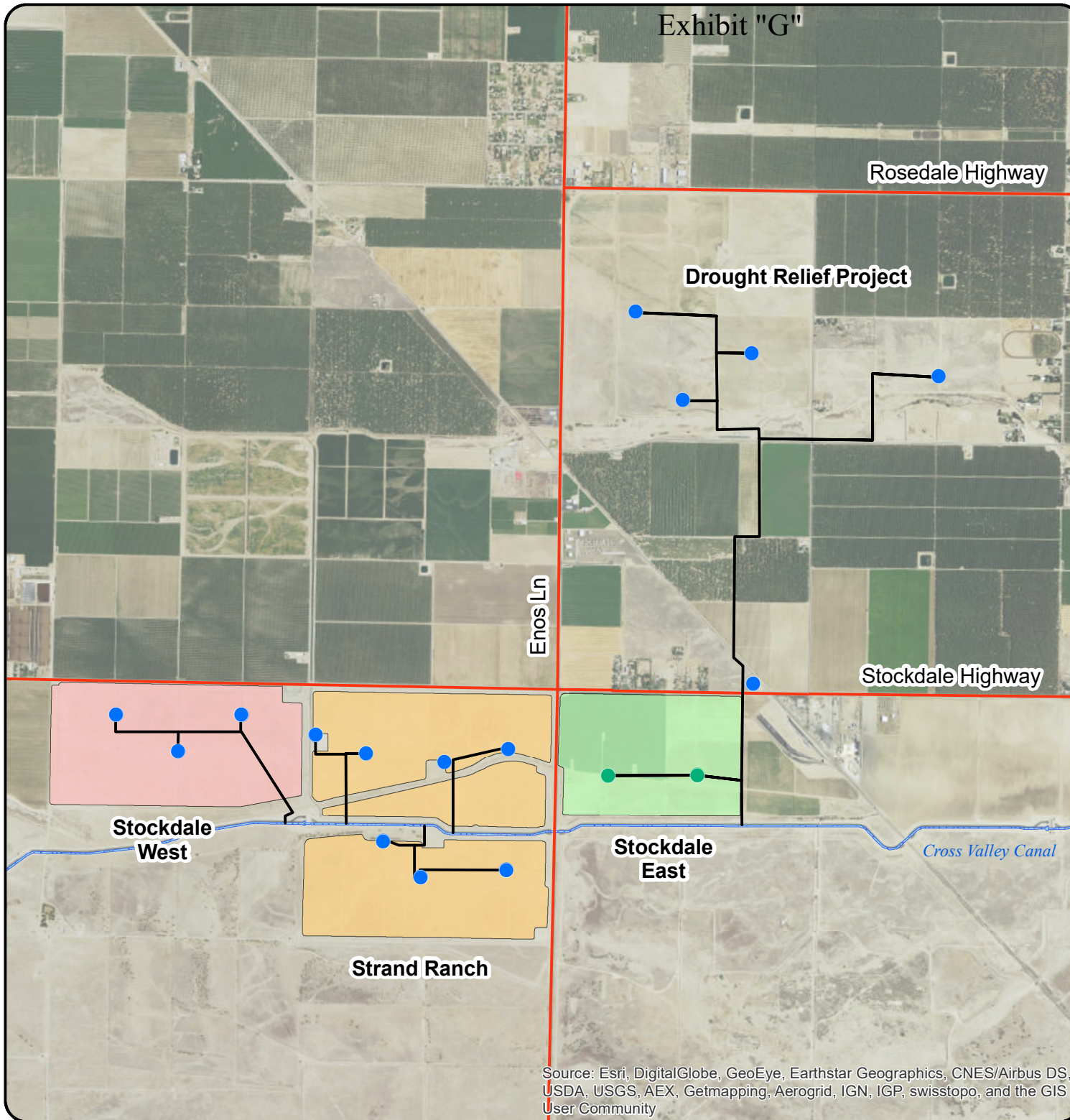


Location Map: IRWD Water Banking Projects Wells and Turnin Pipelines

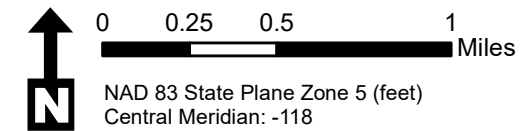
MAP FEATURES

- 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.



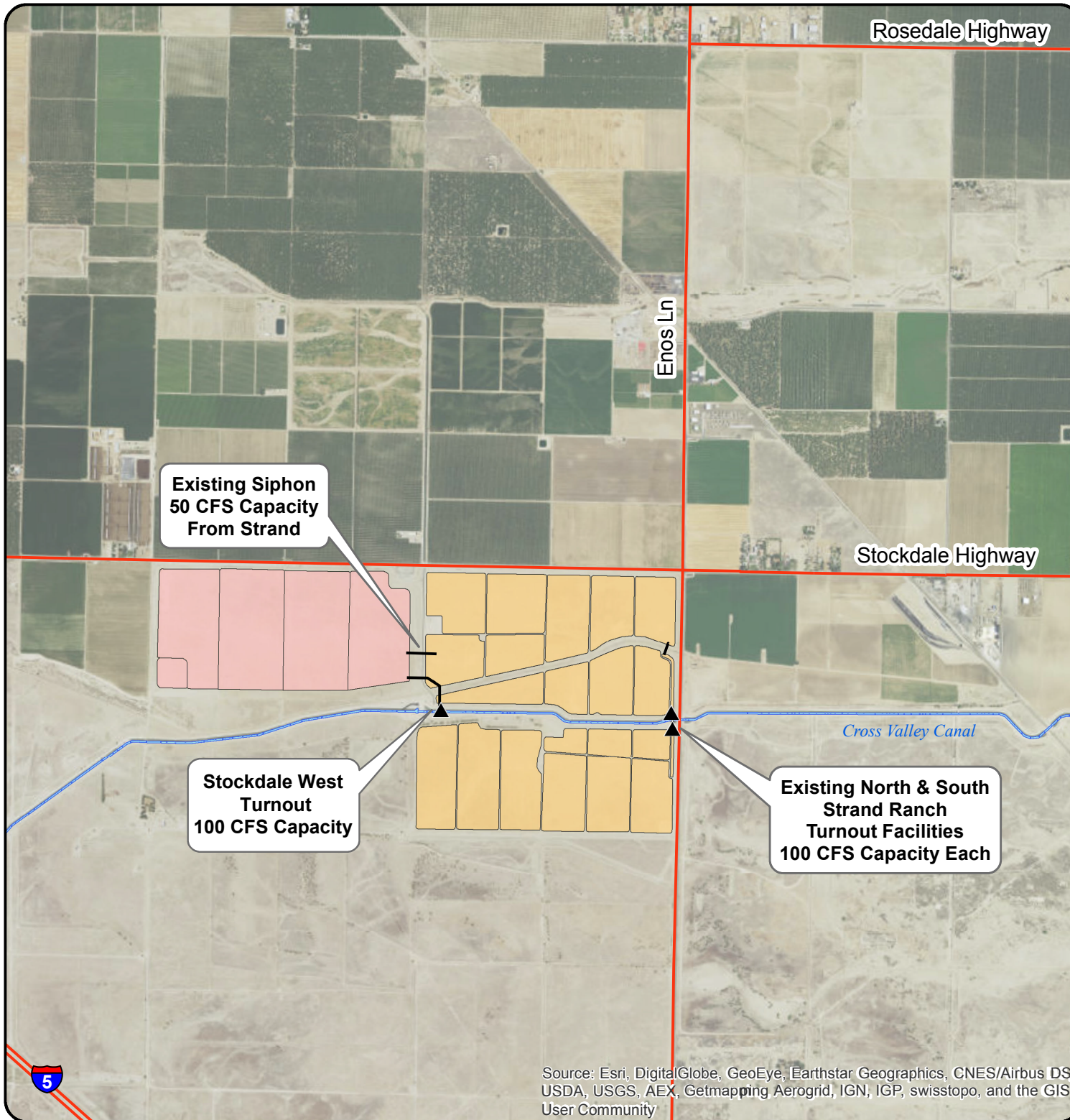
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



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



**Existing Siphon
50 CFS Capacity
From Strand**

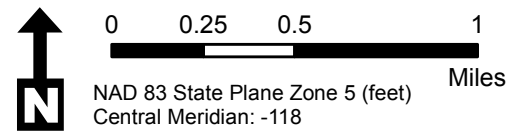
**Stockdale West
Turnout
100 CFS Capacity**

**Existing North & South
Strand Ranch
Turnout Facilities
100 CFS Capacity Each**

MAP FEATURES

- ▲ Turnouts
- Stockdale West
- Strand Ranch

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

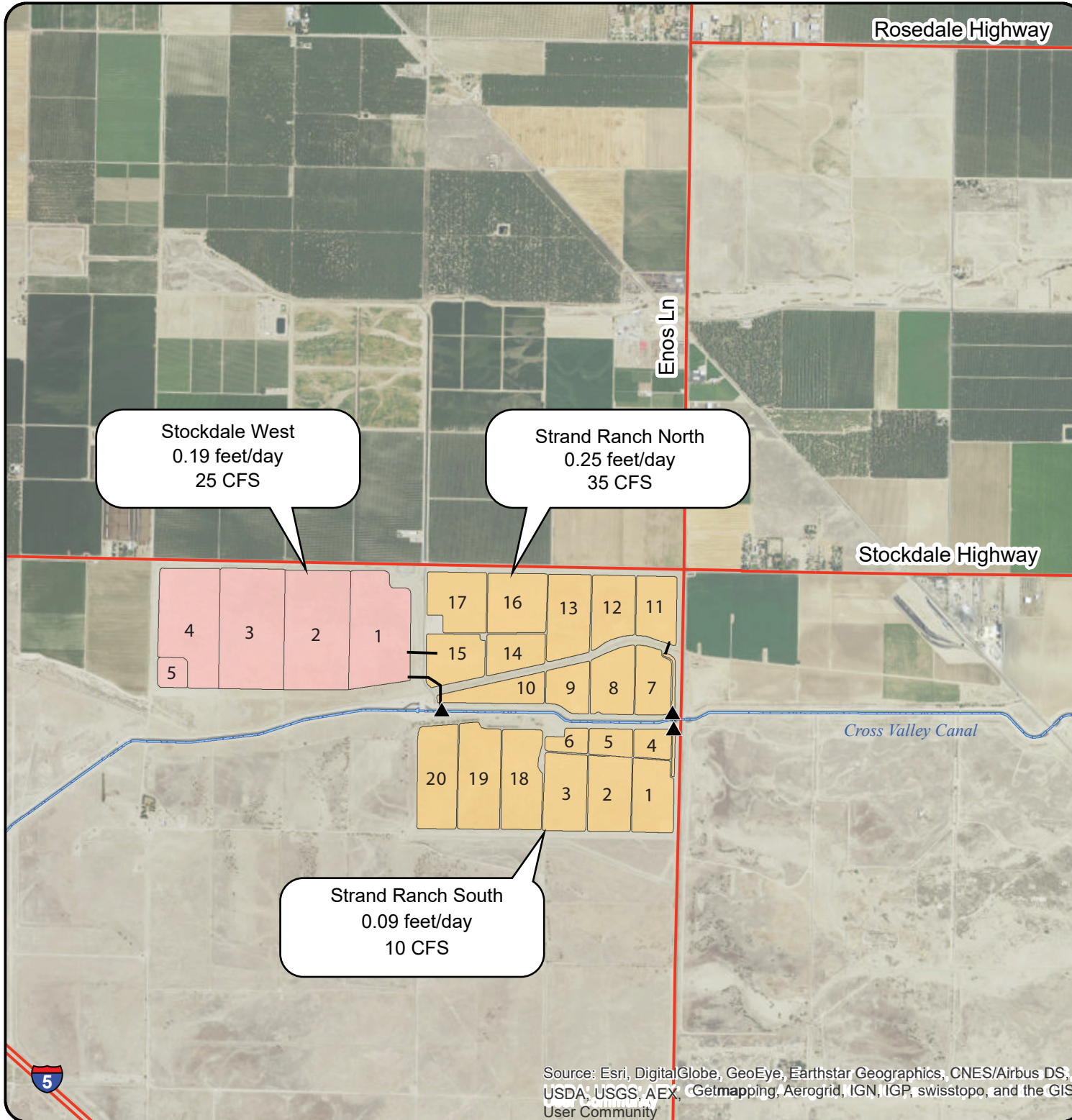


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping AeroGrid, IGN, IGP, swisstopo, and the GIS User Community

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Location Map: IRWD Water Banking Projects Recharge Rates

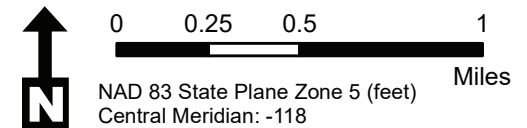


MAP FEATURES

- ▲ Turnouts
- Stockdale West
- Strand Ranch

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

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



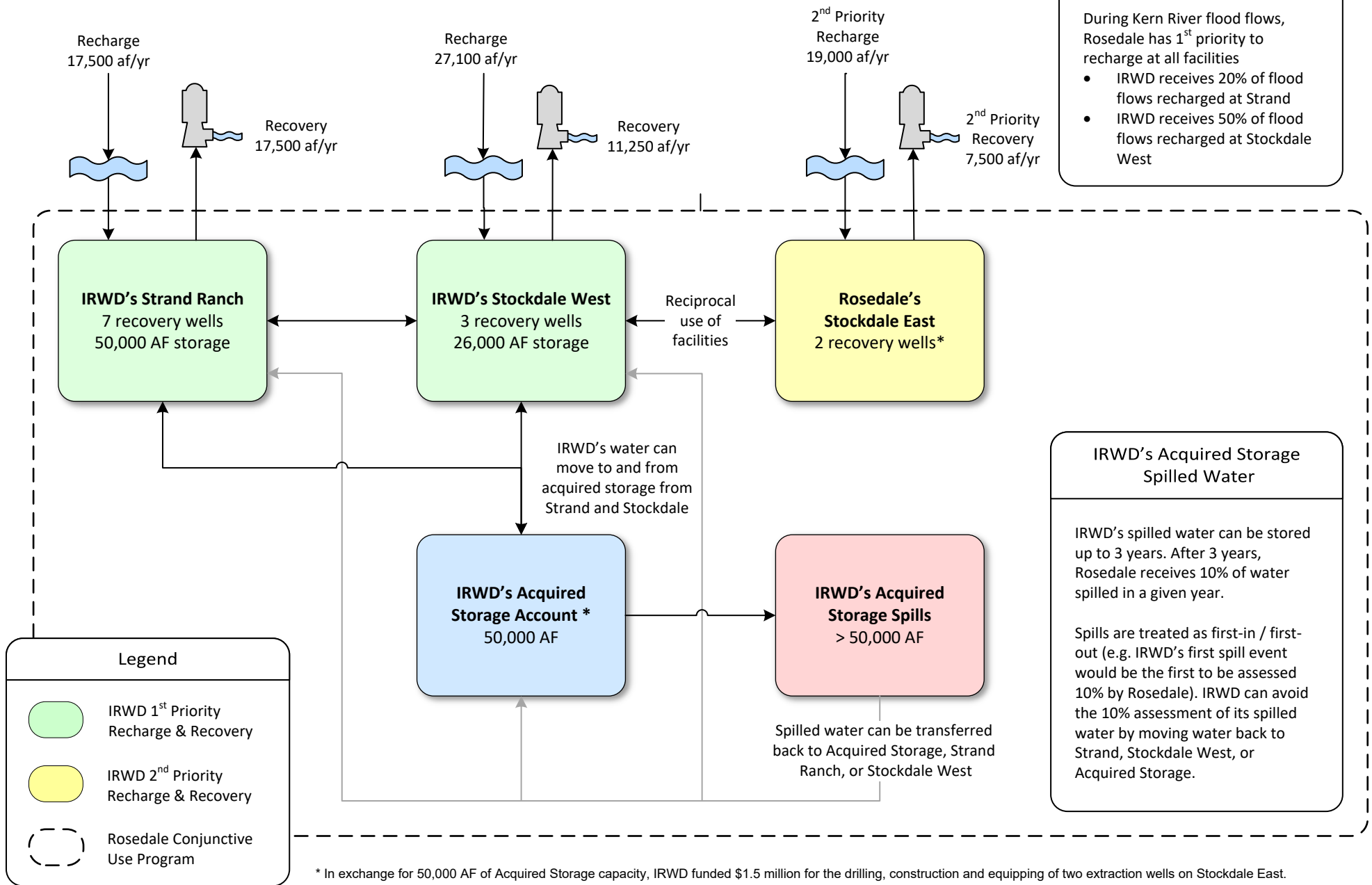
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Exhibit "J"

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)

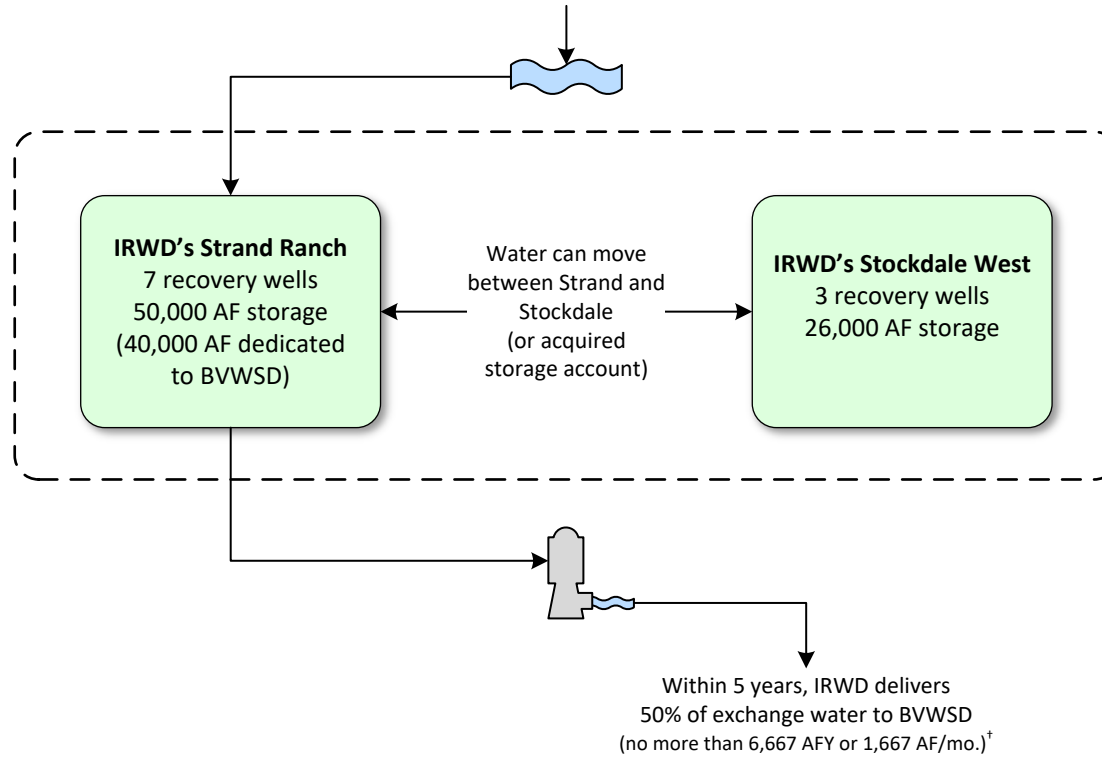




* In exchange for 50,000 AF of Acquired Storage capacity, IRWD funded \$1.5 million for the drilling, construction and equipping of two extraction wells on Stockdale East.

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

BVWSD delivers non-SWP water to Strand Ranch
 (IRWD receives 50%)
 (Up to 17,500 AFY or 4,375 AF/mo.)



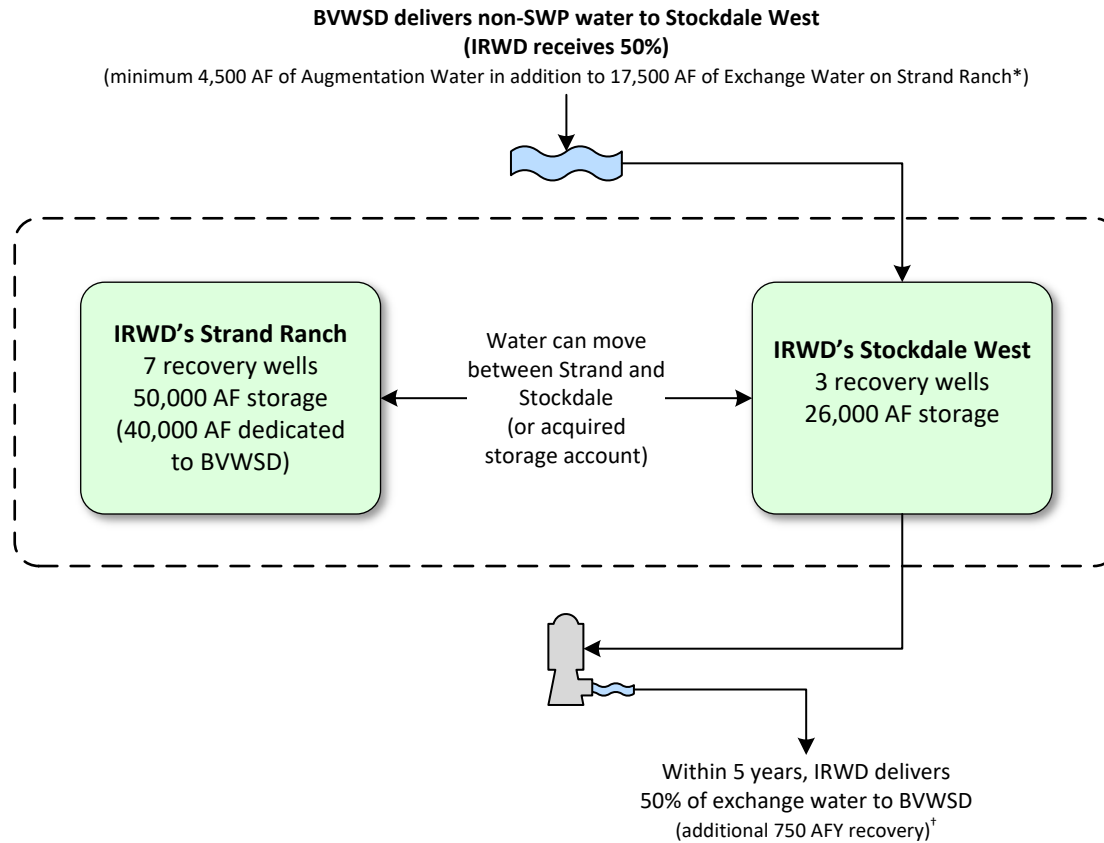
Legend	
	IRWD 1 st Priority Recharge & Recovery
	Rosedale Conjunctive Use Program & Coordinated Operation



†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

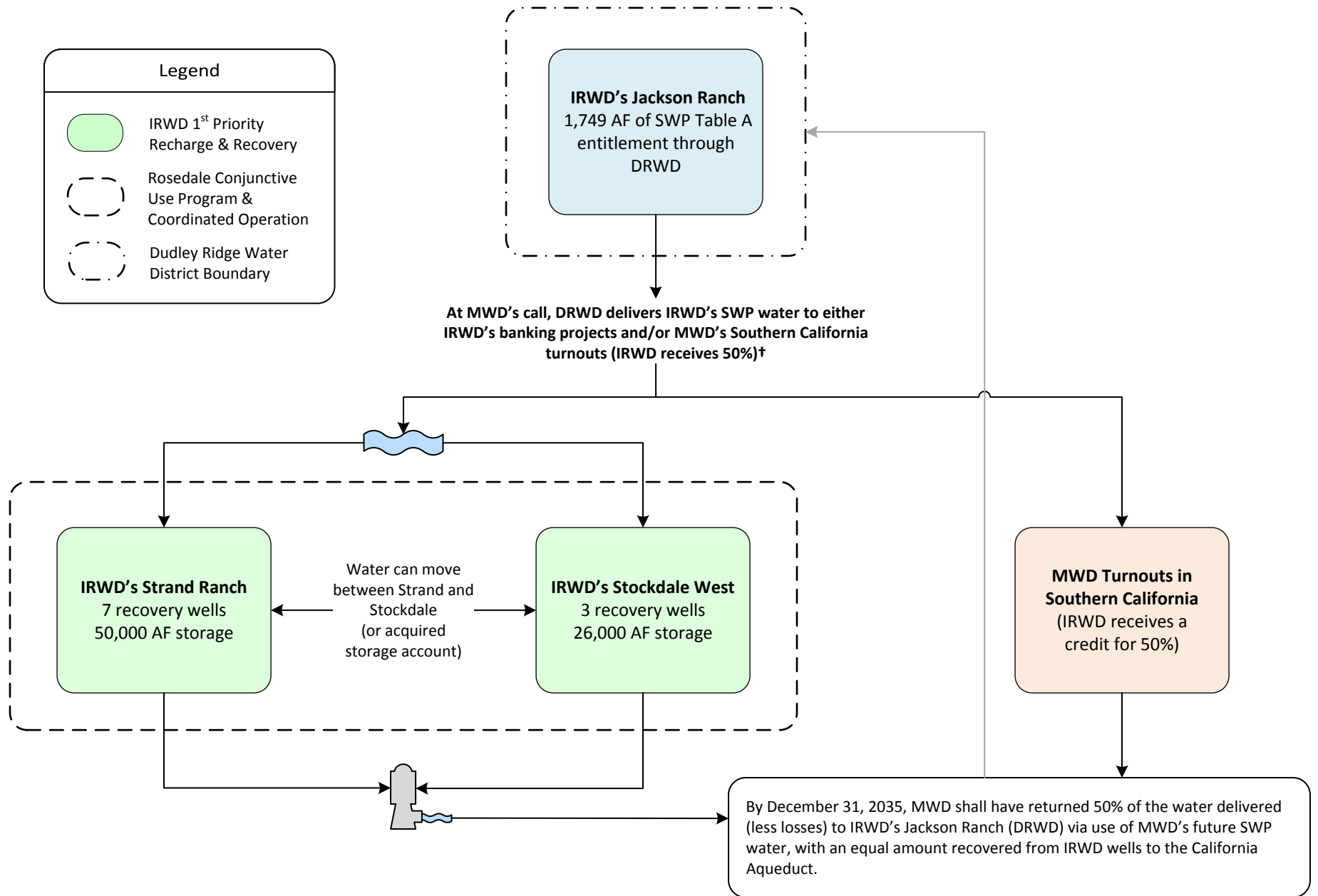
[†]IRWD shall remit one-half of the exchanged supply less one-half of reasonable losses back to BV no later than December 31st of the 4th year following the associated recharge event. BV pays for recovery of its share of Augmentation Water. Water to be remitted back to BV may remain in storage at Strand 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



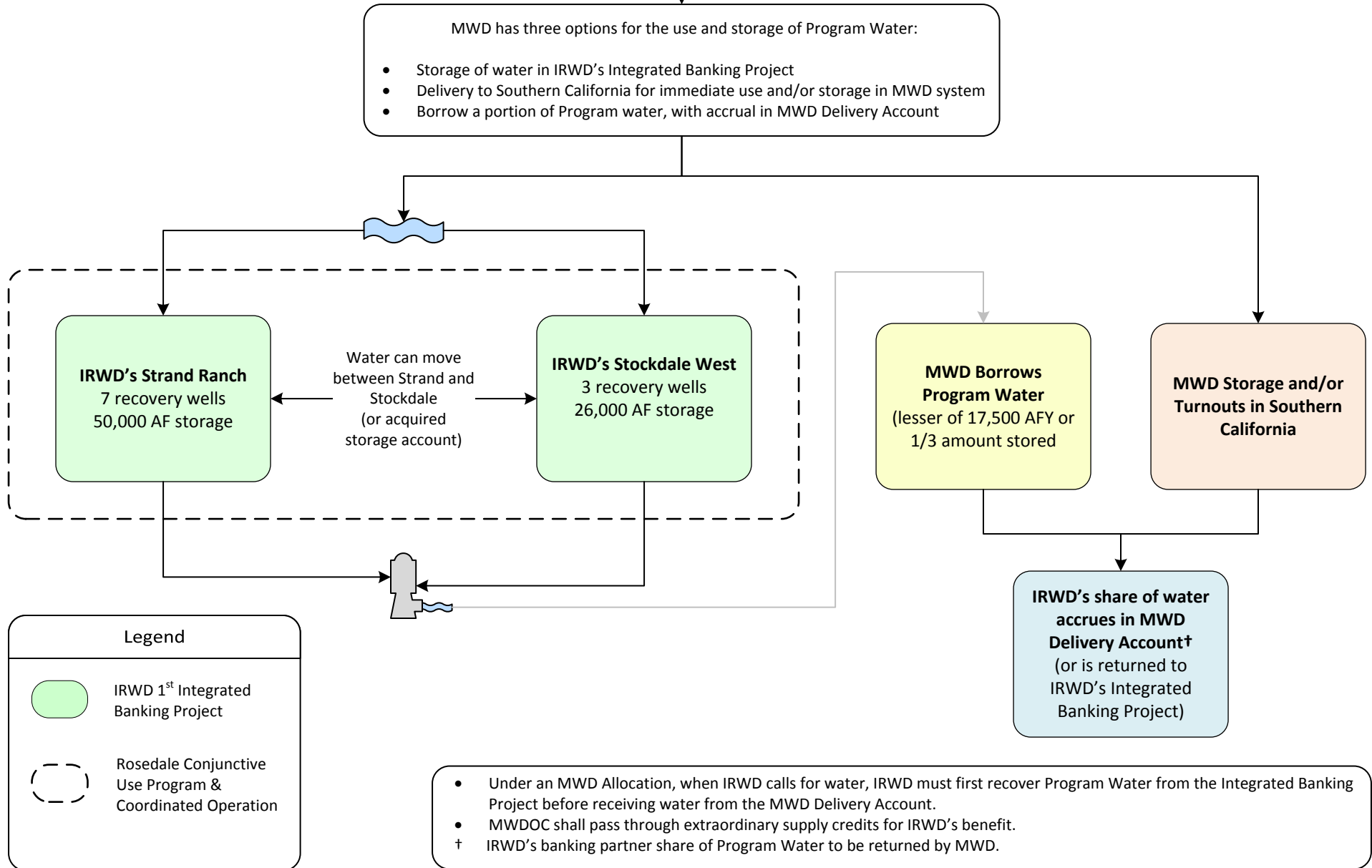
†Consistent with IRWD-MWD coordinated operating agreement.

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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

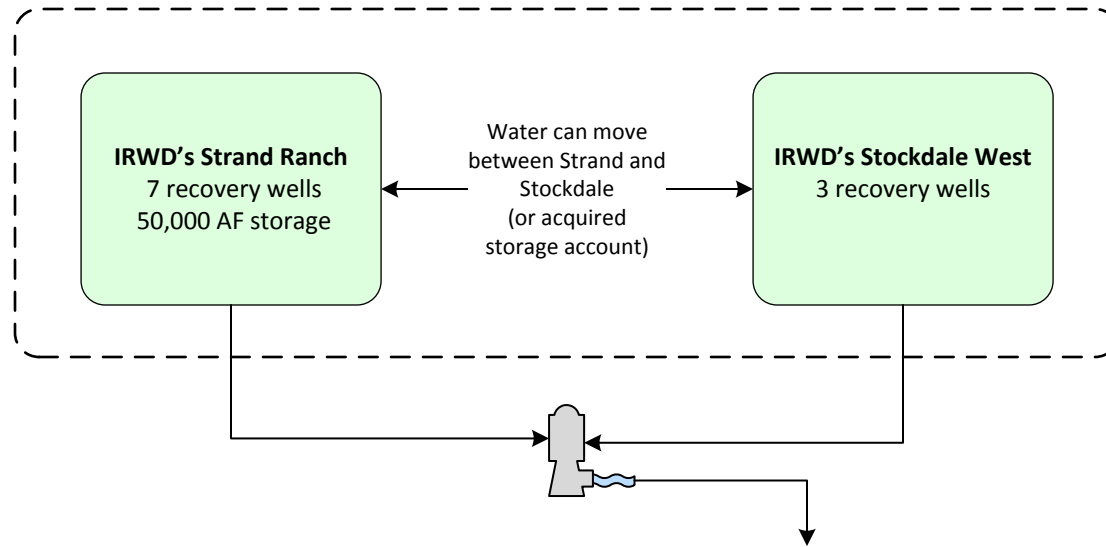
With MWD's consent, IRWD secures SWP water (Program Water) through exchanges with IRWD Banking Partners for use as extraordinary supply under MWD Water Supply Allocation Plan



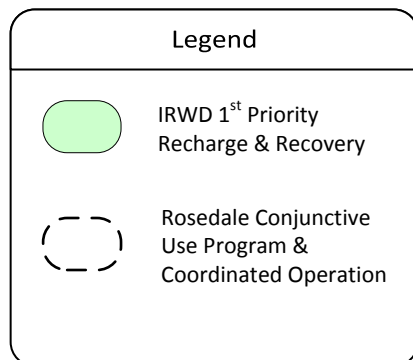
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Exhibit "N"

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



IRWD recovers its share of non-SWP water from its Integrated Banking Projects for use as extraordinary supply under a declared MWD Water Supply Allocation. MWD will coordinate the conveyance and delivery of recovered water to be used within IRWD's Service Area. Delivery can also occur through an operational exchange.*



*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"

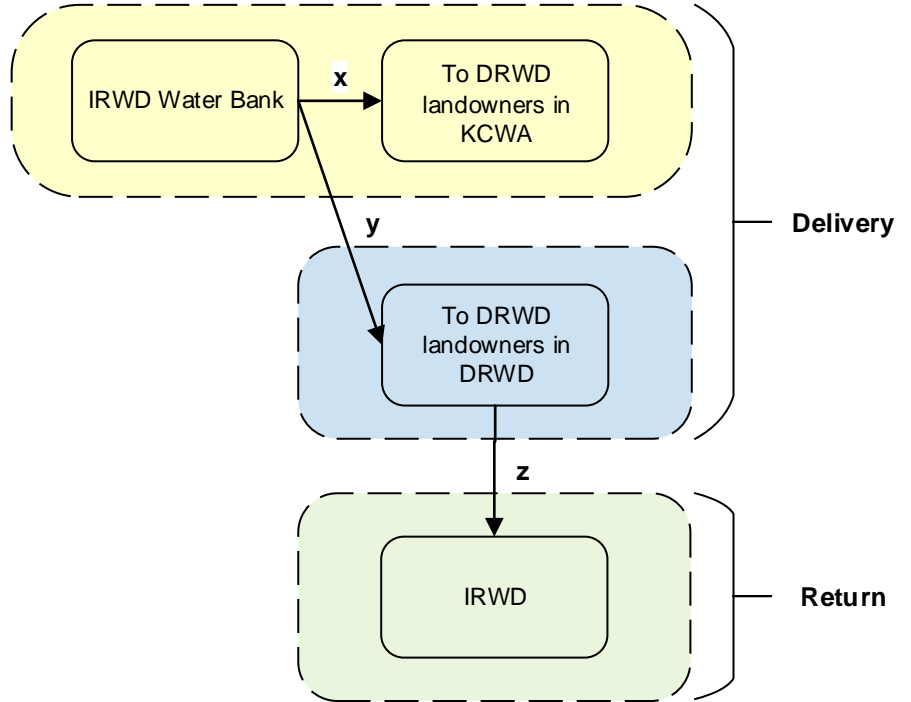
Dudley Ridge Water District Long Term 1-for-1 Water Exchange Program Effective 5/31/2017 through 11/4/2035

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

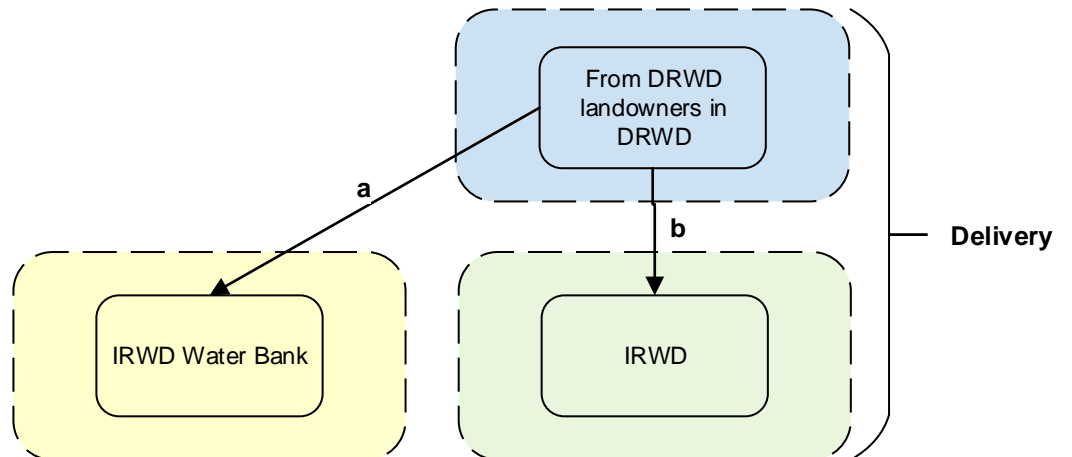
Per Section 4.1.3, z can be delivered to IRWD via in-ground transfer to IRWD, SWP delivery to IRWD banking facilities, or SWP delivery to MWDSC



Scenario B

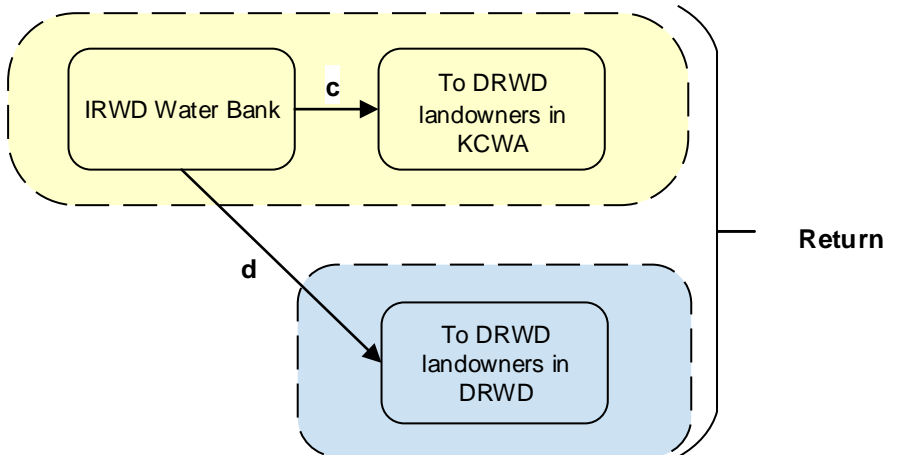
(Per Sections 2, 3, and 4.1.2)

$a + b = c + d$
 (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

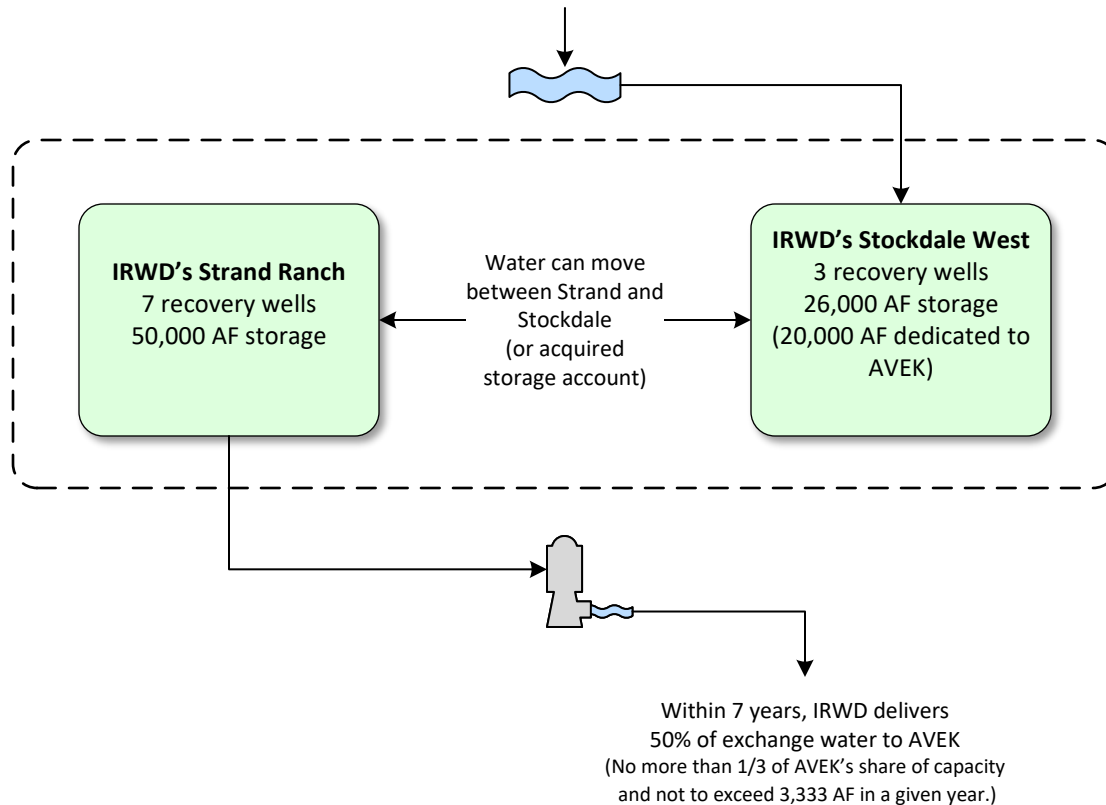
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Exhibit "P"



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.)*



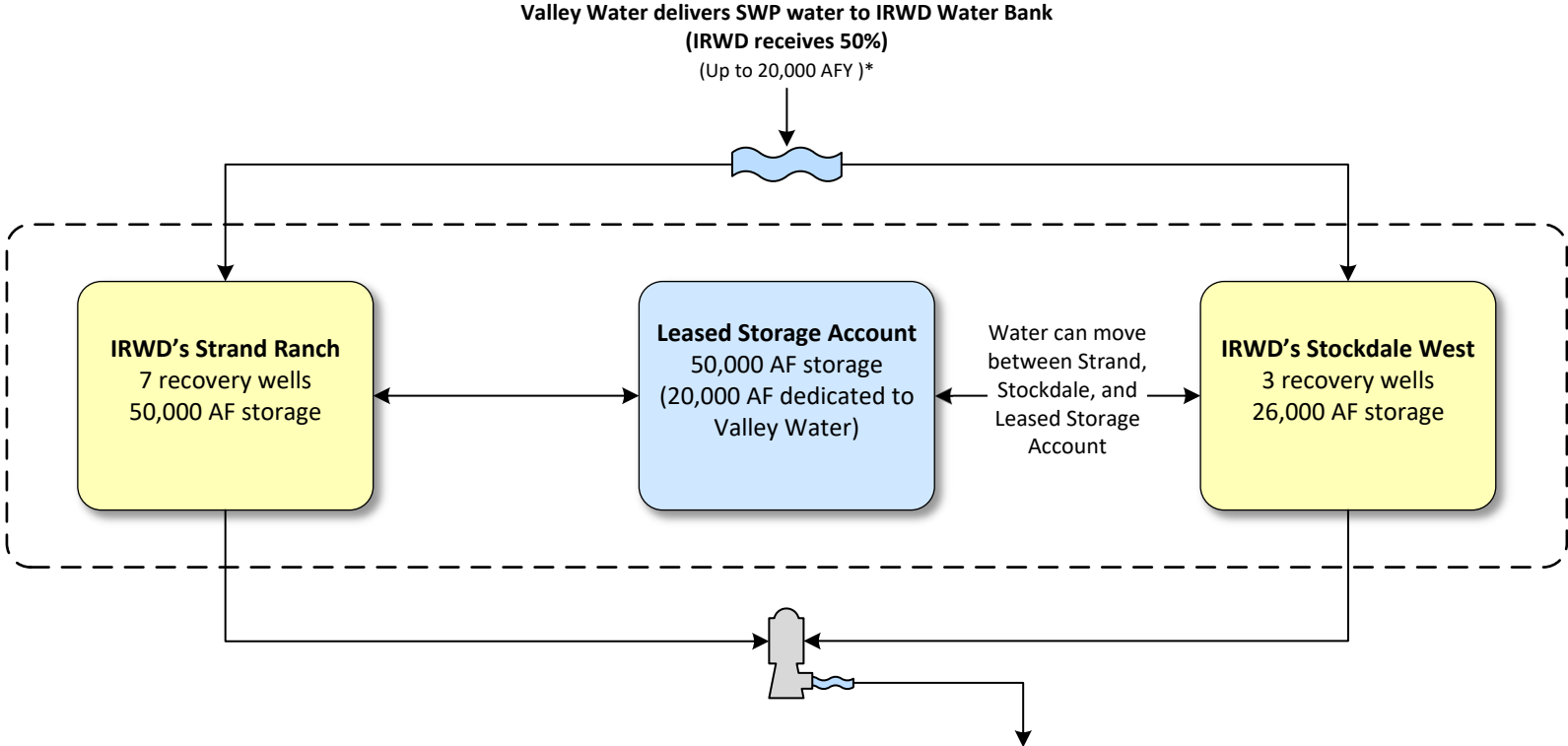
Legend

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

*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



Within 7 years, IRWD delivers
 50% of exchange water to Valley Water
 (No more than 1/3 of Valley Water's share of capacity
 and not to exceed 3,333 AF in a given year.)

Legend	
	IRWD 2nd Priority Recharge & Recovery
	IRWD Leased Storage Account
	Rosedale Conjunctive Use Program & Coordinated Operation

*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 March 24, 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
AVEK	2011 Short Term	Table A	-	\$220	\$130	\$ 913	\$1,263
	2023 Short 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	0	\$630	\$130	\$ 913	\$1,673
	2018 Long Term	Table A	1,127				
Total			15,398				

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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Exhibit “S”

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
 March 24, 2025

Actual and Forecasted Amounts:

Month	IRWD Table A (AF)	DRWD 1:1 (AF)	MWD ¹ (AF)	Central Coast (AF)	Homer (AF)	Valley Water (AF)	Total (AF)	Status	Expected Recharge ² (AF)	Expected Recharge Rate (CFS)
January	-	2,000	-	-	-	-	2,000	prelim	2,000	130
February	-	-	-	-	-	-	-	prelim	-	120
March	-	-	-	-	-	-	-	prelim	-	100
	-	2,000	-	-	-	-	2,000	-	-	
April	-	-	-	-	1,854	-	1,854		1,854	80
May	-	-	-	-	-	2,000	2,000		2,000	80
June	-	-	-	-	-	-	-		-	80
July	-	-	-	-	-	-	-		-	80
August	-	-	-	-	-	-	-		-	80
September	-	-	-	-	-	-	-		-	80
October	-	-	-	-	-	-	-		-	80
November	612	-	79	-	-	-	691		691	80
December	-	-	-	-	-	-	-		-	80
Total	612	2,000	79	0	1,854	2,000	6,545		6,545	
Recharge goal:	612	5,330	79	0	1,854	2,000	9,875			

¹ In 2021 and 2022, MWD took direct delivery of IRWD's DRWD SWP Table A water. MWD will return 50% of the water to the IRWD Water Bank this year and the remaining 50% will be delivered to Jackson Ranch.

² The expected recharge is based on the expected recharge rate and remaining recharge capacity.

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March 24, 2025
Prepared and
Submitted by: P. Weghorst
Approved by: Paul A. Cook



SUPPLY RELIABILITY PROGRAMS COMMITTEE

TERMS FOR JOINT USE AGREEMENT WITH ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT AND KERN WATER BANK AUTHORITY

SUMMARY:

The Kern Water Bank Authority has requested licenses to use IRWD's turnout from the Cross Valley Canal (CVC) to the south side of the Strand Ranch Integrated Banking Project and to construct and use a connection to the Strand Ranch to deliver water to the Kern Water Bank (KWB). This connection would eliminate hydraulic problems associated with Kern Water Bank Authority's (KWBA) continued use of siphons in the CVC. In exchange for these licenses, the KWBA would provide IRWD and Rosedale with a license to cross KWBA property with a pipeline. Staff and IRWD special counsel have worked with Rosedale and the KWBA to prepare draft terms for an Agreement and Grant of Licenses by and Between IRWD, Rosedale, and KWBA for Construction and Joint Use of Facilities (Joint Use Agreement) that would facilitate the reciprocal licenses. Staff recommends that the Board authorize the General Manager to execute a Joint Use Agreement based on the terms provided as Exhibit "A".

BACKGROUND:

The KWBA has historically used siphons in the CVC to divert water from the CVC through the slough area on the Strand Ranch to its adjacent recharge area. These siphons are referred to as the "Strand Siphons". The operation of the Strand Siphons can hydraulically interfere with Rosedale's diversion of water from the CVC to the Rosedale Intake Canal located east of CVC Pumping Plant 2. The Strand Siphons, canal, and Pumping Plant 2 are all shown in Figure 1 of the Joint Use Agreement draft term sheet (see Exhibit "A").

To alleviate the hydraulic problems, the KWBA approached IRWD and Rosedale staff with a request for licenses that would allow KWBA to use the south CVC turnout to the Strand Ranch (shown as South Strand Turnout in Figure 1) and to construct and use a diversion from the southeasternmost recharge basin on the Strand Ranch to KWB recharge areas. The proposed diversion location is shown in Figure 1 as the "KWB Strand Ranch Connection". KWBA's diversion would occur on a third priority basis behind IRWD's and Rosedale's uses of the Strand Ranch recharge facilities.

License for Rosedale Return Pipeline:

In exchange for granting the KWBA's request for the licenses described above, the KWBA has offered to provide IRWD and Rosedale a license to cross land owned by KWBA where Rosedale currently owns and operates the Rosedale Return Pipeline as depicted on Figure 1. This pipeline is used to return water to the CVC from groundwater wells owned by IRWD on the Stockdale West Property and by Rosedale further north in its service area. IRWD owns 27 cfs in first

priority capacity in the Rosedale Return Pipeline. At the time the pipeline was constructed, KWBA was unaware that it owned a parcel of land along the pipeline alignment.

Terms for Joint Use Agreement:

To facilitate the licenses described above, staff and IRWD special legal counsel from Kronick Moskowitz have worked with Rosedale and the KWBA in the development of the draft terms, provided in Exhibit "A", for a Joint Use Agreement that would provide for:

1. IRWD's and Rosedale's continued use and maintenance of the Rosedale Return Pipeline that crosses KWBA property from IRWD's Stockdale West property to the CVC;
2. KWBA's third priority use of available capacity in the south CVC turnout to the Strand Ranch to deliver water to the KWB;
3. KWBA's construction and use of the proposed KWB Strand Ranch Connection to be owned by IRWD and operated by Rosedale; and
4. KWBA's removal of the existing Strand Siphons from the CVC.

At the meeting, staff will present an overview of the draft terms for the Joint Use Agreement. Staff recommends that the Board authorize the General Manager to execute a Joint Use Agreement based on the terms presented.

FISCAL IMPACTS:

The costs of designing and constructing the KWB Strand Ranch Connection facilities as well as removing the Strand Siphons and any habitat or CVC restoration work will be borne entirely by the KWBA. The KWBA shall pay actual operation, maintenance, replacement and refurbishment costs, associated with their proportionate use of IRWD and Rosedale facilities including the KWB Strand Ranch Connection and the south CVC turnout to the Strand Ranch.

ENVIRONMENTAL COMPLIANCE:

The KWBA at its own costs shall be the lead agency in the preparation of any required environmental compliance documentation and for securing any permits needed for the construction and use of the KWB Strand Ranch Connection as well as the KWBA's use of the south CVC turnout to the Strand Ranch.

RECOMMENDATION:

That the Board authorize the General Manager to execute an Agreement and Grant of Licenses by and Between Irvine Ranch Water District, Rosedale-Rio Bravo Water Storage District, and Kern Water Bank Authority for Construction and Joint Use of Facilities based on the terms presented at the meeting, subject to non-substantive changes approved by special legal counsel.

Supply Reliability Programs Committee: Terms for Joint Use Agreement with Rosedale-Rio
Bravo Water Storage District and Kern Water Bank Authority

March 24, 2025

Page 3

LIST OF EXHIBITS:

Exhibit "A" – Draft Terms for Agreement and Grant of Licenses by and Between IRWD,
Rosedale, and KWBA for Construction and Joint Use of Facilities

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EXHIBIT “A”

DRAFT – Terms for Agreement and Grant of Licenses By and Between
 Irvine Ranch Water District, Rosedale-Rio Bravo Water Storage District, and Kern Water Bank
 Authority for Construction and Joint Use of Facilities
 (“Joint Use Agreement”)

March 24, 2025

<p>Parties</p>	<p>Irvine Ranch Water District (“IRWD”), Rosedale-Rio Bravo Water Storage District (“Rosedale”), and Kern Water Bank Authority (“KWBA”)</p>
<p>Objectives</p>	<p>The Parties desire to enter into a Joint Use Agreement granting certain licenses and consenting to use of the facilities depicted on Figure 1 (<i>see Exhibit “A” to the write-up</i>) that would provide for:</p> <ol style="list-style-type: none"> 1. IRWD’s and Rosedale’s continued use of Rosedale’s Return Pipeline that crosses KWBA property from IRWD land known as “Stockdale West” to the Cross Valley Canal (“CVC”) for the delivery of Rosedale and IRWD water returned from their well facilities to the CVC; 2. KWBA’s third priority use of surplus available capacity in the South Strand Turnout to deliver water to the Kern Water Bank (“KWB”); 3. KWBA’s construction, pursuant to a separate Encroachment Permit(s), of a new turnout from the southeasternmost recharge basin on the Strand Ranch to the KWB (“KWB Strand Ranch Connection”); and 4. KWBA’s removal of the existing Strand Siphons, which cause hydraulic interference, from the CVC following operational verification of the new KWB Strand Ranch Connection turnout from the Strand Ranch to the KWB.
<p>Effective Date</p>	<p>The Effective Date of the Joint Use Agreement shall be the date of execution by the last Party.</p>
<p>Termination</p>	<p>The Joint Use Agreement will terminate on December 31, 2040. Any Party may terminate the agreement upon five (5) years prior written notice to the other Parties. The agreement may be extended by mutual written agreement of the Parties.</p> <p>The licenses granted in The Joint Use Agreement would be irrevocable for the period of time this Agreement is in effect.</p>
<p>South Strand Turnout</p>	<p>IRWD owns the property located in Section 2, Township 30 South, Range 25 East, M.D.M., sometimes referred to as “Strand Ranch”, on which is located a turnout from the CVC to the south side of the Strand Ranch which at times has available capacity that can be used to deliver water to the Kern Water Bank, referred to as the “South Strand Turnout”.</p>

<p>Strand Siphons</p>	<p>The KWBA owns siphons on the CVC in Section 2, Township 30 South, Range 25 East, M.D.M., referred to as the "Strand Siphons", which are used by the KWBA to divert water from the CVC to its lands adjacent to the IRWD Strand Ranch.</p>
<p>Return Pipeline</p>	<p>KWBA owns property in Section 3, Township 30 South, Range 25 East, M.D.M, near the CVC Pumping Plant No. 2, which property is crossed by a pipeline owned by Rosedale that is used by Rosedale and IRWD to deliver well water to the CVC, referred to as the "Return Pipeline"</p>
<p>Return Pipeline License</p>	<p>The KWBA will grant Rosedale and IRWD a non-assignable license to access, use, repair, and maintain the Return Pipeline from the Stockdale West to the CVC to be used for the purpose of delivery of water to the CVC, on a first priority basis, up to and including the entire capacity of the Return Pipeline.</p>
<p>South Strand Turnout License</p>	<p>IRWD and Rosedale will grant the KWBA a non-assignable license for the third priority use, behind IRWD’s and Rosedale’s priority uses, of the existing South Strand Turnout from the CVC to be used for the purpose of conveying water to and across the southeasternmost Strand Ranch recharge basin to the KWBA recharge facilities via the KWB Strand Ranch Connection.</p> <p>Such third priority use shall be limited if shallow groundwater conditions prevent or reduce the delivery of water to the southeasternmost Strand Ranch recharge basin pursuant to the Cross Valley Canal / Strand Ranch Integrated Banking Project Operating Guidelines During Shallow Groundwater Conditions agreement dated October 8, 2012, or if the need for maintenance of IRWD’s Strand Ranch facilities prohibits such use.</p>
<p>Recharge Basin Water Levels</p>	<p>During times when IRWD and Rosedale are using the southeasternmost Strand Ranch recharge basin and the KWBA is delivering water to the KWBA recharge basins to and through the KWB Strand Ranch Connection, IRWD and/or Rosedale will make reasonable efforts to maintain water levels sufficient to maintain such deliveries, provided that KWBA use of the KWB Strand Ranch Connection for delivery of water to the KWBA recharge basins shall not impact IRWD and/or Rosedale’s use of facilities on the Strand Ranch or such other facilities as may be available to IRWD or Rosedale.</p>

<p>Water Losses</p>	<p>All water losses when either IRWD and/or Rosedale are using the southeasternmost Strand Ranch recharge basin shall be credited to IRWD and/or Rosedale as appropriate; during such times no losses shall be credited to the KWBA, regardless of whether or not the KWBA is using the facility.</p> <p>All losses during the delivery of water to the KWB through the KWB Strand Ranch Connection when Rosedale and/or IRWD are not using the Strand Ranch facilities for recharging water shall be credited to KWBA accounts.</p>
<p>KWB Strand Ranch Connection License</p>	<p>IRWD and Rosedale will grant a non-assignable license for first priority use of a KWB Strand Ranch Connection. The KWB Strand Ranch Connection would be constructed under a separate Encroachment Permit(s) and would be used for the purpose of delivering water to the KWB from the CVC.</p> <p>The KWB Strand Ranch Connection shall be owned by IRWD. The costs of designing and constructing the KWB Strand Ranch Connection facilities shall be borne entirely by the KWBA.</p>
<p>Removal of Strand Siphons</p>	<p>KWBA shall remove the existing Strand Siphons after delivery capabilities from the KWB Strand Ranch Connection using the South Strand Turnout have been proven to the satisfaction of KWBA during the next recharge event after installation. The costs for removing the Strand Siphons and any habitat or CVC restoration work shall be borne entirely by the KWBA.</p>
<p>Operation and Maintenance</p>	<p>Rosedale and IRWD shall operate and maintain the KWB Strand Ranch Connection and the South Strand Turnout.</p> <p>IRWD, Rosedale, and KWBA each shall pay actual Operation, Maintenance, Replacement and Refurbishment costs, associated with their proportionate use of IRWD and Rosedale facilities including the KWB Strand Ranch Connection and the South Strand Turnout. Such invoices shall be prepared and submitted annually, as appropriate, and shall be paid by KWBA within 45 days of receipt of an invoice for such costs.</p>
<p>Environmental Compliance</p>	<p>The KWBA at its own costs shall be the lead agency in the preparation of any environmental compliance document and for securing any permits needed for the construction and use of the KWB Strand Ranch Connection as well as the KWBA's use of the South Strand Turnout.</p>

CVC Rights	Each Party shall utilize its own individual CVC rights, or contracted rights available to each individual Party, to convey its water supplies to the facilities described in the Joint Use Agreement. Each Party is responsible for all costs associated with utilizing its contractual CVC rights, including, but not limited to, CVC power and conveyance fees.
Accessibility	The Parties shall agree that roadways, rights-of-way and/or easements under their respective ownerships may be utilized by the other Parties as necessary for access purposes so that each Party can operate, construct, build, use and maintain its facilities.
Cooperation	The Parties shall cooperate with each other in carrying out the terms of this Joint Use Agreement and execute and deliver any additional documents or other assurances and shall perform any further acts as may be reasonably necessary to carry out the intent of the Parties and terms of the agreement.

Figure 1



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