

AGENDA
IRVINE RANCH WATER DISTRICT
SUPPLY RELIABILITY PROGRAMS COMMITTEE
MONDAY, AUGUST 19, 2019

CALL TO ORDER 1:00 p.m., Committee Room, Second Floor, District Office
15600 Sand Canyon Avenue, Irvine, California

ATTENDANCE Committee Chair: Douglas Reinhart _____
Member: Mary Aileen Matheis _____

<u>ALSO PRESENT</u>	Paul Cook	_____	Paul Weghorst	_____
	Kellie Welch	_____	Fiona Sanchez	_____
	Rob Jacobson	_____	Christine Compton	_____
	Ray Bennett	_____	Jo Ann Corey	_____
	Dane Johnson	_____	Natalie Palacio	_____
	_____	_____	_____	_____

NOTICE

If you wish to address the Committee on any item, please file your name with the Committee. Forms are provided at the Committee meeting. Remarks are limited to three minutes per speaker on each subject.

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. | <u>WATER BANKING PROJECT FACILITIES, CAPACITIES, OPERATIONS, AND PROGRAMS – JOHNSON / WELCH / SANCHEZ / WEGHORST</u>

Recommendation: Receive and file. |
| 6. | <u>UPDATE ON SHARED RELIABILITY AND 60-DAY EMERGENCY SUPPLY PILOT PROGRAMS – WEGHORST</u>

Recommendation: Receive and file. |

ACTION

7. ENVIRONMENTAL COMPLIANCE FOR THE KERN FAN GROUNDWATER STORAGE PROJECT – COREY / WELCH / SANCHEZ / WEGHORST

Recommendation: That the Board authorize the General Manager to execute a Professional Services Agreement with Environmental Sciences Associates in the amount of \$359,595 to prepare a Supplemental Environmental Impact Report for the Kern Fan Groundwater Storage Project.

8. AMENDMENT NO. 1 TO LANDOWNER AGREEMENT FOR SUSTAINABLE GROUNDWATER MANAGEMENT ACT COMPLIANCE – BENNETT / WELCH / SANCHEZ / WEGHORST

Recommendation: That the Committee discuss the content of Amendment No. 1 to the Landowner Agreement for Sustainable Groundwater Management Act compliance and the information provided at the meeting.

9. PROPOSED IRWD WATER RESILIENCE PORTFOLIO POLICY PRINCIPLES – COMPTON / SANCHEZ / WEGHORST

Recommendation: That the Committee discuss the content of the proposed IRWD Water Resilience Portfolio Policy Principles, with the intent to bring a proposed “IRWD Water Resilience Portfolio Policy Principles” paper to the Board on August 26, 2019.

OTHER BUSINESS

10. Directors’ Comments

11. 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 at the entrance of the meeting room at the District Office. The Irvine Ranch Water District Committee Room is wheelchair accessible. If you require any special disability-related accommodations (e.g., access to an amplified sound system, etc.), please contact the District Secretary at (949) 453-5300 during business hours at least seventy-two (72) hours prior to the scheduled meeting. This agenda can be obtained in an alternative format upon written request to the District Secretary at least seventy-two (72) hours prior to the scheduled meeting.

August 19, 2019

Prepared by: D. Johnson / K. Welch

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. Staff will also provide an update on recharge operations, as well as efforts to secure additional water for recharge at IRWD's water banking projects.

BACKGROUND:

To facilitate the discussion with the Committee, staff has prepared reference materials in tabular, map, and schematic formats to describe IRWD's water banking facilities, capacities, operations, storage, and exchange programs. The 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. At the Committee meeting, staff will provide an update on current recharge activities, as well as efforts to secure additional water for recharge at IRWD's water banking projects.

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 attached 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 at the water banking projects, and Exhibit "C" provides after-loss estimates of water recharged at the projects. Both Exhibits "B" and "C" include a column that provides totals for each water type and storage location. Current updates to Exhibits "B" and "C" are indicated in red.

Exhibit "D" graphically depicts how storage of SWP and non-SWP water has changed in the Strand and Stockdale Integrated Banking Projects through time. The table provided as Exhibit "E" 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 provided as Exhibits "A", "B", "C" and "E", as well as the figure provided as Exhibit "D", staff has prepared maps that depict project wells and pipelines, recharge basins and Cross Valley Canal turnout locations, along with the most current recharge rates. These

maps are provided as Exhibits “F”, “G” and “H”, respectively. Exhibit “H” has been updated to reflect the most recent estimated infiltration rate as of June 18, 2019. The facilities shown on the maps are associated with the Strand Ranch, Stockdale West, Stockdale East and Rosedale-Rio Bravo Water Storage District Drought Relief Projects.

Program Agreement Diagrams:

Schematic diagrams have been prepared that depict the IRWD water banking and exchange programs with Rosedale-Rio Bravo Water Storage District, Buena Vista Water Storage District, Dudley Ridge Water District and Metropolitan Water District. These diagrams are provided as Exhibits “I”, “J”, “K”, “L” and “M”, as described in the List of Exhibits.

Delivery of Water to the Water Banks:

Buena Vista delivered Kern River water to the Strand Ranch and Stockdale West projects from April 11 through June 30, 2019. Approximately 12,500 acre-feet (AF) was delivered in total, of which IRWD retains one-half, which is consistent with the terms of the existing long-term exchange program agreement with Buena Vista.

Starting on July 10, 2019, IRWD began taking delivery of its 1,408 AF of 2019 SWP supplies associated with the Jackson Ranch in Dudley Ridge Water District. To help control weed growth over the summer, by keeping the basins as wet as possible, Rosedale is controlling the flow rate currently at approximately 10 cfs.

Other Recharge Opportunities:

IRWD has been pursuing additional opportunities to secure water for recharge. At the Committee meeting, staff will provide an update on efforts to secure water from:

- Antelope Valley-East Kern Water Agency;
- Central Coast Water Authority;
- San Luis Obispo County Flood Control and Water Conservation District;
- Dudley Ridge Water District; and
- Other sources.

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” – Historic Water Storage in Strand and Stockdale Projects
- Exhibit “E” – Dedicated Capacities of Current Water Banking Projects
- Exhibit “F” – Map of Water Banking Project Wells and Pipelines
- Exhibit “G” – Map of Water Banking Recharge Basins and Cross Valley Canal Turnout Facilities
- Exhibit “H” – Map of Water Banking Recharge Rates
- Exhibit “I” – Diagram of IRWD-Rosedale Water Banking and Exchange Program Agreements
- Exhibit “J” – Diagram of Long-Term Water Exchange Program with BVWSD and Diagram of One-Year Program to Augment Recharge Using Stockdale West Recharge Facilities with BVWSD
- Exhibit “K” – Diagram of Unbalanced Exchange Program Diagram with DRWD
- Exhibit “L” – Diagram of Coordinated Operating, Water Storage, Exchange and Delivery Agreement with Metropolitan Water District
- Exhibit “M” – Diagram of Template Wheeling Agreement with Metropolitan Water District

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Exhibit "A"

TABLE 1
Current and Anticipated Water Banking Project
Recharge, Storage and Recovery Capacities
 August 19, 2019

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	WELLS PROPOSED OR UNDER CONST.	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	ESTIMATED RECOVERY CAPACITY (APR. 2019 CONDITIONS) ²	RECOVERY CAPACITY AS PLANNED	RECOVERY CAPACITY CURRENT CONDITIONS
Strand Ranch	Yes	7	-	50,000	17,500	-	17,500	-	40.0	40.0	-	-
Stockdale West	Yes	3	-	26,000	27,100	-	11,250	-	15.0	15.0	-	-
Stockdale East	No	-	2	-	-	19,000	-	7,500	-	-	10.0	-
IRWD Acquired Storage Account ³	No	-	-	50,000	-	-	-	-	-	-	-	-
Drought Relief Project Wells ³	No	3	-	-	-	-	-	-	15.0	15.0	-	-
Kern Water Bank Storage Account ⁵	No	-	-	9,495	3,200	-	6,330	-	-	-	-	-
TOTALS		13	2	126,000	44,600	19,000	28,750	7,500	70.0	70.0	10.0	0.0
Partner Capacities ⁴				38,000	22,300	9,500	10,850	0	35.5	25.0	-	-
IRWD 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 Strand Ranch and Stockdale West wells currently idle.

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

⁴ One half of storage capacity at Stockdale West and Strand Ranch will be allocated for partners.

⁵ 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. Not included in storage capacity, recharge, and recovery totals to match IRWD's Water Banking Policy Position Paper.

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Exhibit "B"

TABLE 2
IRWD's Water Banking Storage, Recharge and Recovery Operations - BEFORE LOSSES
August 19, 2019

TRANSACTIONS	WATER BANKING ENTITY					TOTAL BY WATER TYPE AND STORAGE LOCATION
	IRWD		BUENA VISTA (BVWSD)	CENTRAL COAST (CCWA)	DUDLEY RIDGE WATER DISTRICT (DRWD) ³	
	SWP ¹	NON-SWP ²	NON-SWP	SWP	SWP	
BEGINNING WATER IN STORAGE 2018 (AF)						
Total Kern Water Bank	-	4,656	-	-	-	4,656
Total MWD System ⁴	8,349	-	-	-	1,174	10,047
Total Kern County	3,257	17,704	6,869	289	2,388	30,507
TOTAL STORED WATER (1/1/2018)	11,606	22,360	6,869	289	3,562	44,686
MWD Water to Jackson Ranch ⁵	-	-	-	-	(295)	(295)
(RECOVERY) AND RECHARGE IN 2018 (AF)						
Kern Water Bank Deliveries	-	-	-	-	-	-
2018 SWP Allocation (35%) ³	310	-	-	-	310	620
High Flow Kern River	-	-	(1,667)	-	-	(1,667)
TOTAL 2018 TRANSACTIONS	310	-	(1,667)	-	310	(1,047)
Total Kern Water Bank	-	4,656	-	-	-	4,656
Total MWD System	8,349	-	-	-	879	9,228
Total Kern County	3,567	17,704	5,202	289	2,698	29,460
TOTAL STORED WATER (1/1/2019)	11,916	22,360	5,202	289	3,577	43,344
(RECOVERY) AND RECHARGE IN 2019 (AF)						
MWD Water to Jackson Ranch (estimated)	-	-	-	-	(295)	(295)
Kern Water Bank Deliveries ⁶	-	97	-	-	-	97
2019 SWP Allocation (75%) ³	656	-	-	-	656	1,311
Kern River water (estimated)	-	6,250	6,250	-	-	12,500
TOTAL ESTIMATED 2019 TRANSACTIONS	656	6,347	6,250	-	361	13,613
ESTIMATED WATER IN STORAGE 2019 (AF)						
Total Kern Water Bank	-	4,753	-	-	-	4,753
Total MWD System	8,349	-	-	-	879	9,228
Total Kern County	4,223	24,051	11,452	289	3,059	43,073
TOTAL ESTIMATED STORED WATER TO DATE	12,572	28,804	11,452	289	3,938	57,054

NOTES:

-MWD = Metropolitan Water District of Southern California.

¹ IRWD's SWP includes 437 AF from CVWD that stays in Kern County.

² IRWD's Non-SWP total includes 3,158 AF 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. IRWD's 2013-2016 SWP allocation amounts are stored in the MWD system. IRWD's 2017 through 2019 SWP allocation water is stored in Kern County.

⁴ Beginning balance of water stored in MWD system includes: 4,494 AF from 2014 Exchange, 3,206 AF of 2014 borrowed SWP, 649 AF of IRWD's 2013-2016 SWP allocations through DRWD.

⁵Water returned to DRWD by MWD for use on IRWD's Jackson Ranch.

⁶A portion of IRWD's 2019 SWP deliveries from DRWD include 97 AF of Article 21 water, which was delivered to the Kern Water Bank.

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Exhibit "C"

TABLE 3
IRWD's Water Banking Storage, Recharge and Recovery Operations - AFTER LOSSES
 August 19, 2019

TRANSACTIONS	WATER BANKING ENTITY					TOTAL BY WATER TYPE AND STORAGE LOCATION
	IRWD		BUENA VISTA (BVWSD)	CENTRAL COAST (CCWA)	DUDLEY RIDGE WATER DISTRICT (DRWD) ³	
	SWP ¹	NON-SWP ²	NON-SWP	SWP	SWP	
BEGINNING WATER IN STORAGE 2018 (AF)						
Total Kern Water Bank	-	4,233	-	-	-	4,233
Total MWD System ⁴	7,393	-	-	-	1,174	9,091
Total Kern County	2,782	15,564	6,199	246	2,131	26,921
TOTAL STORED WATER (1/1/2018)	10,175	19,797	6,199	246	3,305	39,721
MWD Water to Jackson Ranch ⁵	-	-	-	-	(295)	(295)
(RECOVERY) AND RECHARGE IN 2018 (AF)						
Kern Water Bank Deliveries	-	-	-	-	-	-
2018 SWP Allocation (35%) ³	264	-	-	-	264	528
High Flow Kern River	-	-	(1,667)	-	-	(1,667)
TOTAL 2018 TRANSACTIONS	264	-	(1,667)	-	264	(1,139)
Total Kern Water Bank	-	4,233	-	-	-	4,233
Total MWD System	7,393	-	-	-	879	8,272
Total Kern County	3,046	15,564	(1,667)	246	2,395	19,584
TOTAL STORED WATER (1/1/2019)	10,439	19,797	4,532	246	3,274	38,288
(RECOVERY) AND RECHARGE IN 2019 (AF)						
MWD Water to Jackson Ranch (estimated)	-	-	-	-	(295)	(295)
Kern Water Bank Deliveries ⁷	-	87	-	-	-	87
2019 SWP Allocation (75%) ³	557	-	-	-	557	1,114
Kern River water (estimated)	-	5,313	5,625	-	-	10,938
TOTAL ESTIMATED 2019 TRANSACTIONS ⁶	557	5,400	5,625	-	262	11,844
ESTIMATED WATER IN STORAGE 2019 (AF)						
Total Kern Water Bank	-	4,320	-	-	-	4,320
Total MWD System	7,393	-	-	-	879	8,272
Total Kern County	3,603	20,877	10,157	246	2,657	37,539
TOTAL ESTIMATED STORED WATER TO DATE	10,996	25,197	10,157	246	3,536	50,132

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 DRWD and BVWSD in Kern County is adjusted 10% (6% for surface loss and 4% for reserve loss); KWB losses are 10%; no losses for water directly delivered to MWD system.

-MWD = Metropolitan Water District of Southern California.

¹ IRWD's SWP includes 389 AF from CVWD that stays in Kern County.

² IRWD's Non-SWP total includes 2,842 AF 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. IRWD's 2013-2016 SWP allocation amounts are stored in the MWD system.

IRWD's 2017 through 2019 SWP allocation water is stored in Kern County.

⁴ Beginning balance of water stored in MWD system includes (net of CVC losses): 3,920 AF of 2014 Exchange, 2,824 AF of 2014 borrowed SWP, 649 AF of IRWD's 2013-2016 SWP allocations through DRWD.

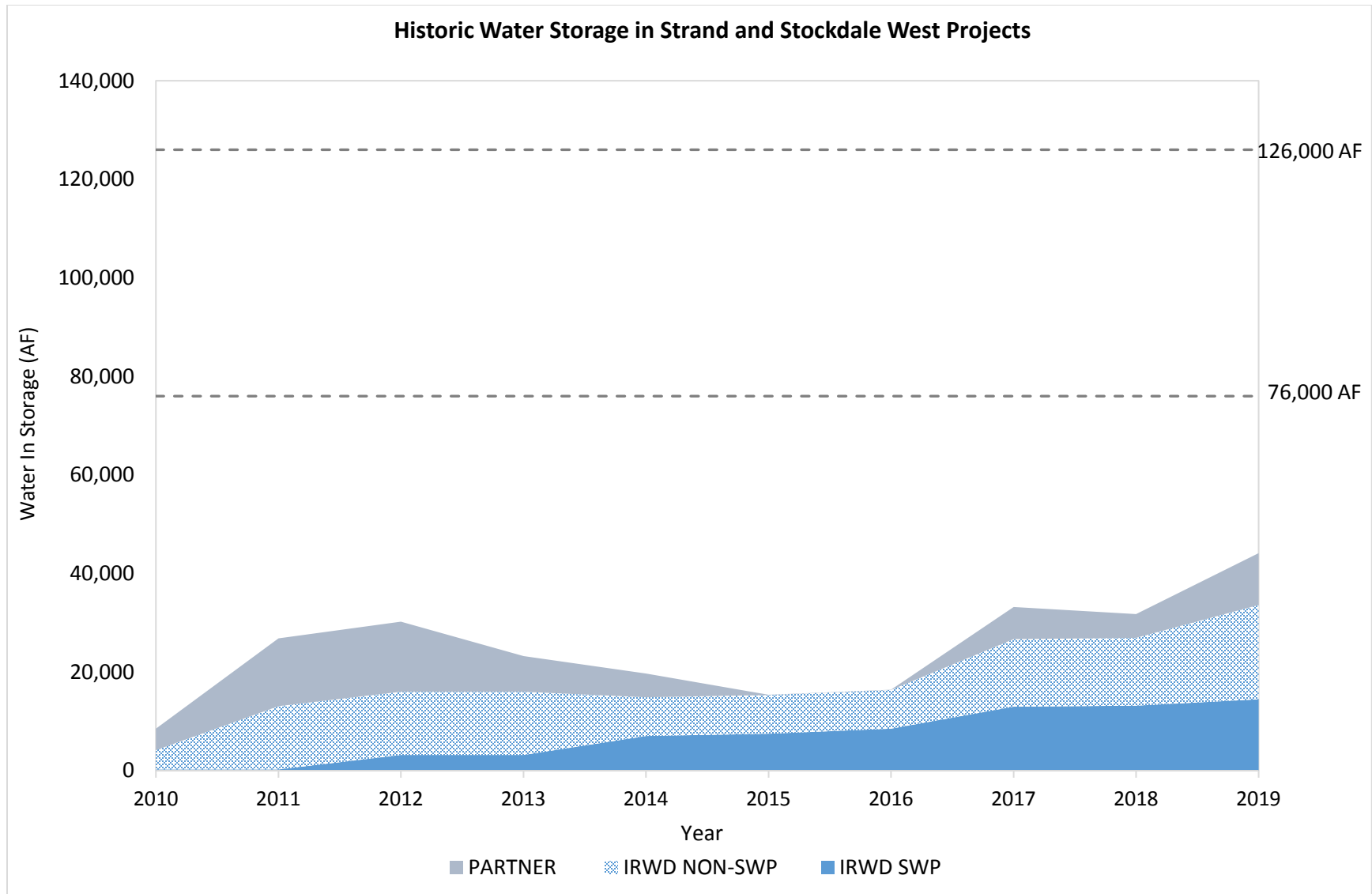
⁵ Water returned to DRWD by MWD for use on IRWD's Jackson Ranch.

⁶ 2019 transactions may be adjusted for conveyance losses in CVC.

⁷ A portion of IRWD's 2019 SWP deliveries from DRWD include 97 AF of Article 21 water, which was delivered to the Kern Water Bank.

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Exhibit “D”



*After losses

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Exhibit "E"

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	-	-	-
DRWD	10,000	-	-	-
AVEK	-	20,000	-	-
CVWD	-	5,000	-	-
Total Dedicated	50,000	25,000	-	-
Total Remaining	-	1,000	50,000	9,495

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	-	-	-
DRWD	-	-	-	-
AVEK	-	20,000	-	-
CVWD	-	5,000	-	-
Total Dedicated	17,500	25,000	-	-
Total Remaining	-	2,100	-	3,200

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	-	6,330
BVWSD	6,667	-	-	-
DRWD	-	-	-	-
AVEK	-	3,333	-	-
CVWD	-	833	-	-
IRWD	10,833	7,084	-	6,330
Total Dedicated	17,500	11,250	-	6,330
Total Remaining	-	-	-	-

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Exhibit "F"



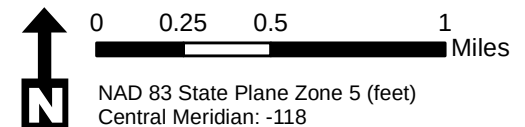
Irvine Ranch
WATER DISTRICT

Location Map: IRWD Water Banking Projects Wells and Return Pipelines

MAP FEATURES

- Existing Extraction Well
- Planned Extraction Well
- Well Under Construction
- Well Discharge Pipelines
- Stockdale East
- Stockdale West
- Strand Ranch

This figure shows the location of IRWD's water banking project sites as well as existing and proposed 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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Exhibit "G"

Rosedale Highway



Irvine Ranch
WATER DISTRICT

**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 as well as existing and anticipated pipelines and 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

Cross Valley Canal

Stockdale Highway

Enos Ln

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

G-1



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Miles

NAD 83 State Plane Zone 5 (feet)
Central Meridian: -118

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Exhibit "H"

Rosedale Highway



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 June 18, 2019.

Stockdale West
0.11 feet/day
15 CFS

Strand Ranch North
0.29 feet/day
40 CFS

Strand Ranch South
0.13 feet/day
15 CFS

Stockdale Highway

Cross Valley Canal

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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Miles

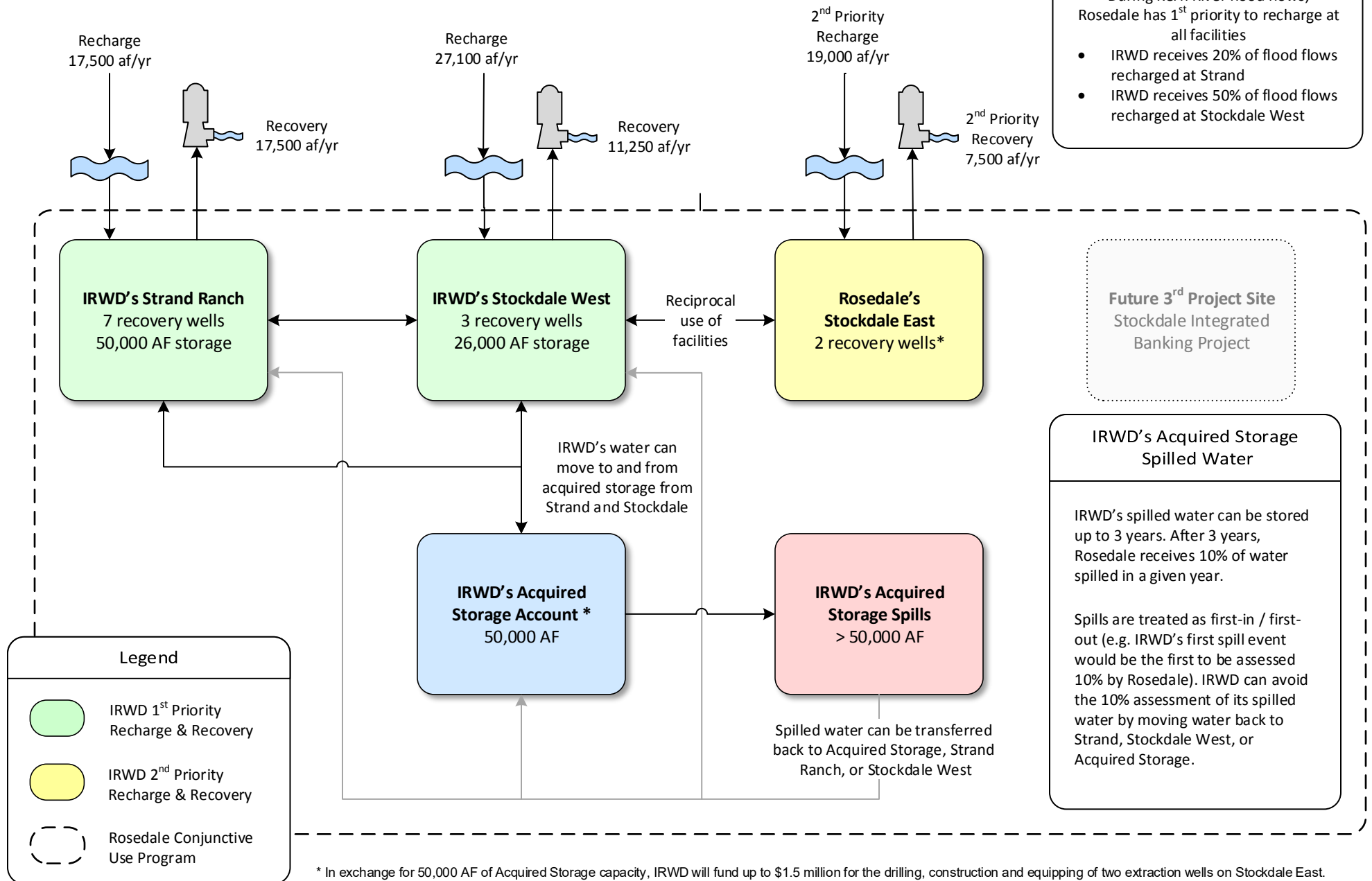
NAD 83 State Plane Zone 5 (feet)
Central Meridian: -118

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Exhibit "I"

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)

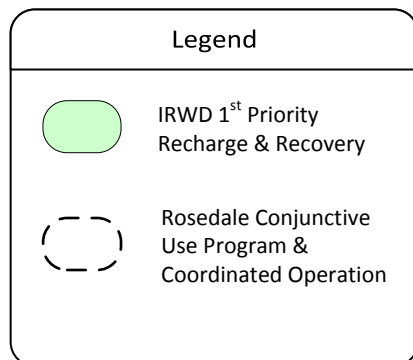
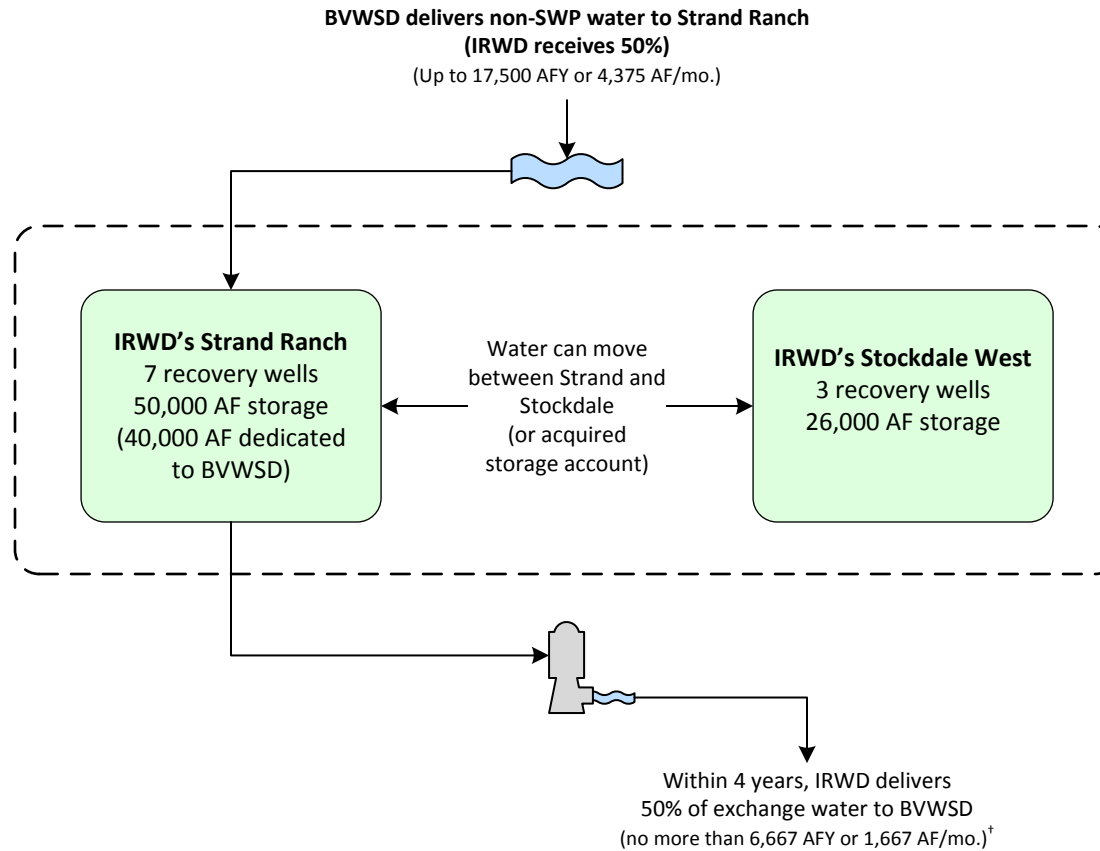


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Exhibit "J"

Buena Vista Water Storage District Long Term Water Exchange Program

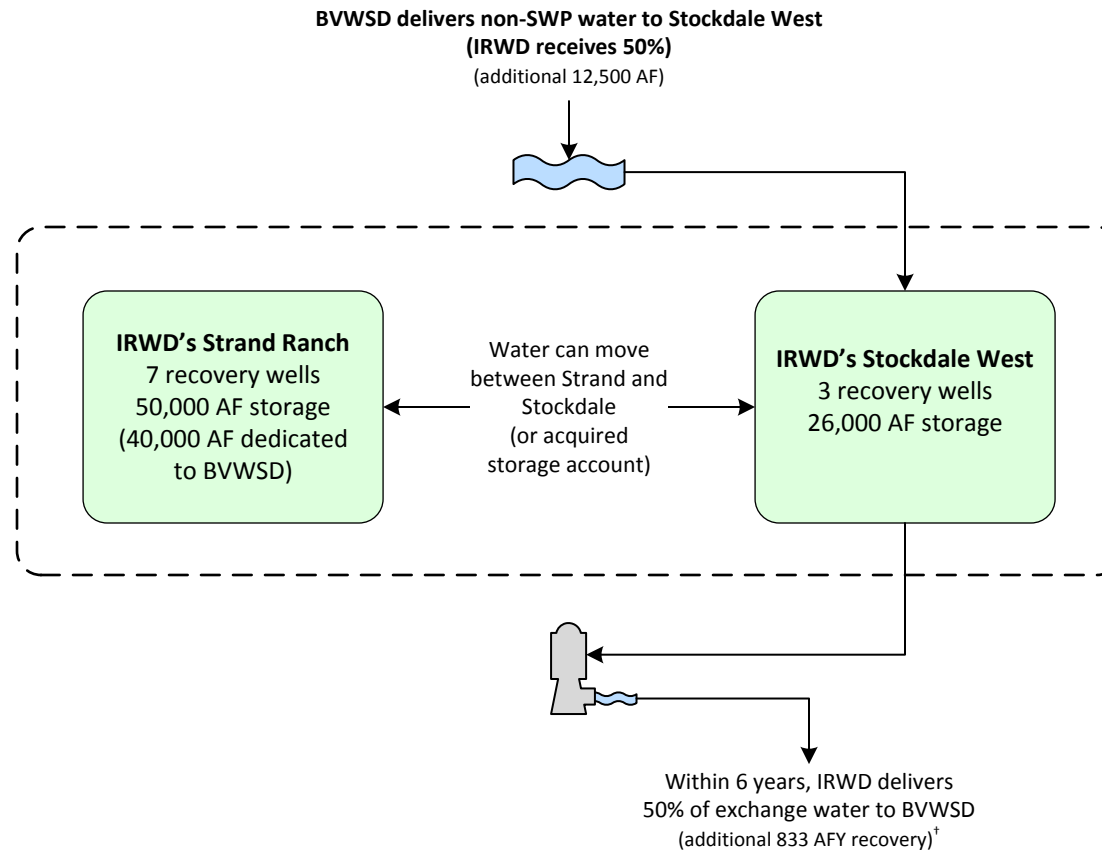
Effective 1/1/2011 through 1/12/2039



[†]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 4/1/2017 through 3/30/2018



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

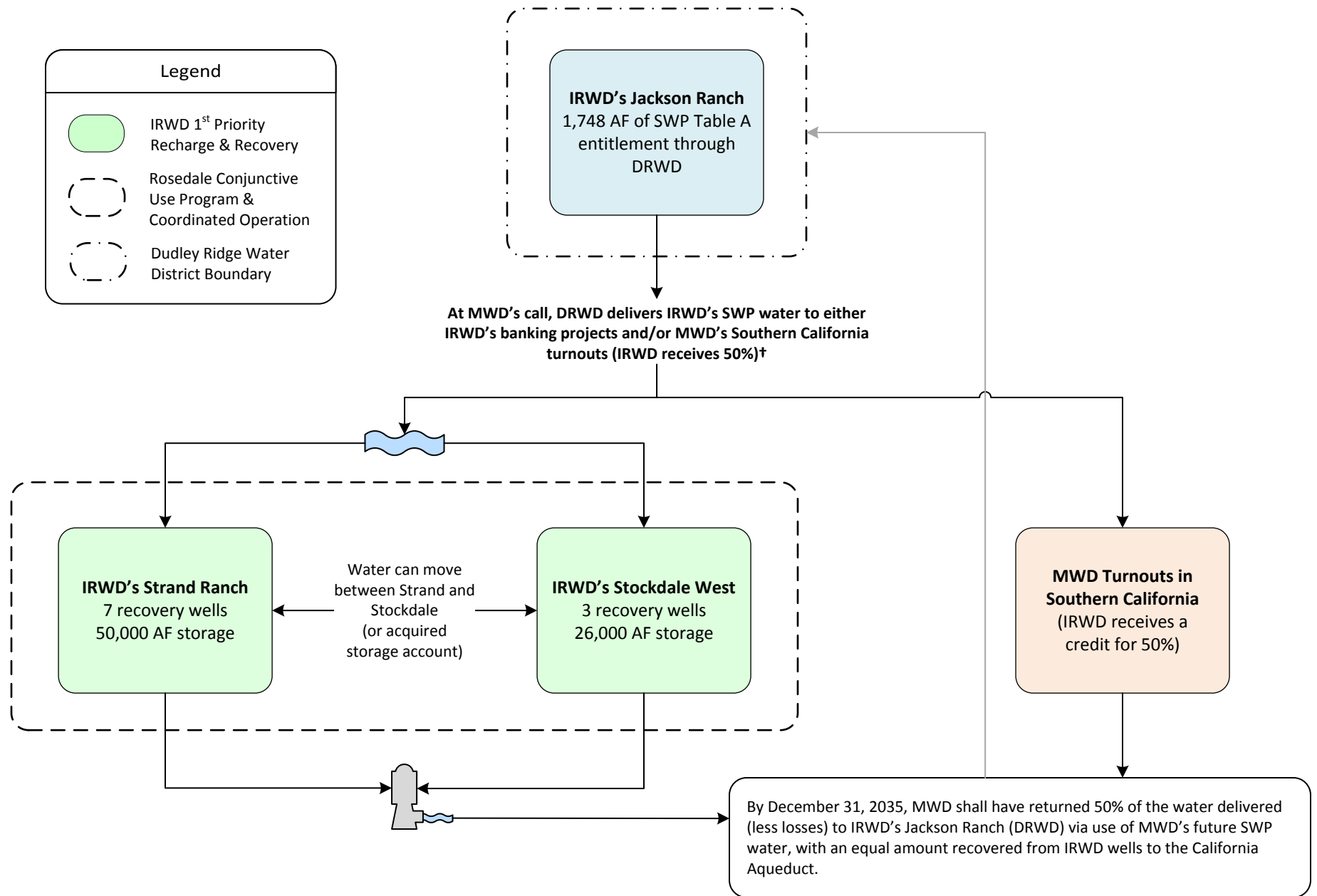
[†]IRWD shall remit one-half of the exchanged supply less one-half of reasonable losses back to BV no later than December 31st of the 6th year following the associated recharge event. IRWD pays for recovery of water returned to BV. Water to be remitted back to BV may remain in storage at Strand Ranch beyond the 6th 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	50%	50%
6	50%	50%
7	75%	25%
8	100%	0%
9	100%	0%

Exhibit "K"

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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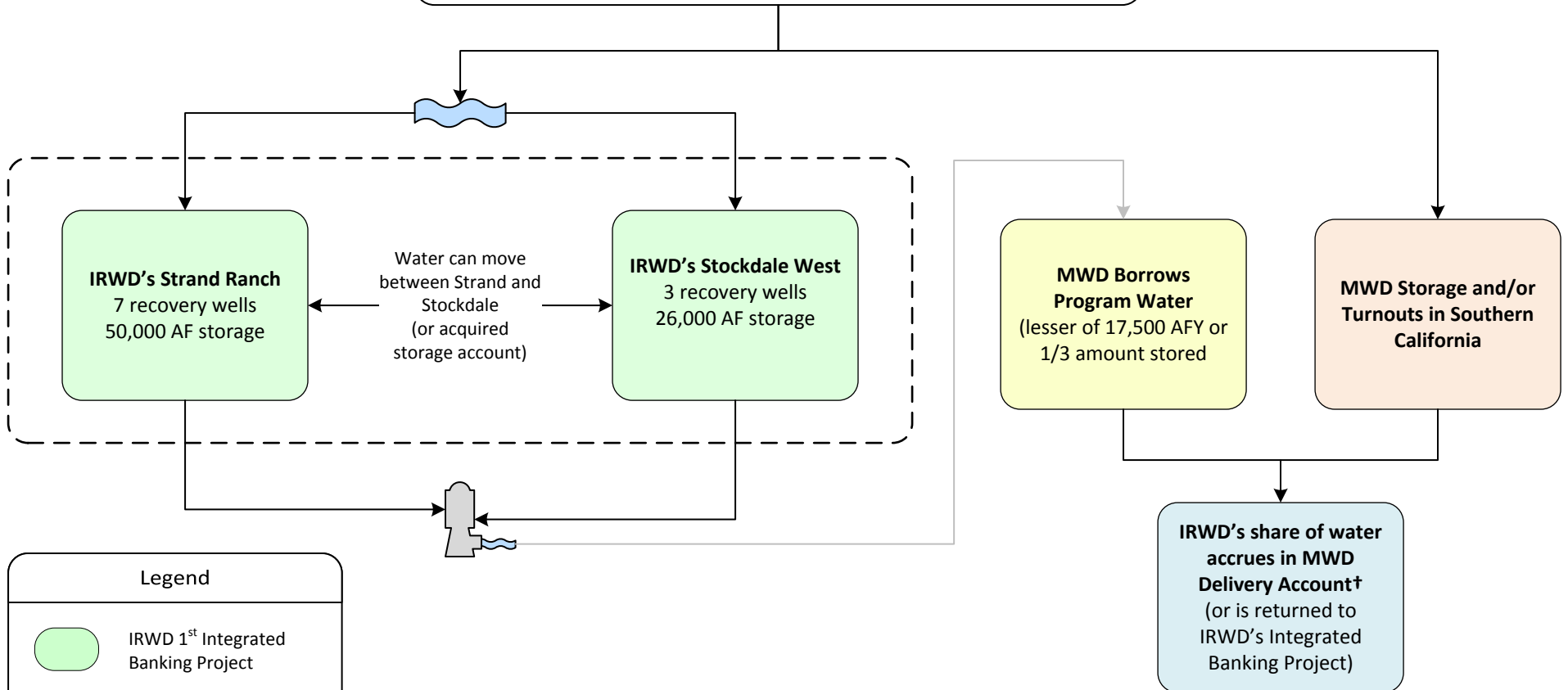
Exhibit "L"

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:

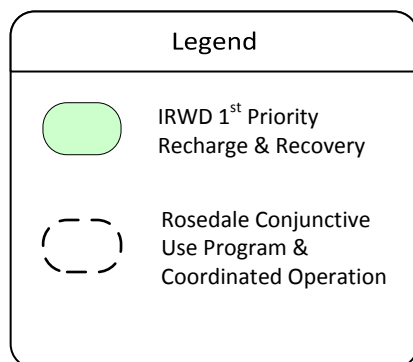
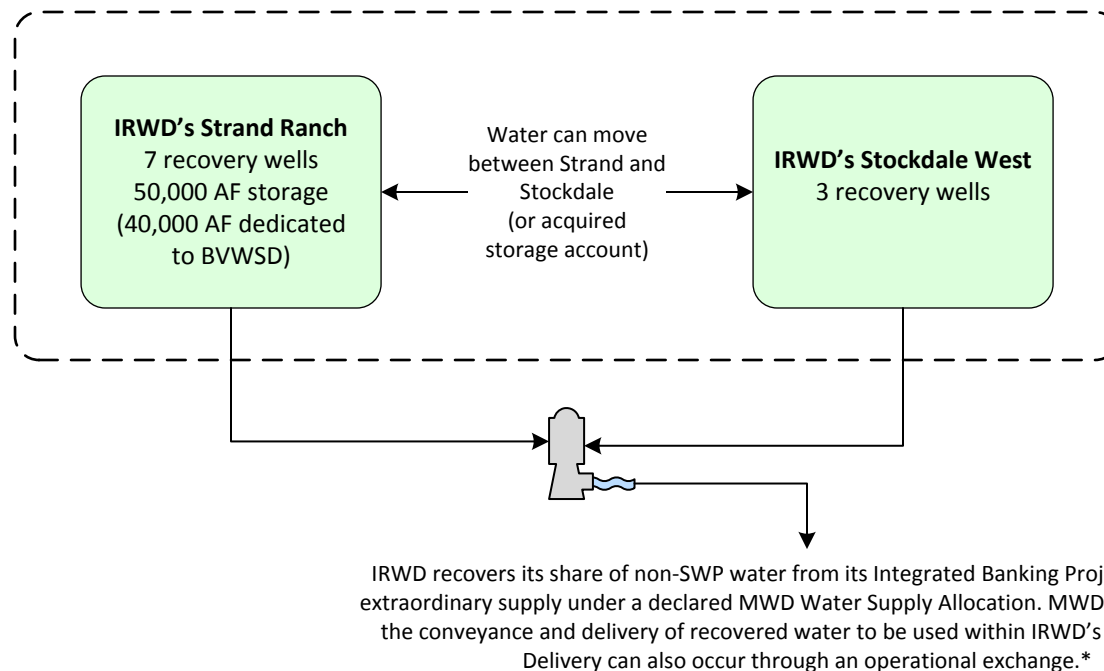
- Storage of water in IRWD's Integrated Banking Project
- Delivery to Southern California for immediate use and/or storage in MWD system
- Borrow a portion of Program water, with accrual in MWD Delivery Account



- 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 "M"
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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August 19, 2019
Submitted by: P. Weghorst
Approved by: Paul A. Cook



SUPPLY RELIABILITY PROGRAMS COMMITTEE

UPDATE ON SHARED RELIABILITY AND 60-DAY EMERGENCY SUPPLY PILOT PROGRAMS

SUMMARY:

IRWD is proposing to implement a Shared Reliability Pilot Program with the Municipal Water District of Orange County (MWDOC) and a 60-Day Emergency Supply Pilot Program for the joint benefit of IRWD, Serrano Water District, and the agencies from South Orange County that are partners in the Baker Water Treatment Plant (the South County Agencies). Staff will update the Committee regarding the ongoing discussions with these agencies related to the proposed terms for the programs.

BACKGROUND:

Over the past year, two Orange County water supply reliability pilot programs have been proposed by IRWD. The following is an update on the status of discussions with various Orange County agencies regarding the implementation of the proposed pilot programs:

Shared Reliability Pilot Program:

In June 2018, IRWD's Board of Directors approved terms for a Shared Reliability Pilot Program with MWDOC that would provide MWDOC's member agencies with extraordinary supply from IRWD's Water Bank during major droughts, water supply interruptions and other emergency conditions. Since that time, these terms have been under review and analysis by MWDOC and its consultants at CDM Smith.

Recently, staff met with MWDOC staff and engineers from CDM to help refine MWDOC's analysis of the terms proposed for the program. The refinements have primarily been to address probabilities associated with the occurrence of major earthquakes that could affect the ability to export water from the Sacramento-San Joaquin River Delta into Southern California. At the Committee meeting, staff will provide an overview of the status of MWDOC's analysis. It is expected that MWDOC's analysis will conclude that the proposed pilot project would be beneficial and cost effective to its member agencies.

60-Day Emergency Supply Program:

In June 2019, the IRWD / Serrano Water District Committee provided input on draft terms for a 60-Day Emergency Supply Pilot Program that would be implemented for the joint benefit of IRWD, Serrano, and the South County Agencies. The purpose of the pilot program would be to provide these agencies with imported water stored in Irvine Lake that could be delivered and treated at the Baker Plant in the event of an outage in Metropolitan Water District's untreated water delivery system or during other emergencies. After incorporating input received from the IRWD / Serrano Committee, staff continued to work with Serrano in the refinement of the costs

of the program. On August 1, staff presented an overview of the proposed pilot program to the South County Agencies. At the Committee meeting, staff will provide an overview of comments received to date on the 60-Day Emergency Supply Program terms.

FISCAL IMPACTS:

The draft price and payment terms for the Shared Reliability Pilot Program would allow IRWD to recover a proportional share of its capital investments in its Water Bank as well as recover the costs of water supply and appropriate operations, maintenance, replacement and administration costs. The recovery of these costs would ensure no financial impact to IRWD customers.

The draft price and payment terms associated with the 60-Day Emergency Supply Pilot Program would allow IRWD and Serrano to be reimbursed for a pro-rata share of operating and maintenance costs, evaporative losses and the use of capital facilities.

ENVIRONMENTAL COMPLIANCE:

Final Environmental Impact Reports (EIRs) for the Strand 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. Rosedale-Rio Bravo Water Storage District, as lead agency, filed Notices of Determination for the Strand and Stockdale Integrated Banking Projects with the County of Kern. IRWD, as a responsible agency, filed Notices of Determination with the County of Orange and with the County of Kern. Both EIRs evaluate the impacts of delivering water from the projects to IRWD through MWDOC. Staff and IRWD's legal counsel are evaluating the EIRs to determine whether further environmental review is needed to implement the Shared Reliability Pilot Program.

The implementation of the proposed Irvine Lake Emergency Supply Pilot Program may be subject to environmental review consistent with the California Environmental Quality Act. Staff will return to the Committee with any necessary recommendations for environmental review associated with the program.

RECOMMENDATION:

Receive and file.

LIST OF EXHIBITS:

None.

August 19, 2019
Prepared by: J. Corey / K. Welch
Submitted by: F. Sanchez / P. Weghorst
Approved by: Paul A. Cook 

SUPPLY RELIABILITY PROGRAMS COMMITTEE

ENVIRONMENTAL COMPLIANCE FOR THE KERN FAN GROUNDWATER STORAGE PROJECT

SUMMARY:

In August 2017, IRWD and Rosedale-Rio Bravo Water Storage District jointly submitted a grant application to the California Water Commission (CWC) for the proposed Kern Fan Groundwater Storage Project (Kern Fan Project). The project would develop a regional water bank in the Kern Fan area to capture, recharge, and store unallocated Article 21 water from the State Water Project (SWP) during wet hydrologic periods. The stored water would be extracted when needed to provide ecosystem, emergency supply, and water supply benefits. A Supplemental Environmental Impact Report (EIR) needs to be prepared for the Kern Fan Project consistent with requirements of the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). Staff recommends the Board authorize the General Manager to execute a Professional Services Agreement with Environmental Science Associates (ESA) in the amount of \$359,595 to prepare a Supplemental EIR for the Kern Fan Project.

BACKGROUND:

Proposition 1, also known as the Water Quality, Supply and Infrastructure Improvement Act of 2014, dedicated \$2.7 billion for investments in new water storage projects in California through the Water Storage Investment Program (WSIP). In August 2017, IRWD and Rosedale jointly submitted an application to the CWC that requested \$86 million in grant funds for the Kern Fan Project from the WSIP. In July, 2018, the CWC conditionally awarded \$67.5 million in grant funding to the project.

Project Overview:

The proposed Kern Fan Project will develop a regional water bank and associated facilities to capture and store unallocated Article 21 water from the SWP as well as other supplies during periods when surface water is abundant. The proposed project would be implemented in two phases. Phase 1 includes the acquisition of up to 640 acres of land, construction and operation of recharge facilities, up to six groundwater recovery wells, a new canal, three lift stations, and a turnout from the California Aqueduct to convey up to 500 cubic feet per second of water to and from the project. Phase 2 includes the purchase of an additional 640 acres of land and the construction and operation of additional recharge facilities, conveyance facilities, and six groundwater recovery wells. A preliminary project location map is provided as Exhibit "A".

Preparation of Supplemental EIR:

In December 2015, IRWD and Rosedale certified the Stockdale Integrated Water Banking Project Final EIR in compliance with CEQA. The Stockdale Final EIR evaluated environmental

impacts due to the construction and operation of facilities on the Stockdale West and Stockdale East properties and identified a general area for a future third water banking site. The Stockdale Final EIR included a program-level analysis of impacts associated with the construction and operations of facilities on the third site.

IRWD and Rosedale intend to implement water banking facilities on the third site as Phase 1 of the Kern Fan Project, which will be located within the boundaries identified in the Stockdale Final EIR. Accordingly, a Supplemental EIR will be prepared to include a project-level environmental review that is needed for Phase 1 of the Kern Fan Project. The Supplemental EIR will also include review of the construction and operation of the facilities contemplated in Phase 2 of the project. To support ongoing efforts to secure federal funding for the project, the Supplemental EIR will also fulfill the requirements of NEPA.

Environmental Compliance Consultant Services:

IRWD and Rosedale both have extensive experience working with ESA on water banking projects including the preparation of Final EIRs for both the Strand Ranch and Stockdale West Integrated Banking Projects. ESA's experience in the environmental review of water banking projects in the Kern Fan Area make it uniquely qualified to prepare a Supplemental EIR for the Kern Fan Project. In recognition of ESA's unique qualifications, staff has negotiated a scope of work and cost estimate with ESA to prepare the Supplemental EIR. Staff, with the assistance of Rosedale staff, has determined that the resulting proposal include the following key strengths:

- A project management team with a superior depth of expertise and knowledge of working with both IRWD and Rosedale on water banking projects;
- An excellent understanding of the key issues associated with the Kern Fan Project;
- An informed approach that reflects staff's expectations as well as the requirements of CEQA and NEPA;
- A scope of work that reflects the expected level of effort and outstanding qualifications of the project team; and
- Appropriate commitments to the project by the proposed principal in charge and the project manager.

Staff expects that using ESA's services for this work will result in an overall cost and time savings for the Kern Fan Project and recommends that ESA be awarded a sole-source Professional Services Agreement to prepare the Supplemental EIR for the project. ESA's cost estimate to complete the work is \$359,595. ESA's scope of work, cost estimate and schedule are included as Exhibit "B".

Cost Sharing with Rosedale:

The Cost Share Agreement that was executed between IRWD and Rosedale for early planning activities associated with the Kern Fan Project calls for IRWD and Rosedale to share equally the cost of the preparation of the Supplemental EIR and related technical studies necessary to

determine the recharge, storage and recovery limitations of both phases of the project. Initially, IRWD will fund the cost of the Supplemental EIR. It is expected that the agreement with ESA will be assigned to the Kern Fan Joint Powers Authority in the near future. At that time, the sharing of costs incurred with the preparation of the Supplemental EIR will be reconciled between IRWD and Rosedale.

FISCAL IMPACTS:

The cost for the environmental review of the proposed Kern Fan Groundwater Storage Project is included for Project 10854 in the FY 2019-20 Capital Budget. The existing budget and Expenditure Authorizations are sufficient at this time.

ENVIRONMENTAL COMPLIANCE:

The Kern Fan Groundwater Storage Project is subject to CEQA. A Supplemental Environmental Impact Report is being prepared in conformance with CEQA, California Code of Regulations Title 14, Chapter 3, Article 6, Section 15070.

RECOMMENDATION:

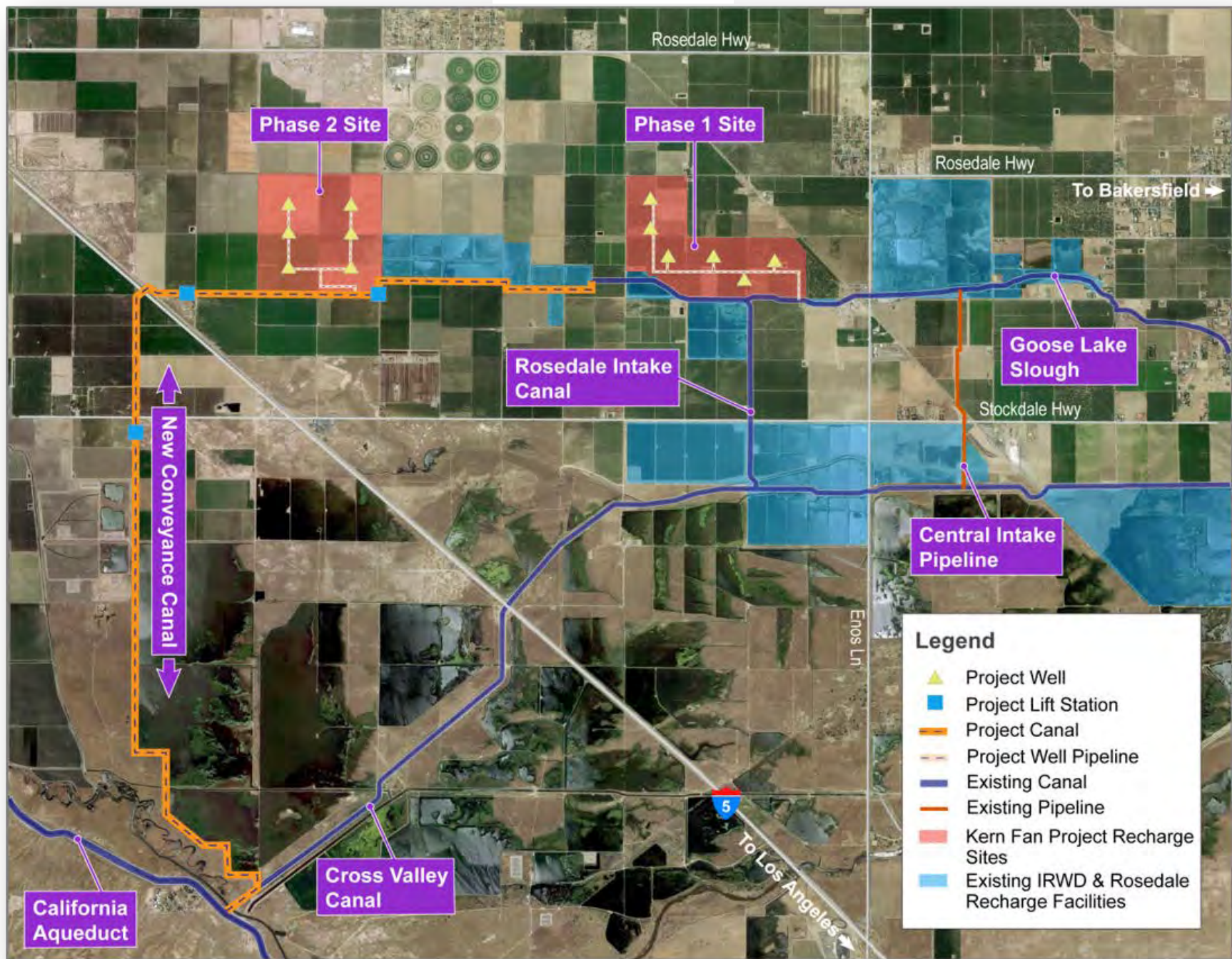
That the Board authorize the General Manager to execute a Professional Services Agreement with Environmental Sciences Associates in the amount of \$359,595 to prepare a Supplemental Environmental Impact Report for the Kern Fan Groundwater Storage Project.

LIST OF EXHIBITS:

Exhibit "A" – Kern Fan Groundwater Project Location Map
Exhibit "B" – ESA Scope of Work, Schedule and Cost Estimate for Preparing a Supplemental EIR for the Kern Fan Groundwater Storage Project

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EXHIBIT "A"



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Exhibit "B"

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Suite 1100
Los Angeles, CA 90017
213.599.4300 **phone**
213.599.4301 **fax**

www.esassoc.com

August 5, 2019

Jo Ann Corey
Irvine Ranch Water District
15600 Sand Canyon Avenue
Irvine, CA 92618

Subject: Kern Fan Groundwater Storage Project CEQA documentation

Dear Ms. Corey:

As requested by Irvine Ranch Water District (IRWD), ESA has developed a scope of work for environmental documentation, pursuant to the California Environmental Quality Act (CEQA) for the proposed Kern Fan Groundwater Storage Project (Kern Fan Project).

The proposed Kern Fan Project has received funding through the California Water Commission's (CWC) Water Storage Investment Program (WSIP). The goal of the WSIP is to fund water storage projects that provide public benefits, improve operation of the state water system, determine if they are cost effective, and provide a net improvement in ecosystem and water quality conditions. The WSIP would receive funding via Proposition 1, also known as the Water Quality, Supply and Infrastructure Act of 2014.

The Kern Fan Project was developed from the Storage Integration Study through the Association of California Water Agencies (ACWA). This study defined and quantified the benefits of integrating the operation of new storage projects with the existing State Water Project (SWP) and Central Valley Project (CVP) in the interest of helping to fulfill statewide water supply needs and priorities. As such, eight projects were described in this study that could provide such benefits, including the proposed Kern Fan Project.

The proposed Kern Fan Project would serve to develop a regional water bank in the Kern Fan to capture and store water during conditions when surface water is abundant. The Project would be implemented in two phases and would consist of two new recharge and recovery facilities, jointly owned by IRWD and Rosedale-Rio Bravo Water Storage District (Rosedale). The first phase would include purchasing 640 acres of land in the Kern Fan area while the second phase would involve acquiring an additional 640 acres for expansion of the water banking facilities in order to provide ecosystem benefits in the Delta.

In December 2015, IRWD and Rosedale certified the Stockdale Integrated Water Banking Project (Stockdale Project) Final Environmental Impact Report (Final EIR) in compliance with CEQA. The Final EIR included a program-level analysis of a 640-acre recharge and recovery site, the location of which had not been identified. For purposes of CEQA, Phase 1 of the proposed Kern Fan Project can be considered the third site of the Stockdale Project since it is within the boundaries set in the Final EIR. In addition, Phase 2 of the Kern Fan Project adds a fourth site in the vicinity of the Stockdale Project.



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Using this framework, ESA has prepared a scope of work for a supplemental EIR to the Stockdale Project Final EIR, such that the third site is specifically identified along with appurtenant conveyance facilities, and a fourth site is being added to be evaluated at a program level.

ESA will also provide permitting assistance to the lead agency preparing the pertinent permits. ESA will provide a separate scope and cost estimate for permitting upon request by IRWD or Rosedale.

1. Project Understanding

Our understanding of the Project is based on staff reports from IRWD, the July 2017 concept/feasibility report prepared by Dee Jaspar & Associates for the Kern Fan Project, and the application and appeal materials submitted to the CWC for consideration of Proposition 1 funding under the WSIP.

The Kern Fan Project will recharge and store up to 100,000 acre-feet (AF) of water, primarily during wet periods, in the Kern County Groundwater Sub-basin of the San Joaquin Valley Groundwater Basin for subsequent recovery and use for public and non-public benefits. IRWD and Rosedale propose to develop a regional water bank in the Kern Fan area that would capture, recharge and store water during conditions when surface water is abundant and extract water when needed to provide ecosystem, emergency supply, and water supply benefits. The water would be used at a later date through use of new and existing groundwater wells and subsequent direct or exchange delivery. Operations of the Project will be coordinated with the SWP through the California Department of Water Resources (DWR).

The Kern Fan Project could be operated such that in wet years, IRWD and Rosedale would divert unallocated SWP Article 21 supplies to store in the Project. IRWD and Rosedale would share first priority rights to 75 percent of the water delivered into storage for use in their respective water banking and supply reliability programs. The remaining 25 percent of the stored water would be held as SWP system water that would be used by DWR for ecosystem benefits purposes. This 25 percent of the water would be made available for ecosystem benefits through 1-for-1 exchanges that would occur when the water is extracted from the ground. The 1-for-1 exchanges would result in Table A water that is held in Lake Oroville, being reclassified as SWP system water and the SWP system water being extracted from the ground, being reclassified as Table A water. The Table A water would be used to meet demands either directly or through operational exchanges. The SWP system water left in Oroville Reservoir would then be used to provide short-term ecosystem pulse flows to generate ecosystem benefits by improving habitat for fish in the Feather and Sacramento Rivers and Delta.

The Kern Fan Project will significantly contribute to attainment of the three objectives of the California Water Action Plan: (1) more reliable water supplies; (2) improved habitat conditions of important species, and (3) more resilient and sustainably managed water infrastructure. Specifically, the Kern Fan Project will cost-effectively recharge and store groundwater for subsequent recovery to address the following project objectives:

- Enhance water supply reliability;



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- Reduce imported water demands on the San Francisco Bay/Sacramento-San Joaquin Delta Estuary (Delta) to benefit spring and winter-run Chinook salmon;
- Provide water supply during drought conditions;
- Provide water supply for emergency response benefits;
- Establish temporary wetlands through intermittent recharge events that will attract migratory and other water birds in Kern County;
- Benefit the water levels in the Kern County Groundwater Sub-basin;
- Manage water in a resilient and sustainable manner; and
- Be integrated into other water storage projects and storage reservoirs to provide greater statewide benefits

Phase 1

As mentioned above, the proposed Kern Fan Project would be implemented in two phases: Phase 1 and Phase 2. Phase 1 includes purchasing approximately 640 acres of land within Rosedale's boundary and within the boundaries of the Stockdale Project Final EIR. Groundwater recharge facilities including interbasin structures, conveyance facilities, and six groundwater recovery wells would be located on this property as shown on the Feasibility Study Map, which is included as Appendix A in the Dee Jasper report (July 2017). The initial recharge at this proposed Phase 1 property would be 230 cubic-feet per second (cfs) but decrease to an approximate maintenance rate of 115 cfs.

Phase 1 includes the construction of new conveyance facilities, including a conveyance pipeline, check structure, and turnout structure with lift station. Water would be conveyed to the Phase 1 property for groundwater recharge from Friant-Kern Canal or Kern River via the Goose Lake Slough or from the Cross Valley Canal (CVC) via the Rosedale Intake Canal. Therefore, Phase 1 includes construction of a conveyance pipeline between the Rosedale Intake Canal and the proposed Phase 1 property. A new check structure would be constructed in the Goose Lake Slough with a reinforced concrete turnout structure to convey water from the Goose Lake Slough to the proposed Phase 1 property. The turnout structure would include a lift station with four 60-cfs pumps. Each pump would be equipped with 300 horsepower (hp) vertical motors, discharge piping, metering, appurtenances, lighting, electrical, controls, and SCADA communication.

Another component of Phase 1 includes the construction of six recovery wells which would return water to the Goose Lake Slough or to the CVC via the Rosedale Intake Canal. Each well would be 20-inch diameter cased to approximately 920 feet with an approximate capacity of 5 cfs. The wells would be equipped with vertical turbine pumps, 400-hp vertical motors, discharge piping, appurtenances, electrical and controls, and site improvements.

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Currently, the Goose Lake Slough is used to supply water to the existing Rosedale West Basins for groundwater recharge. In order to have capacity in the Goose Lake Slough to recharge water at Phase 1 property, water would be supplied to the existing Rosedale West Basins via a new canal, three lift stations, and a reinforced concrete turnout at the California Aqueduct. As a result, the final component of Phase 1 includes the construction of a canal, lift stations, and a reinforced concrete turnout to convey 500 cfs of water approximately 10 miles to the easterly end of Rosedale West Basins. The proposed concrete lined canal would convey this water supply and have siphon crossings at several locations including East Side Canal, KWB Main Canal, WKWD 36" DIP Transmission Main, Stockdale Highway, Kosareff Storage Yard & Residence, and Interstate 5 (I-5) Freeway. Three lift stations would be constructed within the canal where the first two lift stations would consist of a reinforced concrete pump station, six 83-cfs low lift pumps with 400-hp vertical motors, discharge piping appurtenances, electrical and controls and the third station would consist of a reinforced concrete pump station, six 67-cfs low lift pumps with 300-hp vertical motors, discharge piping appurtenances, electrical and controls. The first two lift stations would convey 500 cfs to the east side of the I-5 freeway and the third lift station would convey 400 cfs to the Rosedale West Basins and the Goose Lake Slough. Lastly, a reinforced concrete turnout structure would be constructed at the east end of the West Basins to convey recharge water to the Rosedale West Basins and Goose Lake Slough if needed.

Phase 2

Similar to Phase 1, Phase 2 includes the construction and operation of groundwater recharge and recovery facilities and the purchase of an additional 640 acres of land within the Rosedale boundary but outside of the limits of the Stockdale Project Final EIR. The preliminary location for Phase 2, shown on the Feasibility Study Map (Dee Jasper, July 2017), is used for purposes of scoping a program level assessment for Phase 2; however, this location is subject to change. Groundwater recharge would initially occur at 230 cfs but would decrease to an approximate maintenance rate of 115 cfs. Phase 2 would consist of the construction of levees, interbasin structures, conveyance facilities, and six groundwater recovery wells. These would be 20-inch diameter wells cased to approximately 920 feet. Each well would be equipped with vertical turbine pumps, 400-hp vertical motors, discharge piping, appurtenances, electrical and controls, and site improvements. These recovery wells would return water to the California Aqueduct, the Goose Lake Slough, or the CVC via the Rosedale Intake Canal.

2. Scope of Work

ESA proposes to provide environmental documentation that complies with the State CEQA Guidelines as well as CEQA Plus requirement of the State Water Resources Control Board. All deliverables defined below in the scope of work will be provided in electronic format unless otherwise indicated. Electronic files will include both Microsoft Word and Adobe PDF format. All electronic deliverables will be made available on a password-protected FTP site and/or provided on CD where indicated.



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Task 1: Project Initiation and Project Management

ESA will attend a kick-off meeting at IRWD offices. ESA will prepare a schedule and outline for the Draft Supplemental EIR (SEIR). After the kick-off meeting, ESA will prepare and submit an initial data request for information necessary to inform the project description and the impact analyses.

ESA will provide regular status updates to IRWD and Rosedale. Potential impacts to schedule will be reported to both agencies promptly. ESA will participate in monthly team conference calls with IRWD and Rosedale on an as-needed basis to maintain focus on action items and milestones for effective schedule management. ESA will be available for additional team meetings as identified in the tasks below, at IRWD offices or by teleconference over the course of the Project. We anticipate approximately eight (8) hours per month for Project management and coordination for the duration of the Project (15 months), including correspondence and invoicing.

Task 2: Project Description

ESA will prepare a draft project description based on information provided by IRWD and Rosedale. This scope of work assumes that IRWD and Rosedale will provide ESA with materials sufficient to inform the project description, including the Phase 1 and Phase 2 project components, footprints, and general characteristics/features. Phase 1 components will be described specifically while Phase 2 components will be described generally. The project description will include project location and setting, site characteristics, project objectives, components of the project, construction methods and schedule, and operation and maintenance requirements, including operational energy usage. This section will also include the requested permits and approvals for the proposed Project.

The project description will describe the conditions under which DWR would use water stored in the Project for public benefits, including ecosystem benefits in the Delta and emergency water supply in the event of drought or infrastructure failure. The Draft SEIR will briefly describe the operational plans being prepared by DWR and CDFW to manage the use of water stored in the Project (as well as other similar projects throughout the state) and monitor the benefits as required by the CWC, including an Emergency Supplies Operational Plan, Oroville Operational Plan, and Adaptive Management Plan. The Draft SEIR will not evaluate the environmental impacts of implementing these plans other than describing the ecosystem benefits associated with the water stored in the Project.

In addition, ESA will submit a preliminary list of the past, present, and reasonably foreseeable future projects and activities in the surrounding areas that will serve as the basis for the cumulative impact analysis, as well as an overview of the Project alternatives to be analyzed in the EIR. ESA will submit the draft project description to IRWD and Rosedale for review. ESA will attend up to two (2) team meetings to discuss the project description and will revise the project description up to two times after receipt of consolidated comments from both agencies.



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Task 3: Notice of Preparation and Notice of Completion

Concurrently with preparation of the project description (Task 2), ESA will prepare the Notice of Preparation (NOP) and Notice of Completion (NOC) as required by the State CEQA Guidelines including a brief description of the Project, site map, and summary of potential environmental impacts of the Project. This scope of work assumes that an Initial Study will not be prepared or included with the NOP.

ESA will confer with IRWD and Rosedale to create a mailing list that identifies appropriate stakeholders. ESA will conduct mailings to the State Clearinghouse, responsible and trustee agencies, surrounding property owners and persons requesting notice. ESA will post a public notice in the *Bakersfield Californian* and *Orange County Register* and will file the NOP with the Orange County and Kern County Clerks. ESA will attend one (1) meeting with the Project team for this task.

Task 4: Public Scoping

ESA will work with IRWD and Rosedale to coordinate and attend two (2) public Scoping Meetings, one in the vicinity of the Project location and Rosedale in Kern County and one in the vicinity of IRWD in Orange County. ESA will prepare presentation materials and conduct an interactive presentation to solicit and record public comments pertaining to the scope and content of the EIR.

ESA will prepare a scoping memorandum summarizing the scoping process and comments received during the NOP review period and Scoping Meetings. The comment memorandum will be included as an Appendix to the Draft SEIR. In addition to the Scoping Meetings, ESA will attend one (1) rehearsal meeting with the Project team prior to the Scoping Meeting for this task.

Task 5: Technical Studies

Task 5a: Biological Resources Technical Report

ESA will prepare a Biological Technical Report (BTR) describing the biological resources within the various project areas including up to a 500-foot buffer (250 feet for linear elements) beyond the potentially affected areas. The BTR will provide an assessment of Project impacts to biological resources. The BTR will be appended to the Draft SEIR and referenced in the Biological Resources chapter of the Draft SEIR. The BTR will summarize the biological field survey methodology, findings, and mitigation recommendations. This serves to streamline the Draft SEIR chapter and improve readability.

ESA in-house biologists will conduct a CNDDDB database search to update the special status-species with potential to occur in the vicinity of the Project, relative to those identified in the previous Stockdale Project Final EIR. ESA will also review relevant documentation for the near-adjacent Kern Water Bank NCCP/HCP area, the Metropolitan Bakersfield HCP, and the Bakersfield HCP (if available). ESA biologists will conduct a field survey to characterize the baseline conditions of biological resources at the Project sites, for use in evaluating Project impacts. The field survey will focus on the footprint of facilities associated with Phase 1 of the Project but



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will also provide mapping of habitat or land cover for Phase 2. A windshield survey in and around the Project vicinity will inform the description of baseline conditions in the area being considered for Phase 2 facilities. The field survey will take two people up to three days to complete. Once the baseline conditions are established, ESA will evaluate the potential impacts to special-status species and plant communities. As burrowing owl (*Athene cunicularia*) is known to occur in the area, potentially suitable burrows and any evidence of owls will be identified and recorded using GPS units. This scope of services does not include full protocol surveys for burrowing owl since it is presumed to be premature to conduct that level of effort. Mitigation recommendations will be included if necessary, along with a discussion of the applicability of any mitigation measures from the previous Stockdale Project Final EIR. The BTR will include a comprehensive list of permits required from resource agencies to implement the Project as well.

The BTR will include a section describing the fishery ecosystem benefits of the Project, relying on the analysis in the technical memorandum prepared by Cramer Fish Sciences (8/4/2017) to characterize these benefits, particularly for Chinook salmon (*Oncorhynchus tshawytscha*), but for other fish species as well.

If direct evidence of special-status species, such as burrowing owl or kit fox, are detected during the field survey, ESA will determine if there may be a need for additional focused surveys for such species and provide recommendations for potential future surveys. If the Project schedule warrants it, ESA would submit an additional scope and fee to conduct surveys in the near term, if necessary.

Task 5b: Cultural Resources Technical Report

ESA will conduct a Phase I Cultural Resources Assessment (CRA) to evaluate the potential impacts associated with the Project. The report will address both CEQA and Section 106 of the National Historic Preservation Act requirements. ESA will compile an Area of Potential Effects (APE) Map that encompasses areas of direct and indirect effects for the Phase 1 Project components. ESA will conduct a records search at the Southern San Joaquin Valley Information Center at California State University, Bakersfield for the Project area plus a 0.5-mile buffer and additional archival research to identify known and potential cultural resources within the Project area prior to initiating a field survey. ESA also request a Sacred Lands File Search from the Native American Heritage Commission.

The field survey will be conducted by a team of four surveyors over the course of six days and will be aimed at identifying surface evidence of archaeological resources and historic built environment resources within the APE. ESA assumes that the survey not exceed 640 acres and 10 linear miles (with a survey corridor not to exceed 300 feet in width), and that the lift stations, turnout, check structure, and any proposed staging areas or access routes will be encompassed within this area. Based on our previous work in this area, ESA anticipates that both prehistoric and historic-era resources may be encountered during the survey and, for the purposes of this scope of work, we assume that no more than five cultural resources will be documented or updated. If additional resources are encountered, IRWD-Rosedale will be notified immediately. ESA also assumes that formal evaluations of any un-evaluated resources will not be necessary. If un-evaluated resources cannot be avoided and there is a potential



Ms. Corey
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for impacts, evaluations to determine if the resources qualify as historical resources pursuant to CEQA or historic properties pursuant to Section 106 would be conducted under a separate scope and cost.

ESA will summarize information from the records search and site survey and identify the potential for impacts to archaeological, historical, and Native American resources in the Phase I CRA. The Phase I CRA will also address potential impacts to the California Aqueduct, which was previously determined eligible for the National Register and is listed in the California Register, and is thus a historical resource pursuant to CEQA and historic property pursuant to Section 106. Similar to the BTR, the CRA will serve to streamline the Cultural Resources EIR chapter and improve readability. Citing the results of the CRA, the EIR will identify potential impacts of the Project and provide mitigation measures to minimize impacts.

Task 5c: Prepare Paleontological Resources Technical Report

ESA will conduct a Paleontological Resources Assessment (PRA) to evaluate the potential impacts associated with the Project. A paleontological database search will be requested from the Natural History Museum of Los Angeles County (LACM) to identify the potential for fossil-sensitive formations to be impacted by the Project. Geologic and soils maps, geotechnical studies, and unpublished literature will be reviewed. The results of the paleontological resources study will be documented in a Paleontological Resources Assessment Report (PRAR), which will contain the geological and regulatory contexts for the Project, will summarize the methods and results of the research, and will provide recommendations for additional work or mitigation measures, if any are deemed necessary. Similar to the BTR and CRA, the PRA will serve to streamline the analysis of paleontological resources in the Geology and Soils chapter of the EIR and improve readability. Citing the results of the PRA, the EIR will identify potential impacts of the Project and provide mitigation measures to minimize impacts.

Task 6: Prepare an Administrative Draft SEIR

ESA will prepare an Administrative Draft SEIR (ADSEIR) in accordance with State CEQA Guidelines and CEQA Plus Guidelines. The ADSEIR will include the project description, including any revisions that occur as a result of the Scoping Meeting. The ADSEIR will summarize environmental setting, regulatory framework, potential environmental impacts, and proposed mitigation by resource area. Phase 1 will be evaluated at a project level, and Phase 2 will be evaluated at a program level. As required by CEQA, the setting will describe the baseline conditions in the study area “as it exists before the commencement of the project” and the effects of the Project on existing conditions. The impact analysis will identify direct, indirect, and cumulative impacts for design, construction, and operation of the Project based on thresholds of significance. The analysis will include all environmental topics in Appendix G of the CEQA Guidelines (December 2018). Mitigation measures will be identified to avoid or substantially lessen potential environmental effects. The ADSEIR will also provide an analysis of CEQA project alternatives.

To the extent feasible, ESA will leverage in the information in the Stockdale Project Final EIR to streamline the effort to prepare the Kern Fan Project ADSEIR. For similar impacts, mitigation measures adopted in the Stockdale Project Final EIR will be incorporated into the Kern Fan Project ADSEIR.



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ESA will submit the ADSEIR to IRWD and Rosedale for review. ESA understands that IRWD and Rosedale will provide the ADSEIR to CWC, DWR, and CDFW for review as well. ESA will attend two (2) team meetings during the ADSEIR preparation stage. The following issue areas will be addressed in the ADSEIR.

Aesthetics

The ADSEIR will summarize the aesthetic and visual impacts associated with construction and operation of the proposed Project. The ADSEIR will include photographs and a description of existing visual conditions in the Project area and will evaluate if the proposed Project will substantially degrade the existing visual character of the Project area. The ADSEIR will evaluate the potential effects to public view corridors resulting from the proposed Project and determine whether the Project would substantially alter the character of scenic vistas or create substantial new sources of light and glare. Mitigation measures will be identified if necessary to reduce aesthetic impacts.

Air Quality

The ADSEIR will summarize existing air quality in the Project area and will identify current attainment plans for criteria pollutants. The San Joaquin Valley Air Pollution Control District (APCD) thresholds of significance will be identified for operational and construction activities. ESA will coordinate with the Project team to identify construction-related and operational impacts of the Project to air quality. Utilizing the latest California Emissions Estimator Model (CalEEMod), ESA will estimate emissions of criteria pollutants resulting from the construction methods to be used in construction of Phase 1 facilities. These results will be extrapolated to estimate air emissions associated with construction of Phase 2 facilities. The ADSEIR will also estimate long-term operational emissions for both Phase 1 and Phase 2 based on estimates of equipment operation and energy use. ESA will prepare a data request to identify the types, number, and duration of use of equipment needed for operational and construction activities. The ADSEIR will provide the setting and air quality impact assessment and mitigation measures will be developed to minimize air pollutant emissions. The ADSEIR will compare Project emissions with APCD threshold of significance. The ADSEIR will also evaluate the Project's consistency with the regional air quality attainment plans and will address global climate change issues (see GHGs below).

Biological Resources

Impact analysis in the ADSEIR will be based on the Biological Technical Report (BTR) (see Task 5a). The ADSEIR will document the existing biological resources in the Phase 1 and Phase 2 project areas, present the potential impacts as identified in the BTR, and include recommended mitigation measures as necessary. As required for the CWC WSIP, the ADSEIR will also include the description from the BTR that describes how the Project will provide ecosystem benefits in the Sacramento-San Joaquin Delta.

Cultural Resources

Impact analysis in the ADSEIR will be based on the Cultural Resources Assessment (CRA) (see Task 5b). The ADSEIR will document the existing cultural and historic resources in the Phase 1 and Phase 2 project areas,



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present the potential impacts as identified in the CRA, and include recommended mitigation measures as necessary.

Geology, Soils and Mineral Resources

The ADSEIR will include regional and local geologic and seismologic data pertinent to the Project area, including information from the U.S. Geological Survey and California Geological Survey as well as data from any geotechnical reports prepared for the Phase 1 sites. The ADSEIR will identify potential geologic impacts of the Project and will provide mitigation measures to minimize the effects where possible. The ADSEIR also will identify any mineral resource zones or oil well fields in the Project area and potential impacts related to access to such resources. This section will also include an analysis of potential impacts to paleontological resources based on the Paleontological Resources Assessment (PRA) (see Task 5c).

Greenhouse Gas Emissions (GHGs) and Energy

The ADSEIR will include analysis of Greenhouse Gas Emissions (GHGs) for the Project. Construction-related and operational GHGs would be quantified in terms of CO₂ equivalents (CO₂e) to account for varying warming potential of gases, and compared to regional thresholds of significance. ESA will also determine whether the Project would interfere with implementation of the California Global Warming Solutions Act of 2006 (Assembly Bill No. 32, or AB32) or Governor Schwarzenegger's Executive Order S-3-05, which both set State-wide goals to reduce GHGs to 1990 levels by 2020. This analysis will consider the collective size of Project facilities with respect to levels of CO₂e emissions and the energy efficiency parameters of the Project. The ADSEIR will identify potential impacts to local and regional energy supplies and potential for conflicts with state and local plans for renewable energy and energy efficiency due to Project operation.

Hazards and Hazardous Materials

ESA will conduct a search of publically-available databases (including the Cortese List in accordance with Appendix G of the CEQA Guidelines) to identify any hazardous materials sites in the Project vicinity. The ADSEIR will summarize the results of the database search and rely on other Project-related documentation (e.g., Phase I Site Assessments) to identify known contamination sites at the Phase 1 properties and the general vicinity for Phase 2 components. The EIR will list potentially hazardous materials used at the Project sites historically and disclose hazardous materials to be stored or used during construction and operation of the proposed Project. If applicable, the ADSEIR will address the potential effects of the Project on mobilization of existing soil contamination and/or groundwater contamination due to construction and operation of the Project. This scope of work does not include groundwater modeling; any inference regarding Project effects on subsurface contaminants would be done using groundwater modeling provided by IRWD and Rosedale (see Hydrology and Water Quality below). Mitigation measures will be developed to minimize potential hazards where feasible.



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Hydrology and Water Quality

The ADSEIR will identify surface water and groundwater resources in the Project area and will evaluate potential impacts posed by the Project during construction and operation. The ADSEIR will rely on geotechnical investigations and groundwater modeling to be provided by IRWD and Rosedale that describe the recharge capacities of the Project sites and potential impacts of recharge and extraction activities both onsite and offsite in accordance with the Project terms of operation. The ADSEIR will summarize the results of a groundwater drawdown analysis for proposed production well operations and a mounding analysis for proposed recharge operations. The ADSEIR will describe publically-available groundwater quality data and analyze the impact of Project operations on any nearby plumes. The ADSEIR will describe storm water runoff control requirements and provide mitigation if necessary to meet construction and operational storm water runoff quality requirements. The ADSEIR will describe the applicability of Rosedale's Long Term Recovery Operations Plan, as developed for the Stockdale Project and appended to that Final EIR.

In addition, the ADSEIR will discuss the Sustainable Groundwater Management Act (SGMA) and evaluate the potential for the Project to conflict with SGMA and the groundwater sustainability plan (GSP) being developed for the Project area. We understand Rosedale is part of the Kern Groundwater Authority Groundwater Sustainability Agency (GSA). This scope of work assumes that Rosedale will provide information to ESA regarding the GSA and the development of the GSP and the relationship of the Kern Fan Project to the GSP.

Land Use, Agriculture and Forestry

ESA will conduct land use surveys of the Project area to identify current uses and sensitive receptors. Local General Plans, airport master plans, and habitat conservation plans will be identified and summarized as applicable. State-designated important farmland and Kern County agricultural preserves in the Project area also will be identified. The ADSEIR will identify the adopted land use and agricultural goals and policies that could be affected by the Project. The ADSEIR will evaluate consistency of the proposed Project with existing land uses within the project area and develop mitigation measures to avoid or substantially lessen inconsistencies where feasible. This scope of work assumes that the California Agricultural Land Evaluation and Site Assessment (LESA) model will be used to evaluate impacts, similar to the analysis in the Stockdale Project Final EIR. Some Kern Fan Project components may be placed on agricultural lands such as the canal and lift stations. The LESA model will be used to substantiate conclusions regarding impacts of such permanent improvements to agricultural lands.

Noise

ESA will briefly describe and discuss existing noise sources at the Project site and describe the existing noise environment. ESA will summarize state and local noise policies, regulations, and standards as they pertain to the proposed Project. The EIR will discuss the potential for onsite construction activities to generate noise and affect sensitive receptors. This discussion will be based upon proposed construction activities and scheduling information provided by IRWD and Rosedale. Otherwise, this discussion will be based upon peak noise and vibration levels generated by an assumed standard mix of construction equipment and activities. The ADSEIR



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will evaluate the Project compliance with existing noise standards and policies. This scope of work assumes no noise measurements are required for purposes of the ADSEIR.

Population and Housing / Growth Inducement

ESA will evaluate and discuss the potential for the Project to indirectly induce growth due to the potential for the Project to remove an obstacle to growth, namely water supply. The ADSEIR will discuss population growth in both IRWD and Rosedale's service area, along with general water supply and demand projections. The ADSEIR will discuss the purpose of the Project to improve overall water supply reliability within IRWD's service area rather than a predictable water source that would support development on an annual basis.

Tribal Cultural Resources

This scope of work assumes that IRWD and Rosedale will implement the Tribal outreach and consultation as required by Assembly Bill 52. The ADSEIR will summarize the results of such outreach and consultation, noting whether any Tribal Cultural Resources will be impacted by the Project and any mitigation measures agreed upon by IRWD, Rosedale and the Tribes. As part of this task, ESA has included time to assist IRWD and Rosedale with consultation, including assistance with drafting notification letters, responding to requests for consultation, and participating in up to one conference call with Tribes. We have included up to 8 hours of staff time for assistance with consultation.

Transportation

The ADSEIR will characterize the existing regional and local transportation networks in the Project area, including traffic flow, access, and circulation conditions. The ADSEIR will assess the potential for construction traffic and operational traffic to conflict with programs, plans, ordinances, or policies addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities. ESA will estimate Project construction traffic volume on the basis of estimates of earthwork quantities onsite, worker crew size, and equipment needs. This will be used to evaluate Project effects to vehicle miles traveled and emergency access. Mitigation measures will be developed if required to reduce adverse effects to traffic and circulation.

Utilities, Service Systems

The ADSEIR will review the potential effects of the Project on utilities and energy use resulting from both construction and operation of the Project. The ADSEIR will describe any potential need for water entitlements to operate the Project.

Wildfire

Wildfire is a new resource category added to the CEQA Guidelines Appendix G in December 2018. The ADSEIR will reconfirm that the project area is not located in a high fire hazard zone or state responsibility area, and therefore will have no impacts related to wildfire.



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Cumulative Effects

ESA will address potential cumulative impacts of implementing the proposed Project in conjunction with past, present, and reasonably foreseeable public and private projects in the immediate Project area. The analysis will include a description of the geographic area in which cumulative impacts could be experienced for each resource area. ESA will consult the local General Plan and relevant agencies to compile a list of major projects planned within or near the area over the next 10-15 years as well as projects under way or completed in the last five years. A brief description of the relevant past, present, and proposed future projects occurring in the area that could produce effects similar to the Project will be provided. As CEQA requires, the analysis will focus on the potential for the Project's impacts to be cumulatively considerable when combined with the impacts of other related projects.

Alternatives

The ADSEIR will evaluate alternatives to the Project including the No Project Alternative plus up to two additional alternatives, as dictated by Project impacts and CEQA requirements. The ADSEIR will compare the alternatives to determine if any would substantially meet the project objectives and reduce significant impacts associated with the proposed Project. As required by CEQA, IRWD and Rosedale will consider any alternatives identified by agencies or others at scoping meetings or in response to the NOP and determine whether they should be included in the ADSEIR as feasible or infeasible. The ADSEIR will identify the environmentally superior alternative based on the conclusions of the analysis.

CEQA Plus Requirements

To satisfy the National Environmental Policy Act (NEPA), the CEQA-Plus Guidelines of the SWRCB require the review of federal cross-cutting regulations. The ADSEIR will include a chapter that assesses the potential for the Project to comply with such federal laws and executive order, including the following:

- Clean Air Act
- Coastal Barriers Resources Act
- Coastal Zone Management Act
- Endangered Species Act
- Environmental Justice Executive Order
- Farmland Protection Policy Act
- Floodplain Management Executive Order
- Magnuson-Stevens Fishery Conservation and Management Act
- Migratory Bird Treaty Act
- National Historic Preservation Act



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- Protection of Wetlands Executive Order
- Safe Drinking Water Act
- Wild and Scenic Rivers Act

Task 7: Prepare a Screencheck Draft SEIR

ESA will revise the Draft SEIR per the comments received from IRWD and Rosedale staff on the ADSEIR. ESA will prepare a Screencheck Draft SEIR for review by both agencies. ESA will attend one (1) team meeting to discuss revisions to the ADSEIR prior to circulating the Screencheck Draft SEIR to IRWD and Rosedale to review.

Task 8: Prepare Public Draft SEIR, Notice of Availability, and Notice of Completion

ESA will incorporate comments from IRWD and Rosedale staff and prepare the Public Draft SEIR. ESA will compile the mailing list and conduct the mailing and public noticing required by CEQA for the Public Draft SEIR. ESA will prepare and file the NOC with the State Clearinghouse and the Notice of Availability (NOA) of the Draft SEIR with both the Orange County and Kern County Clerks. The notices will include the date and location of public meetings on the Draft SEIR. ESA will produce up to five (5) bound hard copies, fifty (50) CDs containing electronic versions of the Public Draft SEIR, fifty (50) NOAs, and five (5) NOCs, and two (2) CDs with PDF files of the Draft Public SEIR, NOA, and NOC for IRWD and Rosedale records.

Task 9: Conduct Public Meeting

ESA will organize and arrange two (2) Public Meetings to receive comments on the Draft SEIR, one in Orange County and one in Kern County. ESA will take the lead in conducting a presentation. ESA will prepare presentation materials and an agenda and conduct a presentation. Presentation and/or hard copy materials will be approved by IRWD and Rosedale in advance of the meetings. The presentation will be organized as a summary overview of the Draft SEIR and will identify potential environmental issues. ESA will attend one (1) rehearsal meeting with the Project team prior to the Public Meetings for this task.

The purpose of the Public Meetings will be to collect additional comments on the Draft SEIR. ESA will document all comments received during the Public Meetings and will incorporate them into the Final SEIR if applicable.

Task 10: Prepare Final SEIR and Response to Comments

At the conclusion of the public review period, ESA will work with IRWD and Rosedale to obtain all comments received on the Draft SEIR. ESA will provide a detailed review and evaluation of all of the comments received. ESA will develop a strategy for addressing the comments and will present this approach to IRWD and Rosedale during a team meeting. An Administrative Final SEIR containing proposed responses to comments to the Draft



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SEIR will be prepared once ESA's approach is agreed to by IRWD and Rosedale. For purposes of estimating level of effort, this scope assumes no more than 40 pages of comment letters will be received.

ESA will submit an administrative Final SEIR to IRWD and Rosedale for review. After incorporation of comments on the Administrative Final SEIR, ESA will prepare a Screencheck Final SEIR for review by IRWD and Rosedale. ESA assumes that comments on the Screencheck Final SEIR will be minimal, due to early consultation with both agencies when comments are received.

The Response to Comments in conjunction with the Draft SEIR will constitute the Final SEIR. After IRWD and Rosedale have reviewed the Final SEIR, ESA will incorporate the necessary revisions into the document and will mail a copy to each entity that commented.

Task 11: Prepare Findings, Statement of Overriding Considerations, Notice of Determination

ESA will prepare draft Findings of Fact and a Statement of Overriding Considerations (SOC) (if necessary) for review by the IRWD and Rosedale Boards of Directors. ESA will incorporate IRWD and Rosedale's comments and will prepare the final Findings. ESA will prepare and file the Notice of Determination (NOD) with the County Clerks and the State Clearinghouse following certification by Rosedale first as the CEQA Lead Agency and IRWD second as a Responsible Agency. The 2019 CEQA filing fees for California Department of Fish and Wildlife, as well as County filing fees, are included as part of this task.

Task 12: Prepare a Mitigation Monitoring Compliance and Reporting Program

In compliance with Public Resources Code Section 21081.6, ESA will prepare a draft Mitigation Monitoring Compliance and Reporting Program (MMCRP) for review by IRWD and Rosedale. MMCRP describes the required mitigation necessary to avoid or reduce significant impacts, the responsible parties, tasks, and schedule necessary for monitoring mitigation compliance.

3. Cost Estimate and Schedule

Attached as **Table 1** is a detailed cost estimate showing the level of effort for each task described above, based on hourly assumptions and ESA standard billing rates. The cost of the proposed Project is not-to-exceed \$359,595.

The following is ESA's estimated 15-month schedule for implementing the above scope of work. This schedule assumes a kick-off date during September 2019.



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Task No.	Task Name	Duration	Start	Finish
1	Kickoff Meeting	0	9/4/2019	9/4/2019
2	Project Description and Data Request	6 weeks	9/5/2019	10/17/2019
3	ESA prepares a NOP and NOC	6 weeks	9/5/2019	10/17/2019
4	30-day Scoping Period and Public Meeting	30 days	10/18/2019	11/18/2019
5	Technical Reports	8 weeks	10/18/2019	12/13/2019
6	Prepare Administrative Draft SEIR	16 weeks	11/19/2019	3/10/2020
	Agency Review of ADSEIR	3 weeks	3/11/2020	4/1/2020
7	Prepare Screencheck Draft SEIR	6 weeks	4/2/2020	5/14/2020
	Agency Review of Screencheck DSEIR	2 weeks	5/15/2020	5/29/2020
8	Prepare Public Draft SEIR, NOA, and NOC	2 weeks	6/1/2020	6/15/2020
9	45-day Draft SEIR Review and Public Meeting	45 days	6/16/2020	7/31/2020
10	Prepare Final SEIR and Response to Comments	8 weeks	8/3/2020	9/28/2020
11	Prepare Findings, SOC, and NOD	3 weeks	9/29/2020	10/20/2020
12	Prepare MMRP	3 weeks	9/29/2020	10/20/2020

Please do not hesitate to contact Jennifer Jacobus at 213-599-4300 if you have any questions about our scope of work or level of effort. We appreciate the opportunity to propose on this effort and to continue to support the development of IRWD and Rosedale's cooperative groundwater banking activities in Kern County.

Sincerely,

Tom Barnes
Vice President
Director, Southern California Water Practice Group

Jennifer Jacobus
Senior Managing Associate, Southern California Water Practice Group

Table 1: Cost Proposal
ESA Labor Detail and Expense Summary

Employee Names															H. Oseguede					
															G. Jafolla	S. Hamphill				
															J. Anderson	G. Gluck	VPT			
Labor Category																				
Senior Director II	Director III	Director II	Director I	Managing Associate III	Managing Associate II	Managing Associate I	Senior Associate II	Senior Associate I	Associate III	Associate II	Associate I	Subtotal	Project Technician III	Project Technician II	Project Technician I	Subtotal	Total Hours	Labor Price		
Task #	Task Name/Description	\$ 280	\$ 240	\$ 228	\$ 210	\$ 208	\$ 190	\$ 176	\$ 160	\$ 160	\$ 135	\$ 125	\$ 106	\$ 120	\$ 100	\$ 85				
1	Project Initiation and Management																			
	Kickoff meeting/Outline/Data request	2			8						8			\$ 3,320			\$ -	18.00 \$ 3,320		
	Project Meetings (monthly)	4			15						15			\$ 6,295			\$ -	34.00 \$ 6,295		
	Project Management	4			72						36			\$ 21,100	8		\$ 600	116.00 \$ 21,700		
2	Project Description				24						40		4	\$ 10,850	8	8	\$ 1,760	84.00 \$ 12,620		
3	NOI and NOC				8						24		16	\$ 5,600	2	8	\$ 1,040	58.00 \$ 7,640		
4	Public Scoping				20						32		16	\$ 10,700	4	4	\$ 880	76.00 \$ 11,080		
5a	Bio Resources Tech Report		16		2	32				100			32	\$ 29,800	12	4	\$ 1,840	198.00 \$ 31,680		
5b	Cultural Resources Tech Report	4			8	80			80	64	16		54	\$ 47,380	20	4	\$ 7,390	388.00 \$ 54,770		
5c	Palaeontological Resources Tech Report					4			4				12	\$ 2,950	4		\$ 480	24.00 \$ 3,430		
6	Admin Draft SEIR																			
	Aesthetics										2		32	\$ 3,630	4		\$ 480	38.00 \$ 4,110		
	Air Quality			4								40		\$ 5,900			\$ -	44.00 \$ 5,900		
	Biological Resources		8			12		8		24				\$ 9,380	8		\$ 960	60.00 \$ 10,340		
	Cultural Resources	1				8			24					\$ 5,760			\$ -	33.00 \$ 5,760		
	Geology, Soils, and Mineral Resources				1	2	4		4		24			\$ 5,275	8		\$ 960	43.00 \$ 6,235		
	GHG and Energy				4				24					\$ 4,740			\$ -	28.00 \$ 4,740		
	Hazards and Hazardous Materials						4				36			\$ 5,845	4		\$ 480	45.00 \$ 6,325		
	Hydrology and Water Quality			16	20						80			\$ 15,900	8		\$ 960	104.00 \$ 16,860		
	Land Use, Agriculture, Forestry										8		32	\$ 4,440	8		\$ 960	48.00 \$ 5,400		
	Noise			4									32	\$ 4,950	2		\$ 240	38.00 \$ 5,190		
	Transportation					2			24					\$ 4,250	4		\$ 480	30.00 \$ 4,730		
	Tribal Cultural Resources	2			8				8					\$ 3,480			\$ -	18.00 \$ 3,480		
	Utilities, Service Systems											8	16	\$ 2,680			\$ -	24.00 \$ 2,680		
	Wildlife												4	\$ 420			\$ -	4.00 \$ 420		
	Alternatives				16			24						\$ 7,560	2		\$ 240	42.00 \$ 7,800		
	Cumulative Effects				8						8		16	\$ 4,440	2		\$ 240	34.00 \$ 4,680		
	Growth Inducement							16						\$ 2,800			\$ -	16.00 \$ 2,800		
	CEQA Plus Requirements/Environmental Justice										16		20	\$ 4,260			\$ -	36.00 \$ 4,260		
	QA/QC, Meetings, Production, Word Processing	4			32						24		8	\$ 11,920		16	\$ 1,600	84.00 \$ 13,520		
7	Prepare Screencheck Draft SEIR	2	4	4	24	4		4			40	12	24	\$ 18,400	8	8	\$ 1,760	134.00 \$ 20,160		
8	Prepare Public Draft SEIR, NOI, and NOC				16						24		8	\$ 7,440	4	8	\$ 1,280	80.00 \$ 8,720		
9	Public Meeting				20						32		16	\$ 10,200	4	2	\$ 680	74.00 \$ 10,880		
10	Final SEIR and Response to Comments	2	8	8	32	8		24			40		16	\$ 23,920		4	\$ 400	142.00 \$ 24,320		
11	Prepare Findings, SOC, NOD	2			8						16		24	\$ 6,920		2	\$ 200	52.00 \$ 7,120		
12	Mitigation Monitoring Compliance and Reporting Program				4						16		8	\$ 3,640		2	\$ 200	30.00 \$ 4,040		
														\$ -			\$ -	- \$ -		
														\$ -			\$ -	- \$ -		
Total Hours		27	38	42	337	140	8	76	148	178	617	180	314	2013	118	76	54	248	2,259	
Total Labor Costs		\$ 7,560	\$ 8,640	\$ 9,450	\$ 70,770	\$ 28,700	\$ 1,520	\$ 13,300	\$ 23,880	\$ 28,700	\$ 69,795	\$ 23,750	\$ 32,970	\$ 216,835	\$ 13,920	\$ 7,600	\$ 4,580	\$ 26,110		\$ 342,945
Percent of Effort - Labor Hours Only		1.2%	1.6%	1.9%	14.9%	6.2%	0.4%	3.4%	6.6%	7.9%	22.9%	8.4%	13.9%	89.1%	5.1%	3.4%	2.4%	10.9%	100.0%	
Percent of Effort - Total Project Cost		2.1%	2.4%	2.6%	19.7%	8.0%	0.4%	3.7%	6.6%	7.4%	19.4%	6.6%	9.2%		3.9%	2.1%	1.3%			95.4%

ESA Labor Cost	\$ 342,945
ESA Non-Labor Expenses	
Reimbursable Expenses (see Attachment A for detail)	\$ 16,360
ESA Equipment Usage (see Attachment A for detail)	\$ 300
Subtotal ESA Non-Labor Expenses	\$ 16,660

PROJECT TOTAL

\$ 359,595

Attachment A

Cost Proposal: ESA Non-Labor Expenses Summary

Reimbursable Expenses

Project Supplies	\$	-
Printing/Reproduction	\$	1,800
Document and Map Reproductions (CD + Digital Photo)	\$	100
Postage and Deliveries	\$	250
Mileage	\$	2,100
Vehicle Rental	\$	300
Lodging	\$	3,700
Airfare	\$	-
Other Travel Related	\$	1,500
Newspaper Ads for NOP and Draft EIR - 2 newspapers	\$	1,500
SSJVIC, LACM Records Search Fees	\$	1,600
CEQA CDFW Filing Fee; County Filing Fees	\$	3,500
Subtotal Reimbursable Expenses	\$	16,350
0% Fee on Reimbursable Expenses	\$	-
Total Reimbursable Expenses	\$	16,350

ESA Equipment Usage

General Equipment:

Company Vehicle Usage	\$	-
HP Plotter	\$	-
Computer Time (GIS)	\$	-
Trimble GPS	\$	300
Tablet GPS	\$	-
Laser level	\$	-
Garmin GPS or equivalent	\$	-
Laptop Computers	\$	-
LCD Projector	\$	-
Noise Meter	\$	-
Total Equipment Usage Costs	\$	300

August 19, 2019

Prepared by: R. Bennett / K. Welch

Submitted by: F. Sanchez / P. Weghorst

Approved by: Paul A. Cook



SUPPLY RELIABILITY PROGRAMS COMMITTEE

AMENDMENT NO. 1 TO LANDOWNER AGREEMENT FOR SUSTAINABLE GROUNDWATER MANAGEMENT ACT COMPLIANCE

SUMMARY:

In 2017, the Kern Groundwater Authority (KGA) was formed in pursuit of compliance with the requirements of the Sustainable Groundwater Management Act (SGMA). Rosedale-Rio Bravo Water Storage District is a member of the KGA and is preparing a chapter of the KGA's Groundwater Sustainability Plan (GSP) that will cover Rosedale's service area. In March 2019, the IRWD Board approved a Landowner Agreement and a Planning Agreement with Rosedale that would provide SGMA coverage for IRWD's Kern County water banking properties by incorporation into Rosedale's chapter of the GSP.

Due to recent jurisdictional changes in Kern County, Rosedale is requesting that all un-districted landowners execute an amendment to the Landowner Agreement that will increase the landowners' indemnity obligations and limit the ability to contest the actions of agencies with jurisdiction. At the Committee meeting, IRWD's special legal counsel from Kronick, Moskovitz, Tiedemann & Girard (KMTG) will provide details and opinion related to Amendment No. 1 to the Landowner Agreement. Staff recommends that the Committee discuss the content of Amendment No. 1 and the information provided at the meeting.

BACKGROUND:

In September 2014, Governor Brown signed three bills that comprised SGMA (SB 1168, AB 1739 and SB 1319). The intent of SGMA is to require local and regional agencies to develop and implement sustainable groundwater management plans through the formation of Groundwater Sustainability Agencies (GSAs). The KGA, which includes Rosedale and 12 other agencies, was formed as a local GSA to comply with SGMA. The KGA agencies must provide SGMA coverage within their respective agency boundaries. By default, the County of Kern has SGMA jurisdiction over un-districted areas.

SGMA Coverage for IRWD Lands:

IRWD's Strand and Stockdale West properties are located outside of Rosedale's boundary and therefore are considered un-districted or "white space" areas within the Kern County Sub-basin. Unless un-districted lands are extended SGMA coverage through a GSP, the lands would by default fall within the County of Kern's jurisdiction for SGMA purposes. Rosedale offered to provide SGMA coverage for un-districted landowners including IRWD's Strand and Stockdale West properties by including these areas within its chapter of the Kern Groundwater Authority's GSP.

On March 11, 2019, the IRWD Board authorized the General Manager to execute two agreements with Rosedale. The first, a Landowner Agreement, allows IRWD's Strand and Stockdale West properties to be included within Rosedale's chapter of the GSP. The second, a Planning Agreement, limits selected parts of the Landowner Agreement that are not appropriate for IRWD's water banking properties.

Kern County Water Agency Jurisdiction:

In April 2019, the County of Kern withdrew from its responsibility over the white space areas. In response to this withdrawal, the Kern County Water Agency (KCWA) has agreed to be the jurisdictional authority for un-districted lands within Kern County. In accepting this authority, the KCWA is requiring that all members of the KGA, including owners of un-districted lands that have signed the Landowner Agreement, provide additional indemnifications and a covenant not to sue or contest. At the Committee meeting, IRWD's special legal counsel from KMTG will provide details and opinion related to Amendment No. 1 to the Landowner Agreement, which is provided as Exhibit "A". Staff recommends that the Committee discuss the content of Amendment No. 1 and the information provided at the Committee meeting.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

RECOMMENDATION:

That the Committee discuss the content of Amendment No. 1 to the Landowner Agreement for Sustainable Groundwater Management Act compliance and the information provided at the meeting.

LIST OF EXHIBITS:

Exhibit "A" – Amendment 1 to the Sustainable Groundwater Management Act Management Agreement with Rosedale-Rio Bravo Water Storage District (Landowner Agreement)

RECORDING REQUESTED BY AND
WHEN RECORDED, MAIL TO:

ROSEDALE-RIO BRAVO WATER
STORAGE DISTRICT
P.O. Box 20820
Bakersfield, CA 93390-0820

SPACE ABOVE THIS LINE FOR RECORDER'S USE

**RECORDING FOR THE BENEFIT OF A GOVERNMENT AGENCY
NO FEE PURSUANT TO CA. GOV'T CODE SECTION 6103**

Kern County APN's: [INSERT SPECIFIC APN(s)]

AMENDMENT NO. 1

to

**Sustainable Groundwater Management Act Management
Agreement with
Rosedale-Rio Bravo Water Storage District**

This Amendment No. 1 to Memorandum of Agreement - Sustainable Groundwater Management Act Management Agreement with Rosedale-Rio Bravo Water Storage District is made and entered into, by and among the Rosedale-Rio Bravo Water Storage District, ("District") and the landowner identified by its name and signature below ("Landowner"). District and Landowner are sometimes each individually referred to herein as a "Party" and collectively as the "Parties."

RECITALS

WHEREAS, Landowner is an owner of certain real property in Kern County, California ("Landowner Land"), which property is generally identified by its Kern Assessor's Parcel Number(s) listed above and along with the Landowner's signature on this document, and which property is located outside of the District's boundaries.

WHEREAS, Landowner desires the District's assistance with respect to compliance with the Sustainable Groundwater Management Act ("SGMA");

WHEREAS, District and Landowner have agreed to the terms of a *Sustainable Groundwater Management Act Management Agreement* (dated May 31, 2018 and recorded on September 13, 2018 in the official records of Kern County as Document No. 000218120706) in order that the District may provide Landowner with assistance with respect to SGMA compliance;

WHEREAS, District and Landowner desire to amend the *Sustainable Groundwater Management Act Management Agreement* by this Amendment No. 1.

WHEREAS, this Amendment No. 1 shall be recorded in the official records of Kern County, in order that third parties may have notice of the respective rights and obligations of the District and Landowner with respect to SGMA compliance and the Landowner Land.

NOW, THEREFORE, in consideration of the foregoing Recitals and all of the terms and conditions of the above-referenced *Sustainable Groundwater Management Act Management Agreement*, it is agreed by and between the Parties that said *Sustainable Groundwater Management Act Management Agreement* shall be amended as follows and all other terms of said agreement not amended hereby shall remain in full force and effect:

I. Section 16 is amended to read as follows:

16. Indemnification. Each Landowner (“Indemnifying Party”) shall protect, defend, indemnify and hold harmless the District, the Kern Groundwater Authority (“KGA”), and the KGA members along with their respective directors, officials, officers, managers, employees, contractors and agents (“Indemnified Party”) from and against all liabilities, obligations, claims, damages, penalties, causes of action, costs and expenses (including, without limitation, attorneys’ fees and expenses) imposed upon, incurred by, or asserted against an Indemnified Party arising out of, resulting from, or in connection with (a) any indemnification obligation undertaken by the District to the KGA with respect to the Landowner or the Landowner Land, or (b) any action taken or omitted to be taken by the Indemnifying Party under this Agreement, including but not limited to the following: (i) the actions or omissions by the Landowner or Landowner’s affiliates, members, managers, employees, contractors and agents related to this Agreement and, the KGA GSP, or SGMA; (ii) Landowner or Landowner’s affiliates, members, managers, employees, contractors and agents’ violation of any applicable laws or regulations; or (iii) the failure on the part of the Landowner or Landowner’s affiliates to perform or comply with any of the terms of this Agreement, or (iv) the inclusion of the Landowner Land in the District’s GSP Chapter, provided, however, that such indemnity shall not extend to any such suit, claim, or damage to the extent caused solely by the negligent or wrongful acts or omissions of any Indemnified Party. The indemnification provisions in this section shall survive expiration or termination of this Agreement, and shall not be restricted to insurance proceeds, if any, received by the District or its directors, officials, officers, managers, employees, contractors and agents.

II. Section 18 shall be added to the Agreement as follows:

18 Covenant Not to Sue or Contest. In consideration of the District’s inclusion of Landowner Land into the District’s GSP Chapter, Landowner shall not (1) sue or take any judicial or administrative action against the District, the KGA, or any other KGA member for any claims related to the KGA GSP or SGMA, or (2) contest or challenge, directly or indirectly, the District GSP Chapter or KGA GSP, as adopted and as may be amended. The Landowner acknowledges and agrees that initiation of a lawsuit, judicial, or administrative action against the District, KGA, or other KGA members for claims related to the KGA GSP or SGMA will render the Landowner initiating the action a Defaulted Landowner (as defined by Section 4 of this Agreement).

[SIGNATURES AND PROPERTY IDENTIFICATION ON THE FOLLOWING PAGE]

[PROPERTY OWNER NAME]

APN(s): [Insert Applicable APN(s)]

Signature

By: _____
Printed Name

Title: _____

Dated: _____

DISTRICT:

Signature

By: Eric Averett, General Manager

Dated: _____

Signature

By: _____
Printed Name

Title: _____

Date: _____

TEMPLATE

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August 19, 2019
Prepared by: C. Compton
Submitted by: F. Sanchez / P. Weghorst
Approved by: Paul A. Cook



SUPPLY RELIABILITY PROGRAMS COMMITTEE

PROPOSED IRWD WATER RESILIENCE PORTFOLIO POLICY PRINCIPLES

SUMMARY:

Irvine Ranch Water District policy position papers are reviewed periodically to determine if the positions are still valid, need to be revised or if new papers should be written on different issues. In April 2019, Governor Gavin Newsom signed Executive Order N-10-19. The executive order directed the California Natural Resources Agency, the California Environmental Protection Agency, and the California Department of Food and Agriculture to prepare a water resilience portfolio that identifies the key priorities for the Administration's water portfolio moving forward. Based on the discussions taking place in Sacramento and around the state regarding what should be included in the Water Resilience Portfolio, staff recommends that the Committee discuss the content of the proposed IRWD Water Resilience Portfolio Policy Principles with the intent to bring a proposed "IRWD Water Resilience Portfolio Policy Principles" paper to the Board on August 26, 2019.

BACKGROUND:

In 2004, IRWD began producing policy white papers on topics of particular interest to IRWD. Because of IRWD's standing in the water industry, the opinion of the District is regularly solicited on issues of vital interest to the industry and the community. In order to keep these position papers current and usable for explaining the District's position, staff occasionally recommends that the Board review the papers and when appropriate, incorporate revisions or adopt new papers.

On April 29, 2019, Governor Gavin Newsom signed Executive Order N-10-19, which is attached as Exhibit "A". The order directed three State agencies – the California Natural Resources Agency, the California Environmental Protection Agency, and the California Department of Food and Agriculture – to develop a comprehensive strategy to build a climate-resilient water system and ensure healthy waterways. The agencies are to develop a Water Resilience Portfolio that identify the key priorities for the Administration's water portfolio moving forward.

As part of the process, the State agencies are to inventory and assess the following:

- Existing demand for water on a statewide and regional basis, and available water supply to address this demand;
- Existing water quality of our aquifers, rivers, lakes and beaches;
- Projected water needs in coming decades for communities, economy and environment;
- Anticipated impacts of climate change to our water systems, including growing drought and flood risks, and other challenges to water supply reliability;

- Work underway to complete voluntary agreements for the Sacramento and San Joaquin river systems regarding flows and habitat;
- Current planning to modernize conveyance through the Bay-Delta with a new single tunnel project;
- Expansion of the state's drinking water program to ensure all communities have access to clean, safe and affordable drinking water; and
- Existing water policies, programs, and investments within state government.

The Water Resilience Portfolio, per the executive order, is to incorporate the following principles:

- Prioritize multi-benefit approaches that meet multiple needs at once;
- Utilize natural elements such as forests and floodplains;
- Embrace innovation and new technologies;
- Encourage regional approaches among water users sharing watersheds;
- Incorporate successful approaches from other parts of the world;
- Integrate investments, policies and programs across state government; and
- Strengthen partnerships with local, federal and tribal governments, water agencies and irrigation districts, and other stakeholders.

Given that discussions are taking place regarding the Water Resilience Portfolio, staff is proposing that the Board adopt a policy principle paper on the Water Resilience Portfolio to guide the District's advocacy efforts.

FISCAL IMPACTS:

Not applicable.

ENVIRONMENTAL COMPLIANCE:

None.

RECOMMENDATION:

That the Committee discuss the content of the proposed IRWD Water Resilience Portfolio Policy Principles, with the intent to bring a proposed "IRWD Water Resilience Portfolio Policy Principles" paper to the Board on August 26, 2019.

LIST OF EXHIBITS:

Exhibit "A" – Executive Order N-10-19

EXHIBIT "A"
EXECUTIVE DEPARTMENT
STATE OF CALIFORNIA

Executive Order N-10-19

WHEREAS, water is a human right, and is central to California's strength and vitality; and

WHEREAS, we face a range of existing water challenges, including unsafe drinking water across the state, major flood risks that threaten public safety, severely depleted groundwater aquifers, agricultural communities coping with uncertain water supplies, and native fish populations threatened with extinction; and

WHEREAS, climate change is having a profound impact on water and other resources, making the climate warmer and more variable, which reduces mountain snowpack, intensifies drought and wildfires, and drives shorter, more intense wet seasons that worsen flooding; and

WHEREAS, California continues to grow, with our population projected to grow to 50 million over the next several decades and our economic activities expanding as the world's fifth largest economy; and

WHEREAS, the future prosperity of our communities and the health of our environment depend on tackling pressing current water challenges while positioning California to meet broad water needs through the 21st century; and

WHEREAS, many state programs, policies and investments are being implemented, such as the Sustainable Groundwater Management Act and new urban water efficiency standards, that can be built upon to meet these evolving challenges; and

WHEREAS, providing clean, dependable water supplies to communities, agriculture, and industry while restoring and maintaining the health of our watersheds is both necessary and possible; and

WHEREAS, achieving this goal requires a broad portfolio of collaborative strategies between government, sovereign tribes, local communities, water agencies, irrigation districts, environmental conservationists, academia, business and labor leaders, and other stakeholders.

NOW, THEREFORE, I, GAVIN NEWSOM, Governor of the State of California, by virtue of the power and authority vested in me by the Constitution and the statutes of the State of California, do hereby issue this Order to become effectively immediately.

IT IS HEREBY ORDERED THAT:

1. The California Natural Resources Agency, the California Environmental Protection Agency, the California Department of Food and Agriculture, in consultation with the Department of Finance, shall together prepare a water resilience portfolio that meets the needs of California's communities, economy, and environment through the 21st century.

These agencies will reassess priorities contained within the 2016 California Water Action Plan, update projected climate change impacts to our water systems, identify key priorities for the administration's water portfolio moving forward, and identify how to improve integration across state agencies to implement these priorities.

2. These agencies shall first inventory and assess:
 - a. Existing demand for water on a statewide and regional basis and available water supply to address this demand.
 - b. Existing water quality of our aquifers, rivers, lakes and beaches.
 - c. Projected water needs in coming decades for communities, economy and environment.
 - d. Anticipated impacts of climate change to our water systems, including growing drought and flood risks, and other challenges to water supply reliability.
 - e. Work underway to complete voluntary agreements for the Sacramento and San Joaquin river systems regarding flows and habitat.
 - f. Current planning to modernize conveyance through the Bay Delta with a new single tunnel project.
 - g. Expansion of the state's drinking water program to ensure all communities have access to clean, safe and affordable drinking water.
 - h. Existing water policies, programs, and investments within state government.
3. This water resilience portfolio established by these agencies shall embody the following principles:
 - a. Prioritize multi-benefit approaches that meet multiple needs at once.
 - b. Utilize natural infrastructure such as forests and floodplains.
 - c. Embrace innovation and new technologies.
 - d. Encourage regional approaches among water users sharing watersheds.
 - e. Incorporate successful approaches from other parts of the world.
 - f. Integrate investments, policies and programs across state government.
 - g. Strengthen partnerships with local, federal and tribal governments, water agencies and irrigation districts, and other stakeholders.

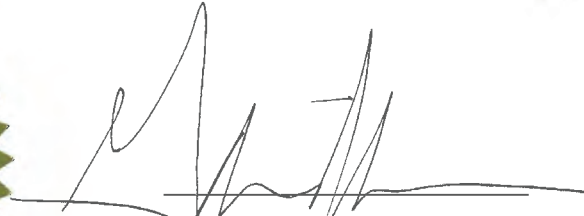
4. These agencies shall conduct extensive outreach to inform this process, including to other state agencies, sovereign tribes, federal and local government, local water agencies, agricultural groups, environmental justice and environmental conservation organizations, local and statewide business leaders, academic experts and other stakeholders.

IT IS FURTHER ORDERED that as soon as hereafter possible, this Order shall be filed with the Office of the Secretary of State and that widespread publicity and notice shall be given to this Order.

This Order is not intended to, and does not, create any rights or benefits, substantive or procedural, enforceable at law or in equity, against the State of California, its departments, agencies, or other entities, its officers or employees, or any other person.

IN WITNESS WHEREOF I have hereunto set my hand and caused the Great Seal of the State of California to be affixed this 29th day of April 2019.




GAVIN NEWSOM
Governor of California

ATTEST:



ALEX PADILLA
Secretary of State