



<http://www.sbgroundwatercouncil.org/>

GROUNDWATER COUNCIL

ZOOM MEETING INFORMATION

<https://sbvmwd.zoom.us/j/85651546434>

Meeting ID: 856 5154 6434

Passcode: 3802020

Dial in at:

+1 669 900 6833 US



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GROUNDWATER COUNCIL MEETING AGENDA

MONDAY, AUGUST 9, 2021 – 10:00 AM

CALL TO ORDER

ROLL CALL FOR QUORUM

Bear Valley Mutual Water Company (0), City of Colton (3), City of Loma Linda (9), City of Rialto (12), East Valley Water District (9), Fontana Union Water Company (3), Loma Linda University (1), San Bernardino Municipal Water Department (54), San Bernardino Valley Municipal Water District (1), San Bernardino Valley Water Conservation District (0), West Valley Water District (8), Yucaipa Valley Water District (0)

INTRODUCTIONS

1. APPROVAL OF MINUTES

- 1.1 *April 12, 2021 Meeting*
[SBB GC Meeting Minutes 04122021](#)

2. NEW BUSINESS

- 2.1 *Consider appointing a representative from the GC to the Active Recharge Transfer Projects (ARTP) Policy Committee*
- 2.2 *Presentation of the Draft 2020 San Bernardino Basin Groundwater Council Annual Report*
[Draft 2020 SBB Groundwater Council Annual Report](#)

3. OLD BUSINESS

4. OTHER BUSINESS

5. SET DATE FOR NEXT MEETING

The next regularly scheduled Groundwater Council meeting will be on October 11, 2021, at 10:00am.

6. ADJOURNMENT

**MINUTES
OF
THE
GROUNDWATER COUNCIL**

April 12, 2021

Registered Guests:

Daniel Cozad, San Bernardino Valley Water Conservation District

John Mura, East Valley Water District

Jeff Noelte, East Valley Water District

Tom Crowley, City of Rialto

Miguel Guerrero, San Bernardino Municipal Water Department

Steve Miller, San Bernardino Municipal Water Department

Wen Huang, San Bernardino Valley Municipal Water District

Bob Tincher, San Bernardino Valley Municipal Water District

Matthew Howard, San Bernardino Valley Municipal Water District

Adekunle Ojo, San Bernardino Valley Municipal Water District

Cindy Saks, San Bernardino Valley Municipal Water District

Melissa Zoba, San Bernardino Valley Municipal Water District

Jarb Thaipejr, City of Loma Linda

Cecilia Griego, City of Redlands

Katelyn Scholte, San Bernardino Valley Water Conservation District

Linda Jadeski, West Valley Water District

Joseph Zoba, Yucaipa Valley Water District

Jennifer Ares, Yucaipa Valley Water District

The Groundwater Council meeting was called to order by Tom Crowley at 10:03 a.m. by teleconference.

Roll Call was taken and there was a quorum for voting purposes. The meeting proceeded with the following agenda items.

Agenda Item 1. Approval of Minutes.

1. January 11, 2021, Meeting.

Bob Tincher moved to approve the minutes of the January 11, 2021, Groundwater Council meeting. Daniel Cozad seconded. The motion was adopted unanimously by a non-roll-call vote.

Agenda Item 2. New Business.

2.1 Discuss Full Participation Plan - SBVWCD Groundwater Charge Component Approach

Daniel Cozad provided a presentation on the plan to achieve full participation in the Groundwater Council. Mr. Cozad's provided an overview of the Groundwater Council, the sustainability/replenishment component of the Groundwater Charge, and the Groundwater Charge rate process. Mr. Cozad presented the Groundwater Council letter requesting the SBVWCD Board of Directors consider the development of a rate charge component of the existing Groundwater Charge to achieve equity and to fairly allocate costs for the existing "pool" of non-council producers. Mr. Cozad discussed the recent additions to the EAM to include inside and outside "pool" of non-council producers located in the SBVWCD service area, which includes a sustainability rate of \$22.04 dollars per acre-foot, phased in over 5 years. Mr. Cozad's provided the list of non-council producers in the SBVWCD service area and what the phased costs would be for each non-council members. Mr. Cozad outlined the Groundwater Charge process with the next step consisting of a public meeting on April 14, 2021 and public hearing meeting on April 28, 2021.

2.1a San Bernardino County Consideration of Groundwater Council Membership

Bob Tincher provided an update on the recent meeting with the San Bernardino County regarding joining the Groundwater Council. Mr. Tincher met with Steve Samaras and provided an overview of the Groundwater Council, which was well received by the County staff. Mr. Tincher will be scheduling a meeting in the next couple of weeks to discuss the next steps to have the San Bernardino County to take this item to the Board of Supervisors.

2.1b Southern California Edison Consideration of Groundwater Council Membership

Daniel Cozad provided an update on the recent meeting with the Southern California Edison. SBVWCD staff coordinated a meeting with Bruce McKenzie and the Engineering Support Division of Southern California Edison and provided an overview of the Groundwater Council. Mr. Cozad reported that the meeting went well and are currently awaiting to hear back from Southern California Edison.

2.2 Discussion of WVWD Credit for Recharged Water

Linda Jadeski provided a presentation of WVWD Lytle Creek recharge operations. The presentation included a review of WVWD operational mechanism to recharge Lytle Creek surface water when there are large spikes in turbidity during storms. The WVWD Roemer Treatment Plant has to turn out Lytle Creek surface water from the metering building when turbidity is too high to treat at the Roemer Treatment Plant. The highly turbid water is discharged from WVWD's afterbay metering building to the recharge ponds in Lytle Creek. Linda Jadeski explained the proration and diversion of Lytle Creek water between the City of Rialto, WVWD and the City of San Bernardino. Linda Jadeski provided recent examples in 2020, where WVWD had to turn out highly turbid Lytle Creek Water to the recharge ponds in

Lytle Creek based off of data provided from WVWD operator logs. Linda Jadeski provided a summary of the total recharge water discharged into the recharge ponds in 2020 of 37.50 acre-feet and the distribution of credits between WVWD, the City of Rialto, and the City of San Bernardino for the Groundwater Council to consider this diverted water recharged as a credit in future year's EAM.

Daniel Cozad stated that this is very similar to the recharge operations of East Valley Water District's diverted Santa Ana River water into the SBVWCD recharge ponds, which is included in the EAM as a credit for recharge. Tom Crowley discussed the operations and maintenance of the recharge basins, including who would pay for the costs for operation and maintenance costs.

Daniel Cozad made a motion to the Groundwater Council to include this recharge in next years EAM as a credit for WVWD, the City of Rialto, and the City of San Bernardino. Miguel Guerrero seconded this motion. The motion was adopted unanimously by a non-roll call vote.

2.3 Consider Re-adoption of FY21-22 EAM Budget

Katelyn Scholte provided an update on the FY21-22 EAM Budget. The update to the FY21-22 Budget included the addition of the City of Redlands to the Groundwater Council and the split between the inside and outside the SBVWCD service area line items in the EAM. An additional credit was added to SBVMWD to include the 34,000 AF of recharge water purchased in 2019 for non-members, which is now included as part of the EAM Budget. As the City of Redlands and others join the council, the purchased water will shift from the Valley District to these new members.

Jarb Thaipejr made a motion to re-adopt and approve the FY21-22 EAM Budget. Jeff Noelte seconded this motion. The motion was adopted unanimously by a non-roll call vote.

2.4 Update on State Water Project Supplies for 2021

Bob Tincher provided an update to the SWP Table A allocation, which was recently reduced from 10% down to 5%. Mr. Tincher stated that the priority of imported SWP is to direct deliveries to treatment plants and the focus this year is to meet the direct delivery demands. Mr. Tincher discussed that the payments made towards the Groundwater Council in this fiscal year will go into a specific fund at SBVMWD to purchase SWP in the future when Table A allocations increase and supplies are available.

Agenda Item 3. Old Business

None

Agenda Item 4. Other Business.

4.1 Report from the Groundwater Council Budget Committee

Daniel Cozad reported that the Groundwater Council Budget Committee is currently developing a financial report that will be included in the Annual Report.

4.2 Report from the Groundwater Council Operations Committee

Jeff Noelte provided an update on the recent meeting of the Groundwater Council Operation Committee. The Operations Committee discussed the low Table A allocation and since there is no SWP available for recharge, there is no recommended operations plan for this year currently. Mr. Noelte stated if there is a small amount of SWP for the Groundwater Council to purchase and recharge this year, that the Operations Committee would be able to make decisions on small amounts of water without bringing the item to the entire Groundwater Council. Mr. Noelte stated this option will be brought back to the Groundwater Council at the future meeting and there is no recommendation at this time.

The next regularly scheduled Groundwater Council Meeting will be on June 14, 2021 at 10:00 a.m.

Agenda Item 4. Adjournment.

There being no further business, Chairman Crowley adjourned the meeting 11:03 a.m.

APPROVAL CERTIFICATION I hereby certify to approval of the foregoing Minutes of the Groundwater Council. _____ Secretary Date _____

Respectfully submitted,

Matthew Howard
Water Resources Senior Project Manager



San Bernardino Basin
Groundwater Council

2020
ANNUAL BASIN GROUNDWATER REPORT



Shared Resource. Shared Responsibility.



**Innovative Program
of the Year Award
(Small District Category):**

San Bernardino Valley Water
Conservation District and
its partners for its *Model of
Cooperation: How the San
Bernardino Basin Groundwater
Council Achieved Record
Recharge in 2019*

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Appendix A:
SBB Precipitation
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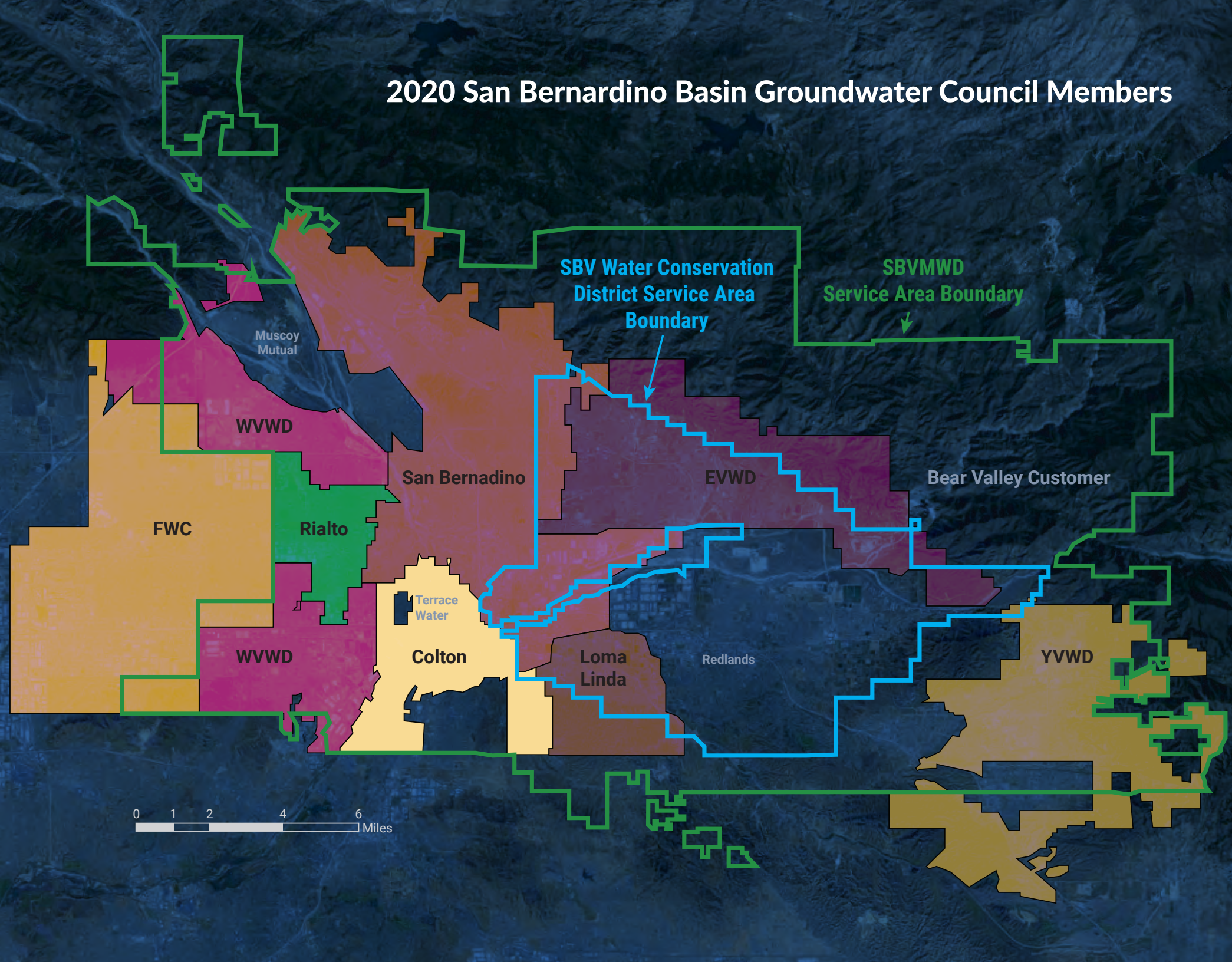
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Appendix B:
Balance Owed by
Pumpers Not Yet
in the GC

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Appendix C:
GC 2020
Delivery Plan

2020 San Bernardino Basin Groundwater Council Members



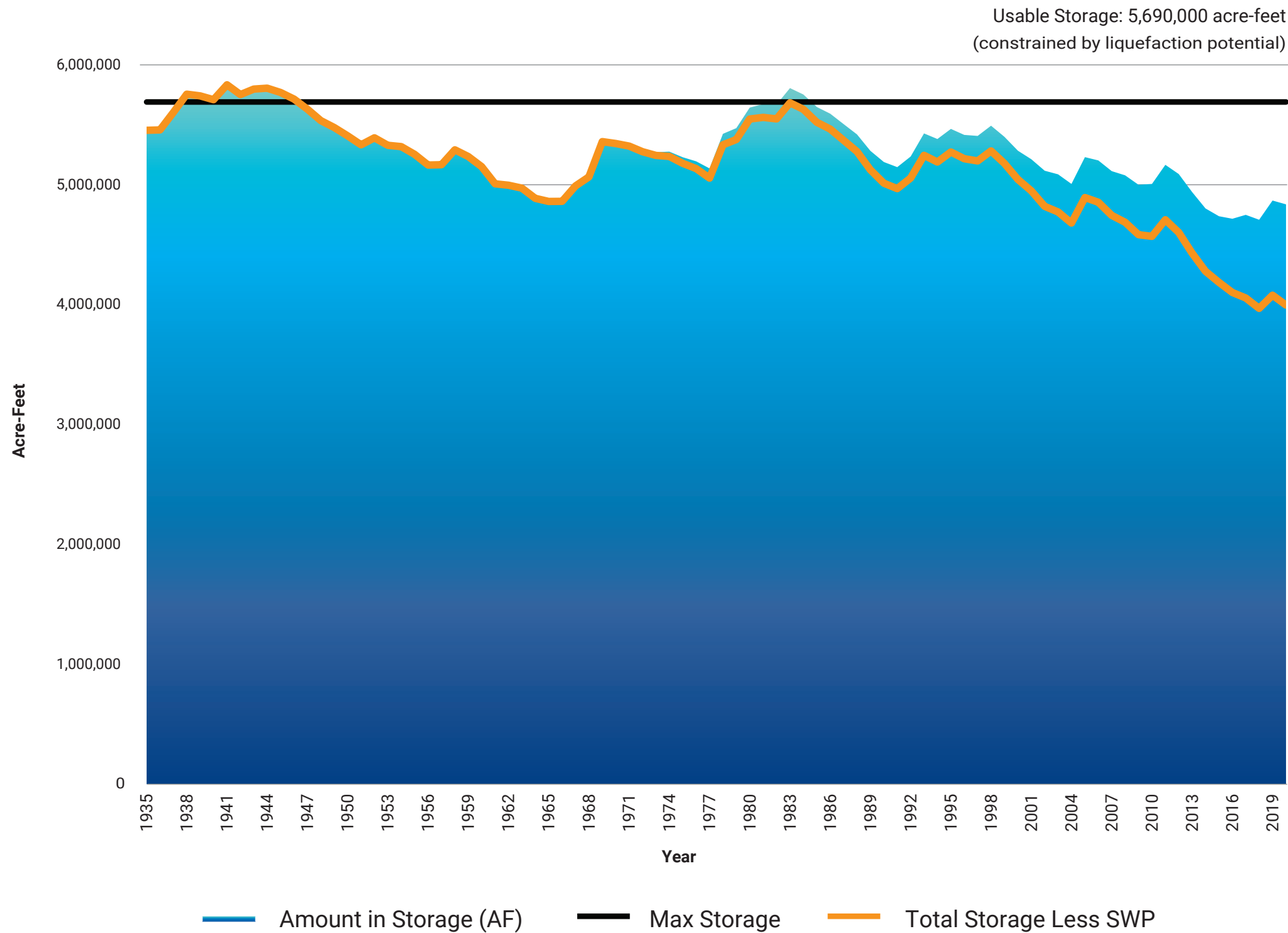
INTRODUCTION

The San Bernardino Basin Groundwater Council (GC) was formed in 2018 to cooperatively manage the San Bernardino Basin (SBB) to achieve the following general goals:

- » Ensure sustainable groundwater supply
- » Proactively manage the SBB
- » Prevent long-term groundwater overdraft

The general goals for the GC Annual Report are to report on the sustainability of the SBB, the amount paid by participants for imported water and operations and maintenance, and the actual water purchases and the operations and maintenance activities.

“THE REGION HAS BEEN EXPERIENCING AN EXTENDED DROUGHT SINCE AROUND 1998.”



BASIN SUSTAINABILITY

Basin Storage Level: 82% full

Despite drought conditions that began around 1998 (see Appendix A), the SBB is sustainable due to the positive influence of the GC and Valley District State Water Project (SWP) water purchases over the last couple of years.

“ DESPITE ONGOING DROUGHT CONDITIONS, THE SBB IS IN SUSTAINABLE CONDITION.”



EQUITABLE COST SHARING

The GC developed an Equitable Allocation Model to proportion the cost of imported water purchases by the GC and the operations and maintenance costs for the recharge. To avoid large swings in water costs, the GC decided to bill itself annually for the projected average amount of imported water needed in the future, as determined by the San Bernardino Valley Regional Urban Water Management Plan (RUWMP). Based on the 2015 update of the RUWMP, the future average need for supplemental water is 28,823 acre-feet. This amount may change based on updates to the RUWMP and based upon basin storage levels.

Should the SBB return to full, or get close to full, the GC may choose to suspend collecting money for SWP water on a temporary basis. Even if there is no SWP water available for the GC, it may still choose to bill itself in order to build up a cash reserve for future wet-year SWP water purchases when the water is most available.

The GC water cost is proportioned among the parties based upon their individual water

budget, which compares their demand to their supplies, including any investment they may have made in recycled water and/or surface water. Generally speaking, the agencies whose demands exceed supplies, pay the most. The Operations and Maintenance (O&M) costs are proportioned based upon the last five years of groundwater pumping, since those who pump the most are most reliant on the recharge.

The City of Redlands signed the GC Agreement in early 2021, which will be reflected in the 2021 Annual Report. Private water providers and well owners, Southern California Edison, and the County of San Bernardino have not yet signed the agreement and, collectively, they represent approximately 7% of the cost. These Parties that have not signed the agreement continue to accrue costs since the formation of the GC (see Appendix B). Some of these pumpers are within the boundaries of the San Bernardino Valley Water Conservation District (Conservation District) so they have been paying the O&M portion through the Conservation District's Groundwater Charge.

2020 SBB GC Agencies

City of Colton

City of Rialto

City of San Bernardino
Municipal Water
Department

City of Loma Linda

East Valley Water District

San Bernardino Valley
Municipal Water District

San Bernardino Valley
Water Conservation
District

Fontana Water Company

Yucaipa Valley Water
District

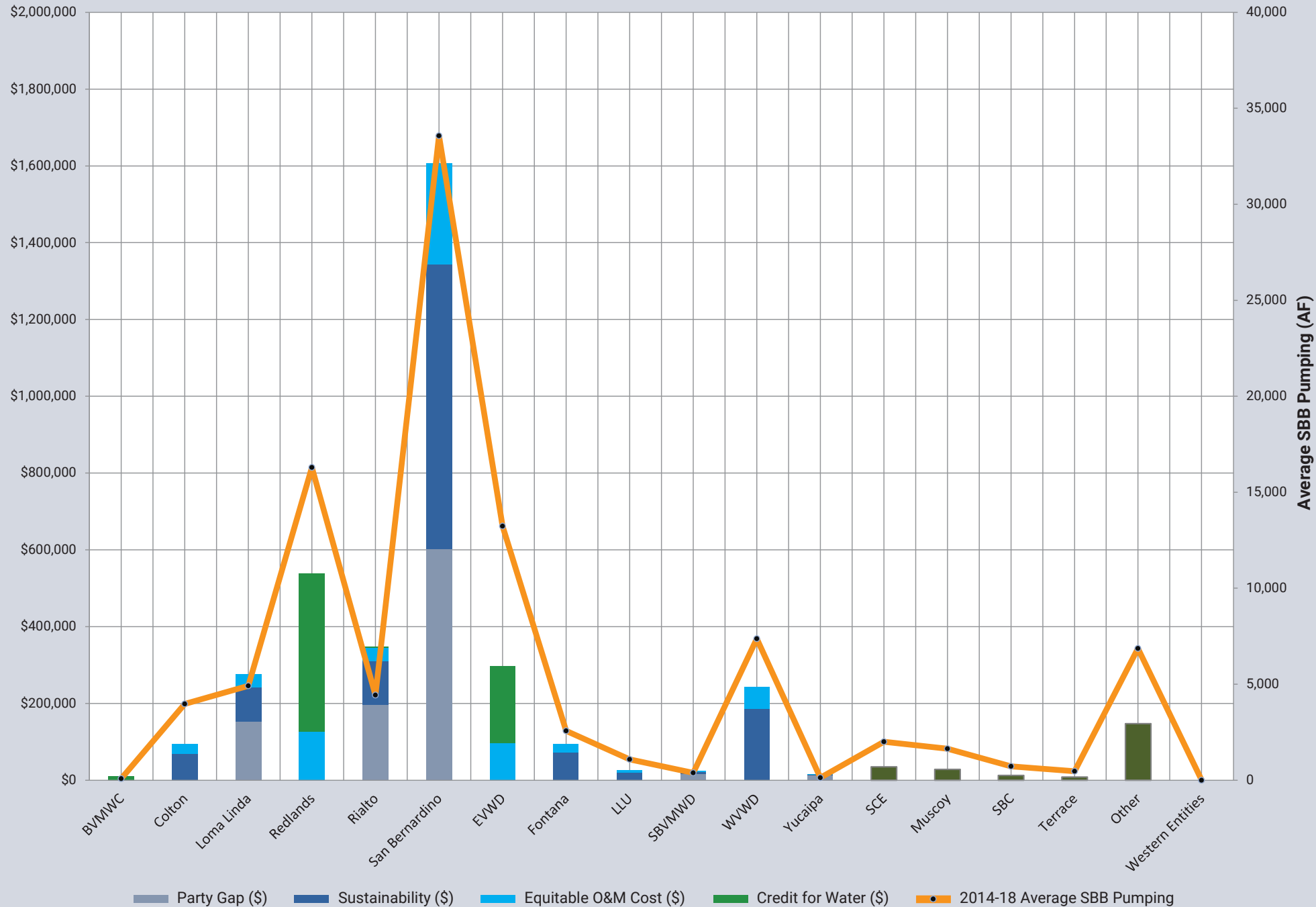
Loma Linda University

Bear Valley Mutual
Water Company

West Valley Water District



Approved GC EAM 2020-2021 Fiscal Year Annual O&M and SWP for Ultimate Sustainability (2040)



COSTS BY AGENCY IN THE SBB GC

Summary of SBB Groundwater Council Total Party Costs (FY 2019-2021)

AGENCY	TOTAL PARTY COSTS FY2019-2020	TOTAL PARTY COSTS FY2020-2021	COST INCREASE 2019-2020	VOTING WEIGHT 2020-21	PERCENT PUMPING IN SBB
Bear Valley Mutual Water Company	\$277	\$-	\$(277)	0.00%	0.01%
City of Colton	\$95,204	\$94,394	\$(810)	3.1%	2.1%
City of Loma Linda	\$268,988	\$275,428	\$6,440	7.8%	3.3%
City of Redlands	\$516,253	\$245,321	\$(270,932)	7.8%	14.4%
City of Rialto	\$176,324	\$345,698	\$169,374	10.4%	3.2%
City of San Bernardino	\$1,877,120	\$1,606,599	\$(270,521)	47.3%	26.2%
East Valley Water District	\$325,774	\$264,179	\$(61,595)	3.1%	8.6%
Fontana Union Water Company	\$80,315	\$94,852	\$14,537	3.5%	1.7%
Loma Linda University	\$24,935	\$25,677	\$742	0.9%	0.7%
San Bernardino Valley M.W.D.	\$8,006	\$24,329	\$16,323	0.0%	0.0%
West Valley Water District	\$68,503	\$242,657	\$174,155	15.9%	5.3%
Yucaipa Valley Water District	\$7,216	\$15,945	\$8,730	0.2%	0.1%
Total GC Parties:	\$3,448,912	\$3,235,078	\$(213,834)	100%	65.56%

GROUNDWATER BUDGET AND FINANCIAL REPORT

Groundwater Budget Fiscal Year 2020/2021 Schedule of Operating Revenues and Expenses

OPERATING REVENUE	
GW Assessments	\$608,895.68
Equitable O&M Costs	\$670,000.00
SBVMWD Spreading Agrmt	\$228,361.58
Exchange Plan	\$30,000.00
Total Operating Revenue	\$1,537,257.26

OPERATING EXPENSES	
Professional Services	\$66,838.27
Field Operations	\$76,730.86
Staff Salaries/Benefits	\$646,050.97
Other Administrative	\$51,365.82
Total Operating Expenses	\$840,985.92

OTHER EXPENSES	
Capital Expenses	\$73,677.87
Est. Capital Contribution	\$622,593.47
Total Other Expenses	\$696,271.34
TOTAL EXPENSES	\$1,537,257.26

San Bernardino Basin Groundwater Council Financial Report of SWP Water Purchases and Deliveries

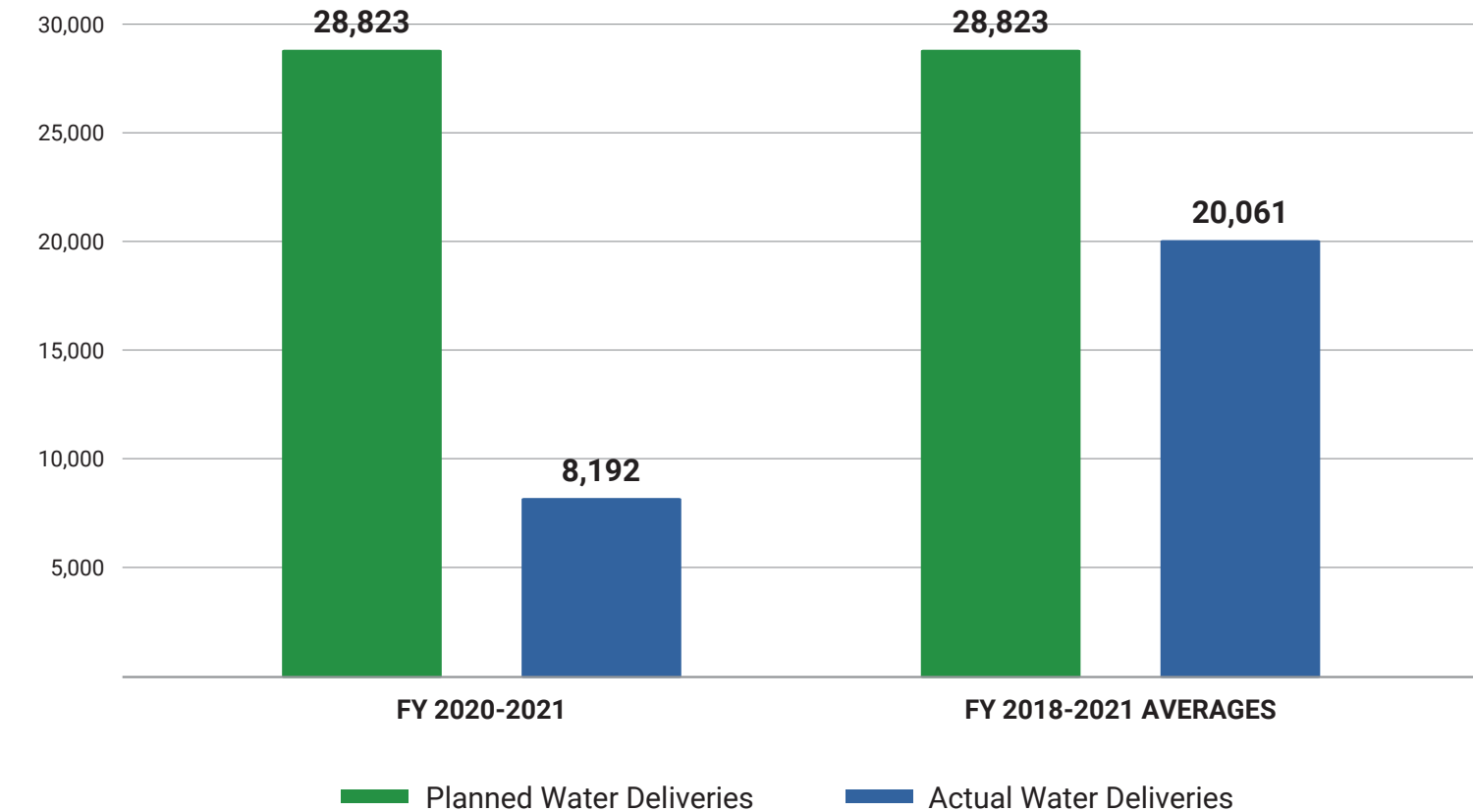
	GROUNDWATER COUNCIL DEPOSITS RECEIVED	SWP WATER DELIVERIES AT 118.40 / AF	BALANCE
Calendar Year 2018	\$2,119,915	\$1,767,739	\$352,176
Calendar Year 2019	\$2,414,389	\$4,106,493	\$(1,339,928)
Calendar Year 2020	\$2,401,263	\$969,874	\$91,461
TOTALS:	\$6,935,567	\$6,844,106	\$91,461

WATER DELIVERIES

In calendar year 2020, the SBB GC delivered 8,192 acre-feet of imported SWP water and 5,277 acre-feet of local water, out of the planned total of 28,823 AF. The delivery amounts and locations are included in Appendix C. The GC was not able to import its total planned amount of SWP water due to a low 20% allocation on the SWP.

	DELIVERIES	COST
Total Cumulative	60,183 acre-feet	\$10,223,318
2020	8,192 acre-feet	\$3,325,078

SBB GC Water Deliveries



IN 2020, THE GC RECHARGED 5,164 ACRE-FEET OF WATER AT THE WATERMAN SPREADING BASINS, SHOWN HERE.



OPERATIONS AND MAINTENANCE

2020 SBVWCD Cost: \$670,000

The total cost for O&M includes both the SBVWCD cost for groundwater recharge and SBVMWD cost for groundwater recharge.

Summary of SBVWCD O&M Activities for 2020

Native and Imported Water Recharge

The 2019-2020 water year had just below average precipitation in the water year ending on September 30, 2020, with approximately 18,000 AF of recharge from the Santa Ana River under the Valley District's and the Conservation District's water rights with an additional 5,000 AF of water recharged from Mill Creek. Due to the decreased availability of imported water, only 171 AF of GC water was recharged in the Conservation District's facilities.

2020 Operations and Maintenance Efforts

Most of 2020 was spent continuing maintenance needs after the record recharge year in 2019. Some water was recharged during March and April when water was released from Seven Oaks Dam, which temporarily put

maintenance activities on hold. In May, water had to be pumped from several basins for maintenance work to begin. This work included clearing silt and vegetation. Levee roads and culverts required extensive repairs from erosion or, in some instances, collapse. Maintenance in the Santa Ana facility was not completed until Summer of 2020.

Emergency repairs and cleaning in the Mill Creek facility were completed in early 2020. So much sand had to be removed from the basins that large stockpiles were created and that material has slowly been moved to make room for additional maintenance.

Stockpiled material in the Mill Creek facility is still in the process of being relocated to the Borrow Pit to make room for future maintenance needs. Continued maintenance of overflow and gate structures is anticipated, as well as increased vegetation management along levee roads.



Summary of SBVWCD O&M Activities for 2020 (continued)

Construction Efforts in 2020

Construction of the Plunge Creek Conservation Project was completed in October of 2020. This is a multi-benefit project designed to restore flows into historic remnant channels within the floodplain, increasing groundwater recharge and suitable habitat for the San Bernardino kangaroo rat and the Santa Ana River woolly star. The project uses splitter mounds constructed with native rock to divert flows from the active channel into pilot channels. These pilot channels are designed to direct flows to the historic remnant channels and then degrade so flows can spread out and recharge into the groundwater basin.



“
CONSTRUCTION OF
THE PLUNGE CREEK
CONSERVATION
PROJECT WAS
COMPLETED IN
OCTOBER 2020.”



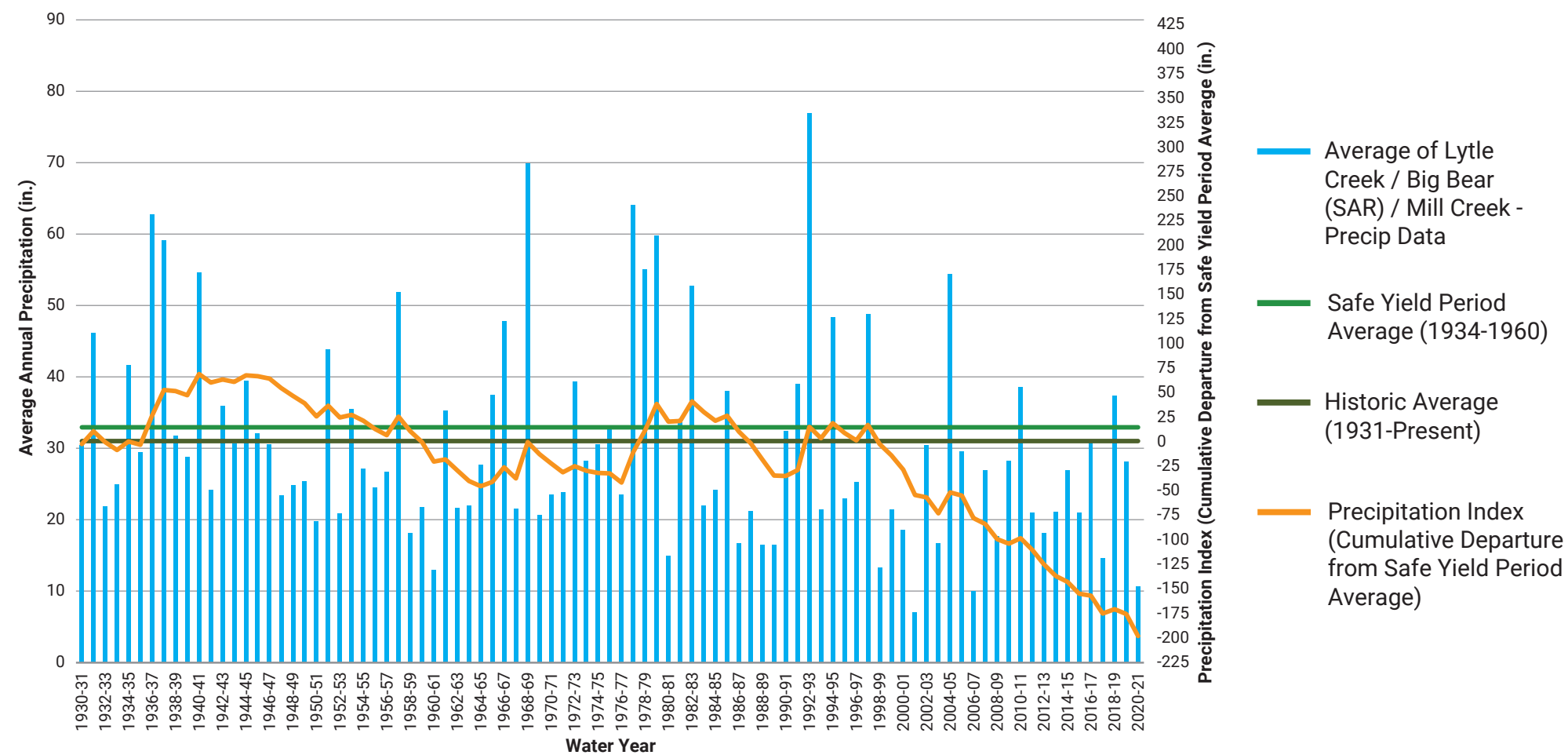
APPENDIX





APPENDIX A: SBB PRECIPITATION INDEX

The SBB receives the majority of its water supply from mountain runoff. Approximately two-thirds of this runoff comes from three sub-watersheds: Santa Ana River, Mill Creek and Lytle Creek. The SBB Precipitation Index (Index) is the cumulative departure from the safe yield period average precipitation in these three watersheds. An upward trend of the Index indicates that runoff from these three sub-watersheds is above average and a downward trend indicates that it is below average. The downward trend of the Index shows that the region has been experiencing an extended drought since around 1998.



APPENDIX B: BALANCE OWED BY PUMPERS NOT YET IN THE GC

AGENCY	TOTAL DUE TO DATE	TOTAL DUE TO SBVMWD	TOTAL DUE TO SBVWCD	FY 2020-21				FY 2019-20				FY 2018-19			
				WATER COST 2020-21 (\$)	TOTAL PAID TO SBVMWD IN 2020	EQUITABLE O&M COSTS	TOTAL PAID TO SBVWCD IN 2020	WATER COST 2019-20 (\$)	TOTAL PAID TO SBVMWD IN 2019	EQUITABLE O&M COSTS 2019-20 (\$)	TOTAL PAID TO SBVWCD IN 2019	WATER COST 2018-19 (\$)	TOTAL PAID TO SBVMWD IN 2018	EQUITABLE O&M COSTS 2018-19 (\$)	TOTAL PAID TO SBVWCD IN 2018
Mountain View Power Co.	\$153,561	\$153,561	N/A	\$35,104	\$-	N/A	\$-	\$44,732	\$-	N/A	Paid	\$69,536	\$-	N/A	Paid
Muscoy Mutual Water Company No. 1	\$91,005	\$91,005	N/A	\$28,674	\$-	N/A	\$-	\$25,888	\$-	N/A	N/A	\$32,509	\$-	N/A	N/A
San Bernardino County - Facility Management	\$40,524	\$40,524	N/A	\$12,625	\$-	N/A	\$-	\$11,617	\$-	N/A	N/A	\$14,513	\$-	N/A	N/A
Terrace Water Company	\$30,180	\$30,180	N/A	\$8,288	\$-	N/A	\$-	\$8,699	\$-	N/A	N/A	\$11,907	\$-	N/A	N/A
Other San Bernardino Extractions	\$470,971	\$470,971	N/A	\$147,347	\$-	N/A	\$-	\$130,978	\$-	N/A	N/A	\$173,037	\$-	N/A	N/A
San Bernardino Non-Parties Total:	\$786,242	\$786,242	\$-	\$232,038	\$-	\$-	\$-	\$221,914	\$-	\$-	\$-	\$301,502	\$-	\$-	\$-
Western Entities Total:	\$-	\$-	\$-	\$-	\$-	N/A	\$-	\$-	\$-	\$-	Paid	\$-	\$-	\$-	Paid
Total :	\$786,242	\$786,242	N/A	\$232,038	\$-	N/A	\$-	\$221,914	\$-	N/A	N/A	\$301,502	\$-	\$-	N/A

Paid= O&M charges paid through SBVWCD Groundwater Charge

San Bernardino Basin Groundwater Council 2020 Deliveries

Legend

- BTAC Threshold
- Operational Limit
- Heap Well
- ▲ USGS Monitoring Well

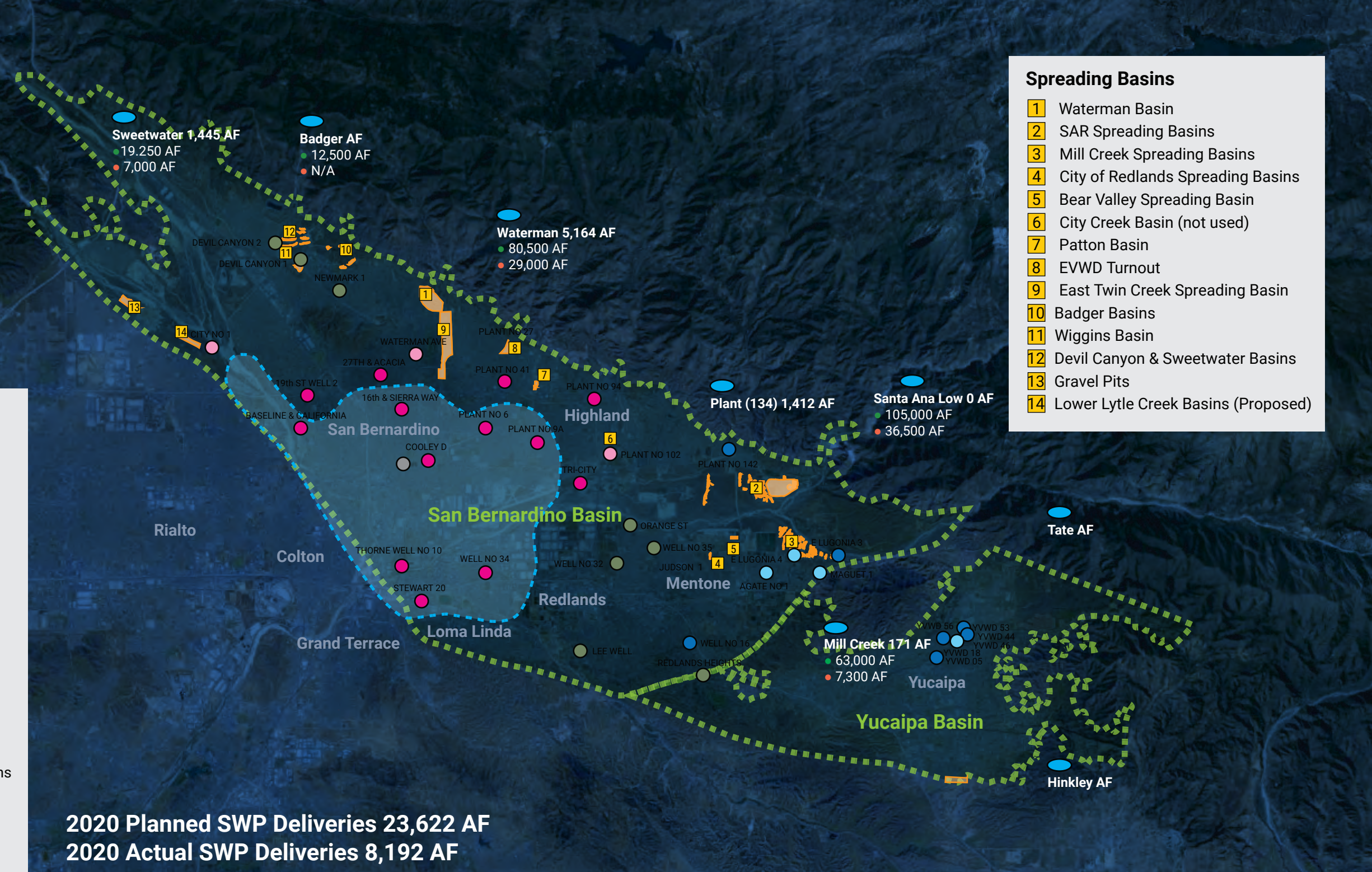
Index Wells

Recharge Status

- No Recharge
- Transitional - No Recharge
- Target
- Transitional - Recharge
- Recharge

- ▭ Area of Historic High Ground Water
- ▭ San Bernardino and Yucaipa Groundwater Basins
- ▭ Spreading Basins

0 1 2 Miles



Spreading Basins

- 1 Waterman Basin
- 2 SAR Spreading Basins
- 3 Mill Creek Spreading Basins
- 4 City of Redlands Spreading Basins
- 5 Bear Valley Spreading Basin
- 6 City Creek Basin (not used)
- 7 Patton Basin
- 8 EVWD Turnout
- 9 East Twin Creek Spreading Basin
- 10 Badger Basins
- 11 Wiggins Basin
- 12 Devil Canyon & Sweetwater Basins
- 13 Gravel Pits
- 14 Lower Lytle Creek Basins (Proposed)

APPENDIX C: GC 2020 DELIVERY PLAN

Due to dry conditions in Northern California, the State Water Project was only able to deliver 20% of its total delivery capability. This amount of imported water is not sufficient to meet both direct deliveries and recharge deliveries. When there is a shortage of imported water, direct deliveries are given first priority over recharge deliveries, like the SBB GC, per the SBB GC Guidelines for the Delivery of Purchased Water by the Groundwater Council. Per the SBB GC Formation Agreement, water funds collected by the SBB GC in 2020 will be saved and used to purchase additional water in future wet years, when it is available.

GROUNDWATER COUNCIL MEMBERS

BEAR VALLEY
Mutual Water Company



**San Bernardino Valley
Water Conservation District**
Helping Nature Store Our Water



**LOMA LINDA
UNIVERSITY**



Yucaipa Valley Water District

