



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

On March 4, 2020, Governor Newsom declared a State of Emergency resulting from the threat of COVID-19. On September 16, 2021, Governor Newsom signed Assembly Bill No. 361 into law. Assembly Bill No. 361 amends Government Code section 54953(e) by adding provisions for remote teleconferencing participation in meetings by members of a legislative body, without the requirements of Government Code section 54953(b)(3), subject to the existence of certain conditions. The San Bernardino Valley Municipal Water District adopted a resolution determining, by majority vote, that, as a result of the declared State of Emergency, a meeting in person would present imminent risks to the health or safety of attendees. Accordingly, it has been determined that all meetings of the San Bernardino Valley Municipal Water District will be held pursuant to the Brown Act and will be conducted via teleconference. There will be no public access to the meeting venue.

SAN BERNARDINO BASIN 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

IMPORTANT PRIVACY NOTE: Participation in the meeting via the Zoom app is encouraged.
Online participants **MUST** log in with a Zoom account. The Zoom app is a free download.

Please keep in mind: (1) This is a public meeting; as such, the virtual meeting information is published on the World Wide Web and available to everyone. (2) Should you participate remotely via telephone, your telephone number will be your "identifier" during the meeting and available to all meeting participants; there is no way to protect your privacy if you elect to call in to the meeting.



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GROUNDWATER COUNCIL MEETING AGENDA

MONDAY, OCTOBER 11, 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 (8), City of Redlands (8), City of Rialto (10), East Valley Water District (3), Fontana Union Water Company (4), Loma Linda University (1), San Bernardino Municipal Water Department (47), San Bernardino Valley Municipal Water District (0), San Bernardino Valley Water Conservation District (0), West Valley Water District (16), Yucaipa Valley Water District (0)

INTRODUCTIONS

1. APPROVAL OF MINUTES

- 1.1 *August 9, 2021 Meeting Minutes*
[August 9, 2021 Meeting Minutes](#)

2. NEW BUSINESS

- 2.1 *Presentation of the Final 2020 San Bernardino Basin Groundwater Council Annual Report*
[2020 San Bernardino Basin Groundwater Council Annual Report Final](#)
- 2.2 *Consider Volume of Imported Water that is used in the Equitable Allocation Model*
- 2.3 *Update on the Groundwater Council Membership for Non-Council Producers in the San Bernardino Basin*

3. OLD BUSINESS

4. OTHER BUSINESS

5. SET DATE FOR NEXT MEETING

The next regularly scheduled Groundwater Council meeting will be on December 13, 2021, at 10:00am.

6. ADJOURNMENT

**MINUTES
OF
THE
GROUNDWATER COUNCIL**

August 9, 2021

Registered Guests:

Daniel Cozad, San Bernardino Valley Water Conservation 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
Bob Tincher, San Bernardino Valley Municipal Water District
Matthew Howard, San Bernardino Valley Municipal Water District
Adekunle Ojo, San Bernardino Valley Municipal Water District
Sam Fuller, Bear Valley Mutual Water Company
Ryan Shaw, Western Municipal Water District
Jarb Thaipejr, City of Loma Linda
Russ Handy, City of Loma Linda
Cecilia Griego, City of Redlands
Katelyn Scholte, San Bernardino Valley Water Conservation District
Linda Jadeski, West Valley Water District
Van Jew, West Valley Water District
Jennifer Ares, Yucaipa Valley Water District
Leo Ferrando, City of Riverside
George Hanson, Bear Valley Mutual Water Company
Bertha Perez, West Valley Water District

The Groundwater Council meeting was called to order by Chairman, 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. April 12, 2021, Meeting.

Bob Tincher moved to approve the minutes of the April 12, 2021, Groundwater Council meeting. Daniel Cozad seconded. The motion was adopted unanimously by a non-roll-call vote.

Agenda Item 2. New Business.

1. Consider Appointing a Representative from the GC to the Active Recharge Transfers Projects (ARTP) Policy Committee

Daniel Cozad presented this item and informed the Groundwater Council (GC) that current sitting member on the Active Recharge Transfers Projects (ARTP) Policy Committee is retiring and requested that the GC consider appointing a representative from GC to the ARTP Policy Committee. Mr. Cozad discussed the ARTP Policy Committee and the general role the Committee has in relation to various recharge projects in the San Bernardino Valley Water Conservation District service area.

Daniel Cozad nominated Tom Crowley to be appointed to the ARTP Policy Committee. Jarb Thaipair seconded the nomination. The motion was adopted unanimously by a non-roll call vote.

2. Presentation of the draft 2020 San Bernardino Basin Groundwater Council Annual Report

Matthew Howard presented the draft 2020 Groundwater Council (GC) Annual Report. Mr. Howard informed the GC the Annual Report was produced by San Bernardino Valley Municipal Water District and San Bernardino Valley Water Conservation District staff over the past several months. Mr. Howard provided the background to the Annual Report as it's outlined in the GC Framework Agreement and includes annual production, amount of water recharged, and other material topics that are material to the groundwater conditions of the San Bernardino Basin (SBB). Mr. Howard walked the GC through the 2020 Annual Report providing highlights of the GC, SBB sustainability, Equitable Cost Sharing, native and imported water deliveries, and O&M activities and costs. Mr. Howard requested that the GC review the draft 2020 Annual Report and provide comments by August 23, 2021. Mr. Crowley asked that he final 2020 GC Annual Report return for consideration at the October 11, 2021 GC meeting. Miguel Guerrero requested printed copies of the final 2020 Annual Report. Daniel Cozad requested that a web version be made available to the GC as well.

Agenda Item 3. Old Business.

None

Agenda Item 4. Other Business.

Bob Tincher reminded the group that the Upper Santa Ana River Integrated Regional Urban Water Management Plan projects no need for imported water in the SBB for the next planning cycle. This is largely due to the reduction in demand and the change in population projections. The newest population projections show the area growing much slower than previously anticipated. The Equitable Allocation Model uses the projected need for SWP water to develop the budget for GC water purchases. Thus, having the projected need being zero would reduce the amount the GC collects for water to zero. The GC could choose to not assess itself for water or it could choose to use a different metric for determining its assessment for water. Bob suggested that the GC may want to consider having this on a future agenda for a subsequent meeting to begin the discussion. He also reminded the group that the Basin Technical Advisory Committee will soon be working on possible Management Zones for the SBB based on the total storage. Total storage could be used as the metric for choosing whether to purchase SWP water rather than using the IRUWMP projected need for SWP water. Mr Jew suggested that the GC may want to consider purchasing supplemental water from another area in the state this year. Mr. Tincher responded that Valley District could explore options, on behalf of the GC, but that the water would be very expensive. He also reminded the GC that the SBB is 83% full and that the region's primary management strategy is to purchase water in wet years, when it is plentiful, and then utilize the stored water in dry years. Given its immense volume, the SBB is able to support the retail agencies that pump from it through the current dry year and even more subsequent dry years, if necessary.

The next regularly scheduled Groundwater Council Meeting will be on October 11, 2021 at 10:00 a.m.

Agenda Item 4. Adjournment.

There being no further business, Chairman Crowley adjourned the meeting 10:45 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 Planner

The background of the slide features a scenic landscape. In the foreground, a large, calm body of water, likely a reservoir, stretches across the frame. Behind the water is a long, low stone wall or dam. In the distance, a range of rugged, brownish mountains rises against a clear blue sky with some light, wispy clouds. The lower portion of the slide is overlaid with a solid blue shape that contains the text and logo.

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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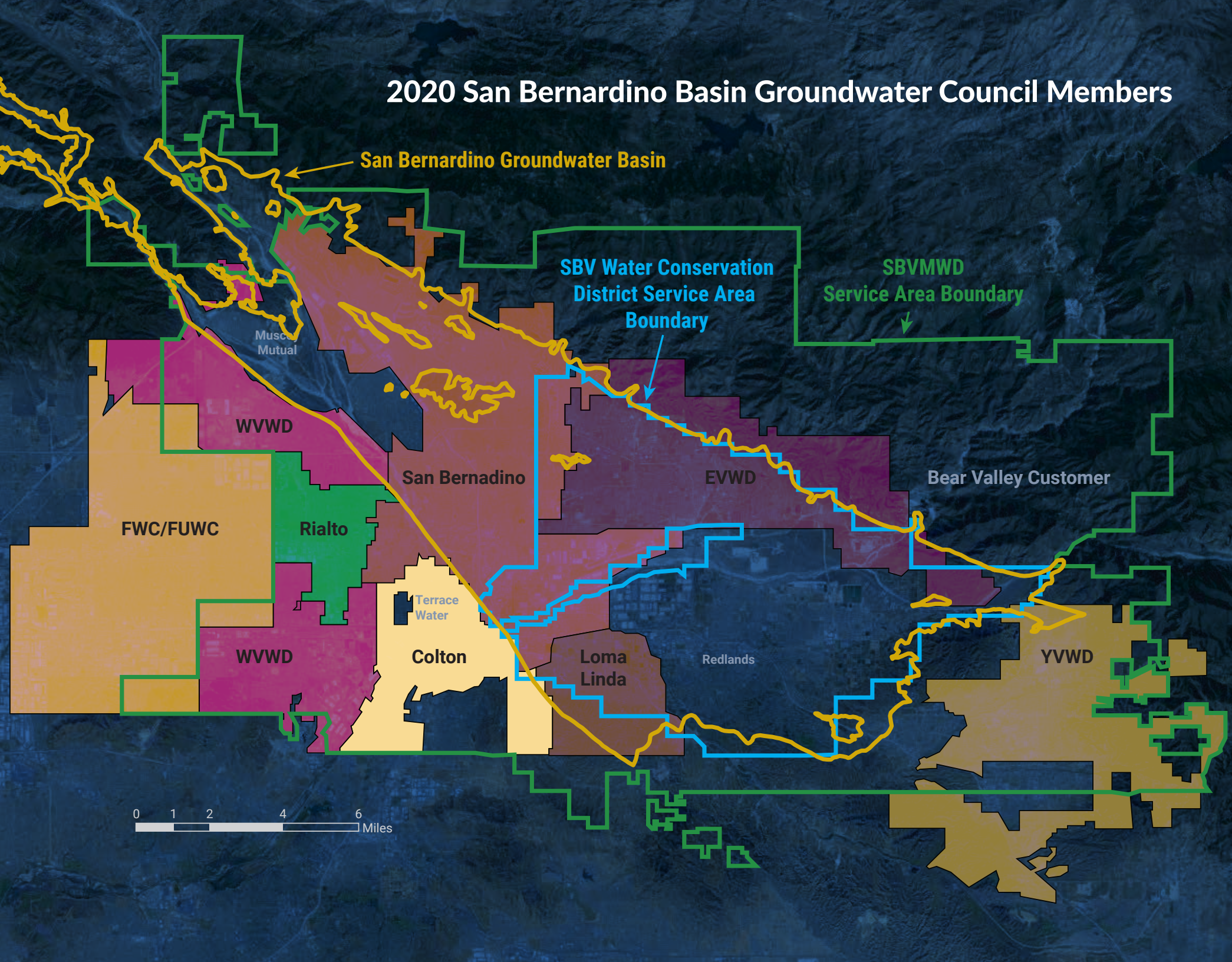
Appendix B:
Running Total/
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GC 2020
Delivery Plan



2020 San Bernardino Basin Groundwater Council Members



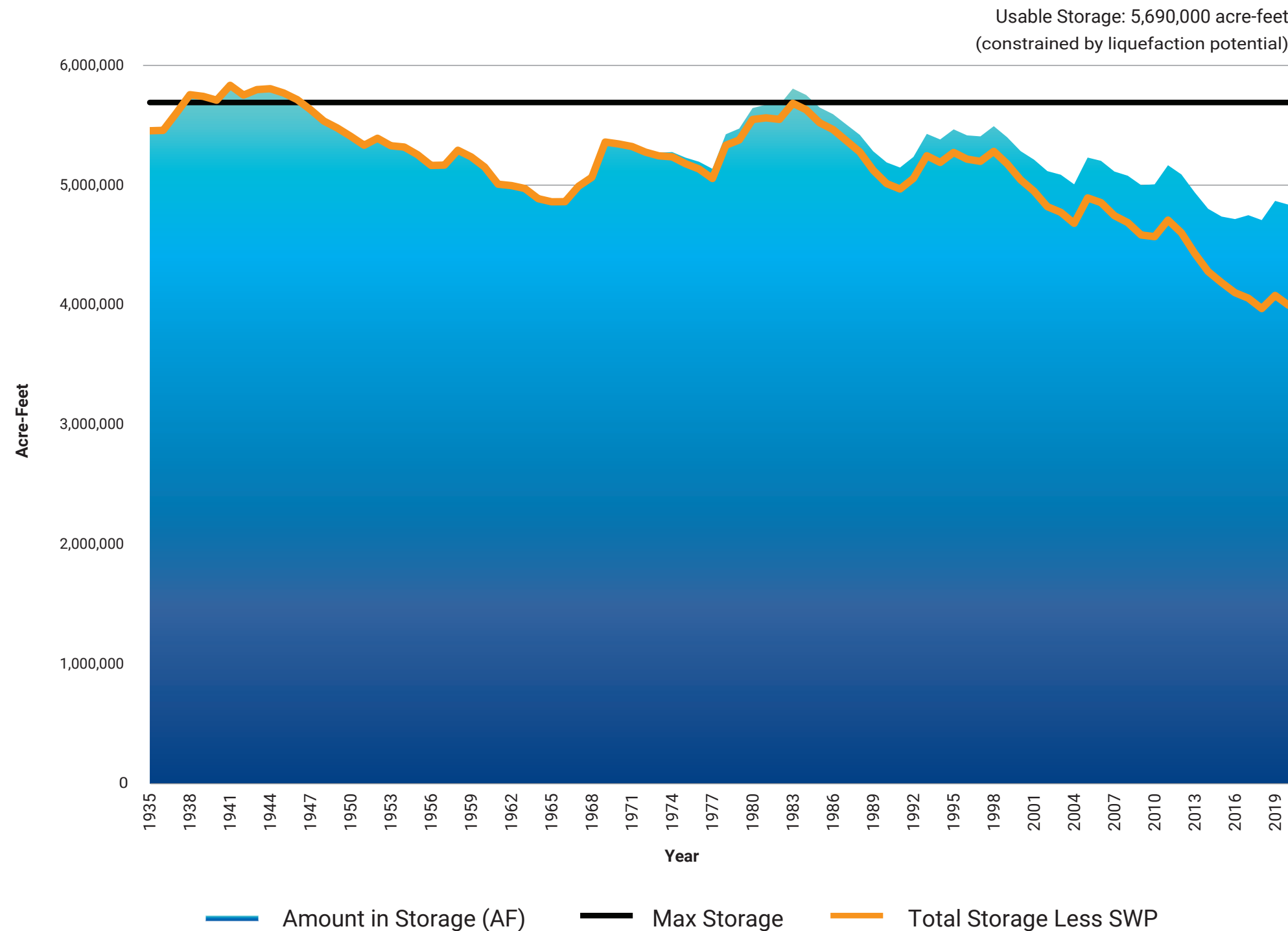
INTRODUCTION

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: 85% full

Despite drought conditions that began around 1998, (see Appendix A), the SBB Storage level has been stable due to the positive influence of the GC and Valley District's State Water Project (SWP) water purchases. Over a 22 year drought period, 604,589 acre-feet of SWP water was recharged into the SBB with the GC contributing about 10% of the total amount since its establishment in 2018. Without the recharge, the SBB would have dropped from 96% full in 1998 to about 74% in 2020.

“ DESPITE DROUGHT CONDITIONS THAT BEGAN AROUND 1998, THE SBB IS SUSTAINABLE DUE TO THE POSITIVE INFLUENCE OF THE GC AND VALLEY DISTRICT STATE WATER PROJECT WATER PURCHASES OVER THE LAST COUPLE OF YEARS. ”



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 Union Water
Company

Yucaipa Valley Water
District

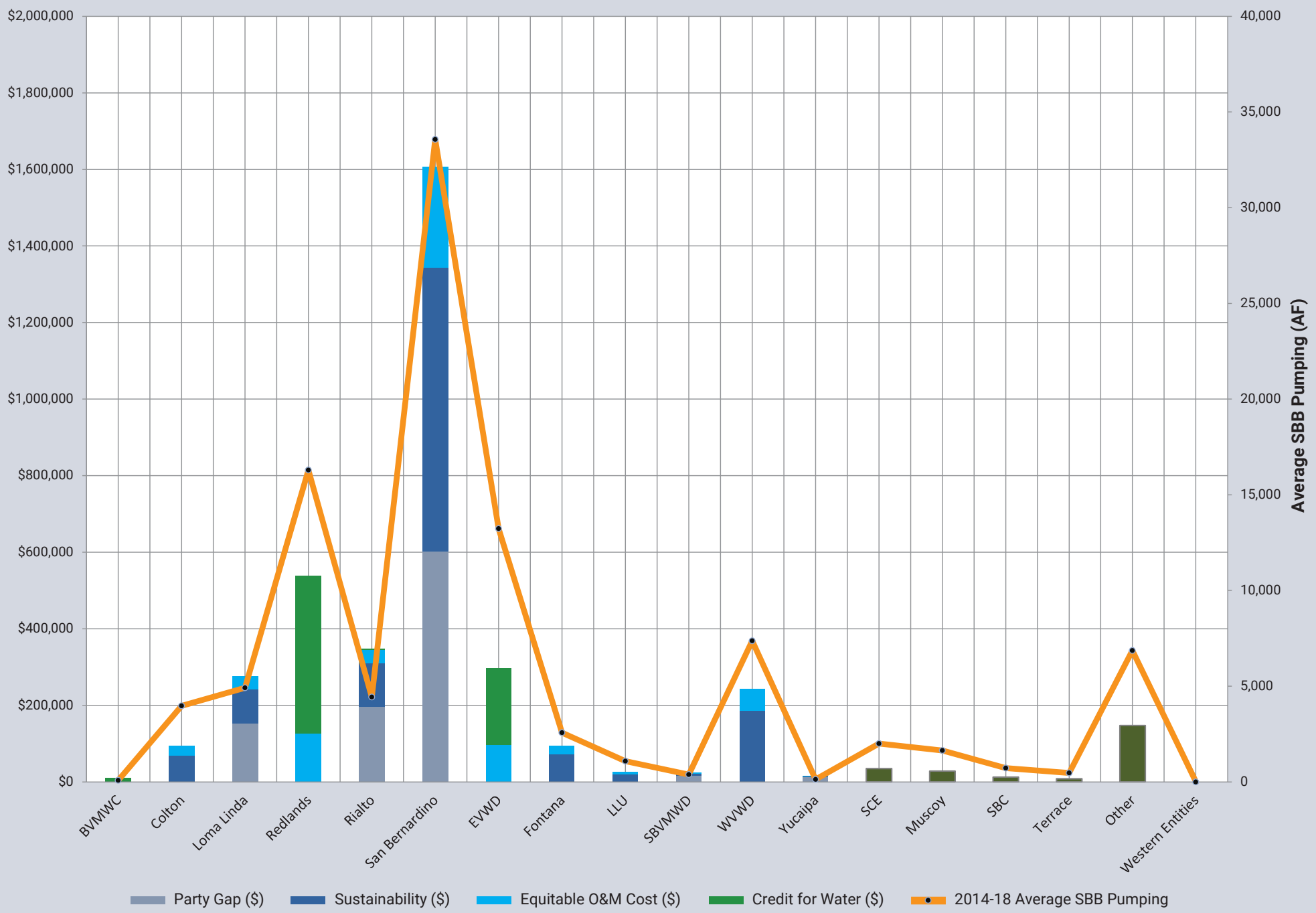
Loma Linda University

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

Conservation District Groundwater Budget FY20-21

OPERATING REVENUE	
GW Assessments	\$608,895.68
GC O&M Revenue	\$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

Note: The Conservation District groundwater budget listed above is only a portion of the Conservation District's total annual budget.

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

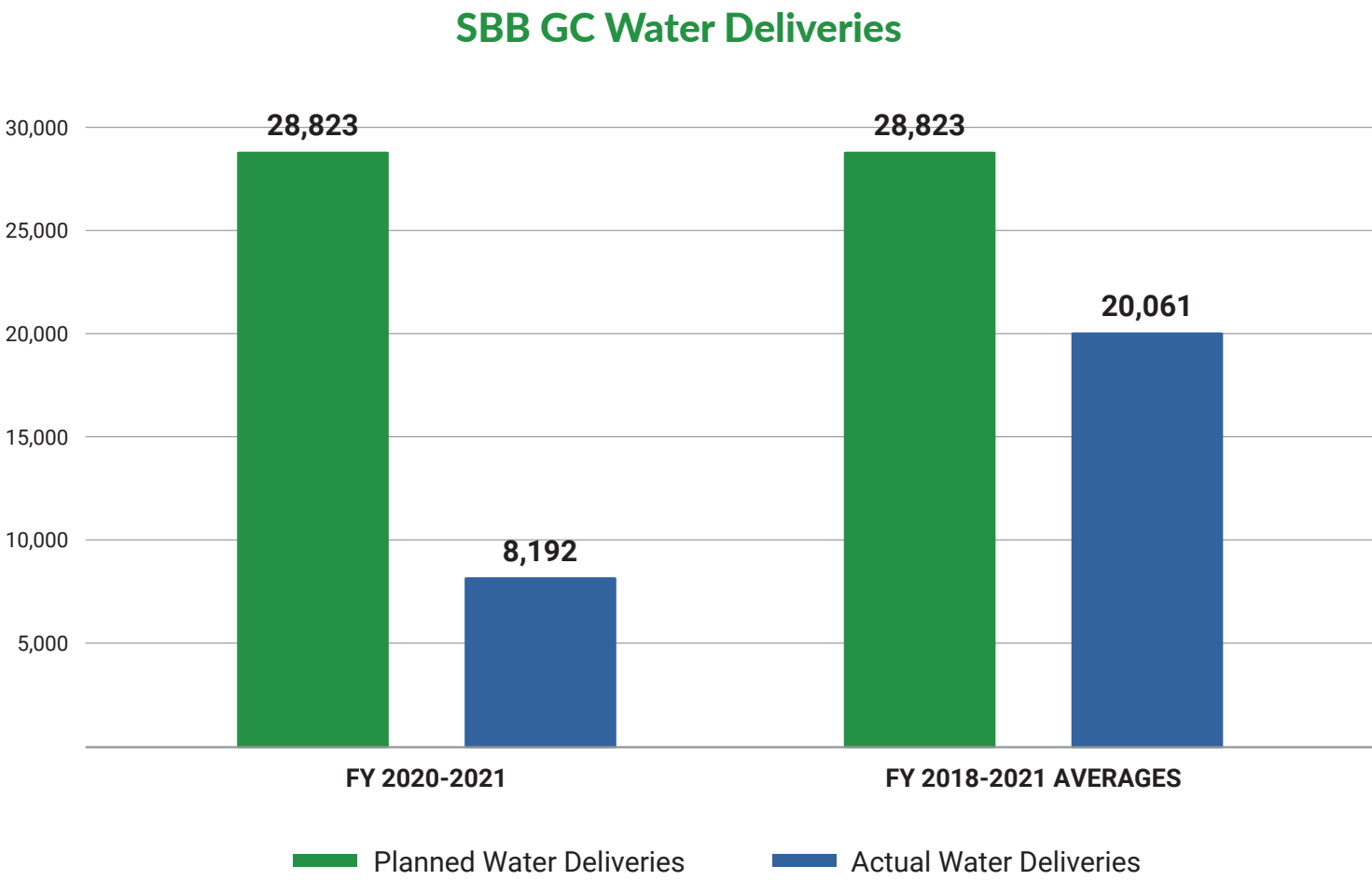
	GROUNDWATER COUNCIL DEPOSITS RECEIVED	SWP WATER DELIVERIES AT 118.40 / AF	BALANCE
Calendar Year 2018	\$2,119,915	\$1,767,739	\$352,176
Calendar Year 2019	\$2,414,389	\$4,106,493	\$(1,339,928)
Calendar Year 2020	\$2,401,263	\$969,874	\$91,461
TOTALS:	\$6,935,567	\$6,844,106	\$91,461

Note: Actual costs for imported SWP water and equitable O&M may differ from the budgeted amounts outlined in the FY20-21 EAM due to previous years corrections and costs associated with GC non-parties that had not joined during CY 2020.

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





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.

PLUNGE CREEK CONSERVATION PROJECT



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

”

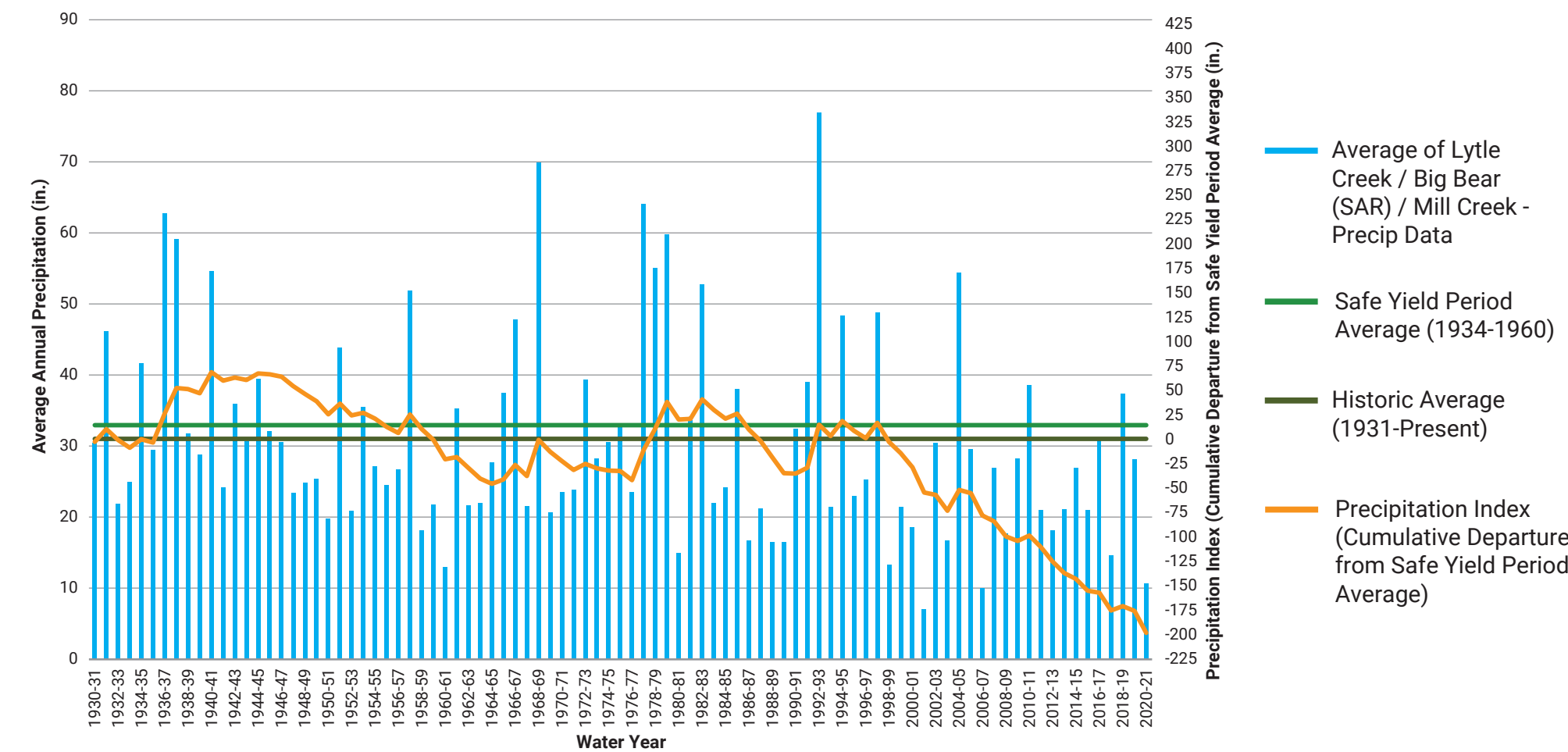
APPENDIX

WATER RELEASED FROM DWR'S DEVIL CANYON
POWERPLANT IN SAN BERNARDINO, CA



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.

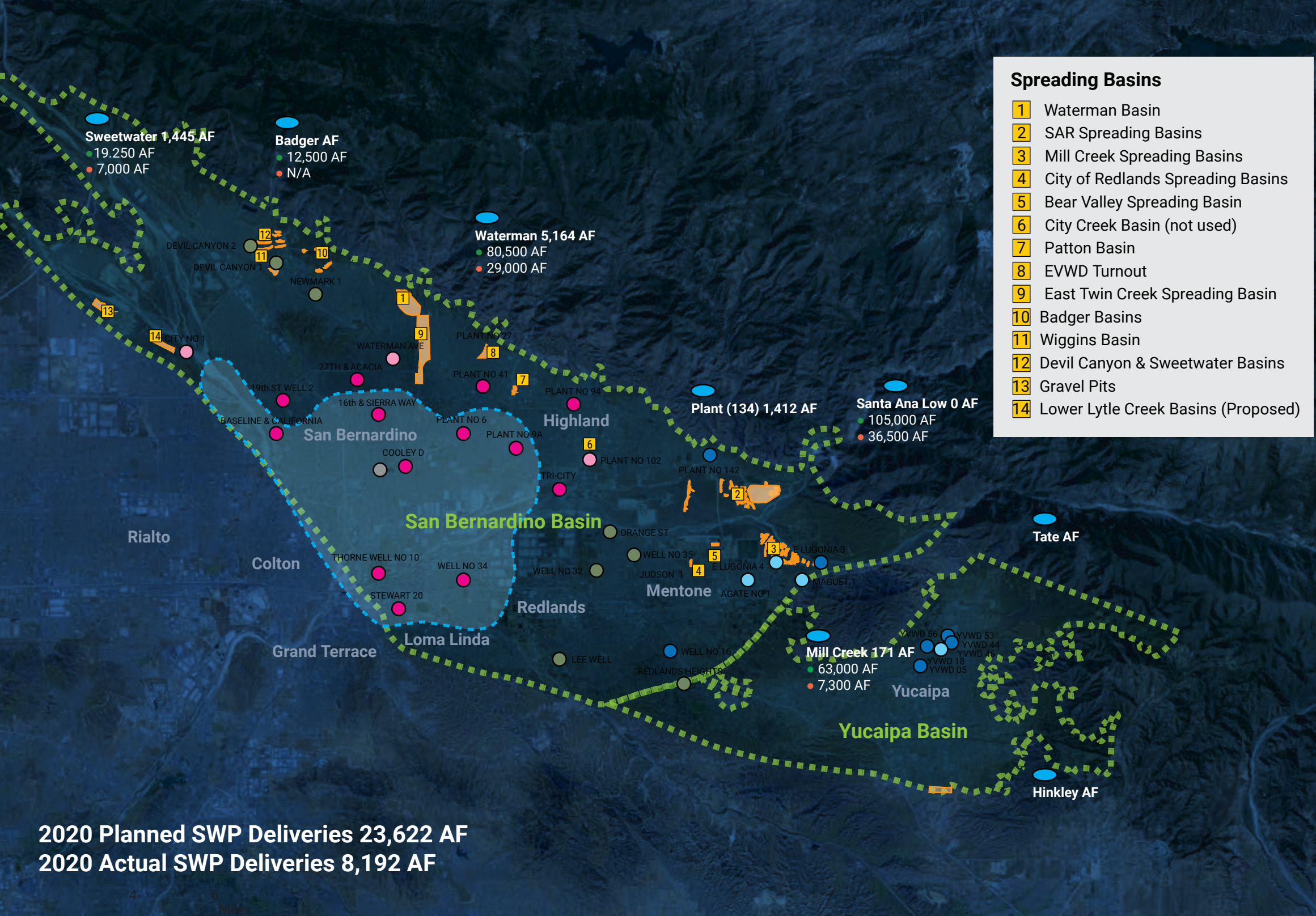
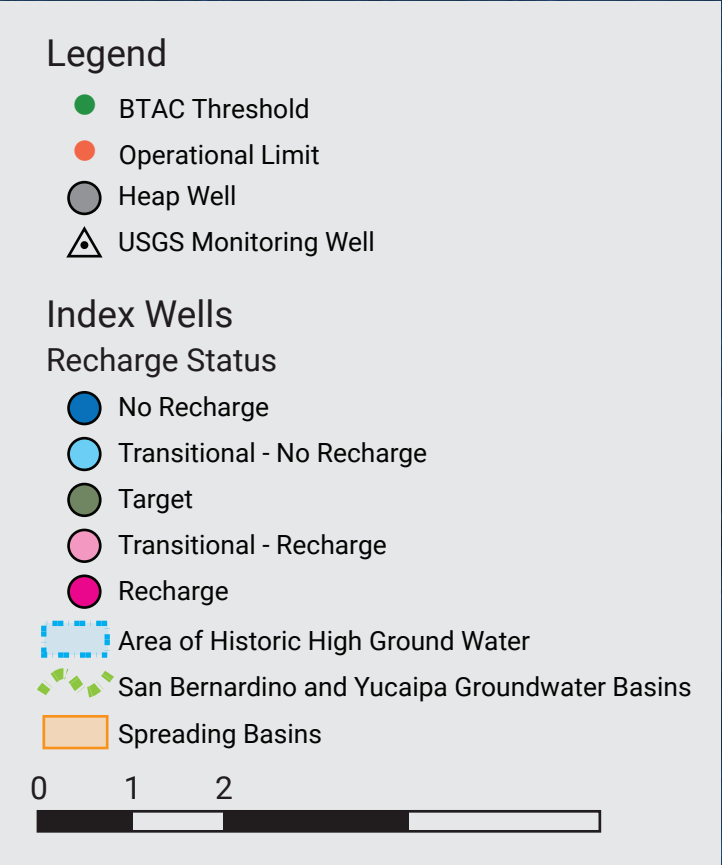


APPENDIX B: RUNNING TOTAL AND BALANCE OWED BY PUMPERS NOT YET IN THE GC

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:	\$4,960,928	\$4,236,559	\$724,370	\$2,797,116	\$-	\$670,000	\$-	\$3,130,826	\$2,362,339	\$540,000	\$543,847	\$3,197,008	\$2,124,096	\$643,822	\$481,377

Paid= O&M charges paid through SBVWCD Groundwater Charge

San Bernardino Basin
Groundwater Council
2020 Delivery Plan



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



LOMA LINDA
UNIVERSITY

