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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, DECEMBER 13, 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 *October 11, 2021, Meeting Minutes*
[*Groundwater Council Meeting Minutes 10-11-2021*](#)

2. NEW BUSINESS

- 2.1 *Review draft FY 22-23 Groundwater Council Budget*
[*Draft FY 22-23 EAM*](#)
- 2.2 *Consider Request from the City of Redlands and Bear Valley Mutual Water Company to Receive Credit for Recharge in the San Bernardino Basin*
[*20211130 GC Recharge Credit Request_Redlands*](#)
- 2.3 *Consider Changing Annual Imported Water Purchase Goal to 29,000 AF*
- 2.4 *State Water Project Supply Update*

3. OLD BUSINESS

4. OTHER BUSINESS

5. SET DATE FOR NEXT MEETING

The next regularly scheduled Groundwater Council meeting will be on February 14, 2022, at 10:00am.

6. ADJOURNMENT

**MINUTES
OF
THE
GROUNDWATER COUNCIL**

October 11, 2021

Registered Guests:

Daniel Cozad, San Bernardino Valley Water Conservation District
Jeff Noelte, East Valley Water District
Miguel Guerrero, San Bernardino Municipal Water Department
Bob Tincer, San Bernardino Valley Municipal Water District
Matthew Howard, San Bernardino Valley Municipal Water District
Adekunle Ojo, San Bernardino Valley Municipal Water District
Wen Huang, San Bernardino Valley Municipal Water District
Kristeen Farlow, San Bernardino Valley Municipal Water District
Cindy Saks, San Bernardino Valley Municipal Water District
Sam Fuller, Bear Valley Mutual Water Company
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
Van Jew, West Valley Water District
Jennifer Ares, Yucaipa Valley Water District
Brian Dickinson, City of Colton
George Hanson, Bear Valley Mutual Water Company
Jesus Gastelum, Elsinore Valley Municipal Water District

The Groundwater Council meeting was called to order by Vice Chairman, Jarb Thaipeir at 10:04 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. August 9, 2021, Meeting.

Bob Tincher moved to approve the minutes of the August 9, 2021, Groundwater Council meeting. Daniel Cozad seconded. The motion was adopted unanimously by a non-roll-call vote.

Agenda Item 2. New Business.

1. Presentation of the Final 2020 San Bernardino Basin Groundwater Council Annual Report

Matt Howard presented the final 2020 San Bernardino Basin (SBB) Groundwater Council (GC) Annual Report. Mr. Howard informed the GC that the draft 2020 GC Annual Report was presented at the August 9 GC meeting and that any comments on the draft 2020 GC Annual Report be submitted by August 23, 2021. Mr. Howard informed the GC that minor or clarifying comments were received from West Valley Water District, Fontana Water Company, San Bernardino Municipal Water Department, and the San Bernardino Valley Water Conservation District. Mr. Howard informed the GC that all the comments received were addressed and were applicable, incorporated into the 2020 GC Annual Report. Mr. Howard informed the GC that Valley District will provide printed copies of the 2020 GC Annual Report to those GC member agencies that request hardcopies and that an electronic version is also available.

Miguel Guerrero moved to approve the final 2020 San Bernardino Basin Groundwater Council Annual Report. Daniel Cozad seconded the motion. The motion was adopted unanimously by a non-roll call vote.

2. Consider Volume of Imported Water that is used in the Equitable Allocation Model

Bob Tincher provided a presentation on the volume of imported water that the GC plans to purchase each year to ensure long term sustainability for the San Bernardino Basin (SBB). The value is defined in the GC Agreement as “the amount of SWP water, in acre-feet...which shall be obtained from the latest edition of the San Bernardino Valley Regional Urban Water Management Plan, Average Scenario for the latest planning year...”. Mr. Tincher explained that the latest edition of our regional urban water management plan completed in 2020, the *Integrated Regional Urban Water Management Plan* (IRUWMP), estimates that the SBB is in balance meaning that it does not require any imported SWP water for the latest planning year. Using this value would result in the GC not purchasing any imported water for, at least, the next 5 years until the IRUWMP is next updated. Mr. Tincher also reminded the group that the preferred management strategy for the SBB is to keep the basin as full as possible so that the region would have more water in storage to begin a long dry period. He also presented the latest storage value for the SBB which shows that the basin has almost 1 million acre-feet of space available for storage. The GC was not in favor of

recharging no imported water and discussed a few alternatives to the current approach. They decided to continue to purchase the same amount of imported water they have been purchasing but to round the number up to 29,000 acre-feet.

Jarb Thaipejr moved to use 29,000 acre-feet in the GC EAM. Daniel Cozad seconded the motion. The motion was adopted unanimously by a non-roll call vote.

3. Update on the Groundwater Council Membership for Non-Council Producers in the San Bernardino Basin

Daniel Cozad introduced this item and discussed the recent communication and progress made with Southern California Edison and other various producers in San Bernardino Basin that have not yet joined the GC. Adekunle Ojo also mentioned discussions with the County of San Bernardino regarding joining the GC. Mr. Ojo has also reached out to Muscoy Mutual Water Company and Terrace Water Company to schedule meetings to discuss joining the GC.

Agenda Item 3. Old Business.

None

Agenda Item 4. Other Business.

Jarb Thaipejr informed the GC that the City of Loma Linda recently completed their transition to advanced metering infrastructure (AMI), including new AMI meters, radio network towers and AMI software. This AMI upgrade will allow the residents of Loma Linda to check their water use on an hourly basis providing real time data to assist in water use efficiency programs and water loss audit reporting.

Agenda Item 5. Set Date for Next Meeting

The next regularly scheduled Groundwater Council Meeting will be on December 13, 2021 at 10:00 a.m.

Agenda Item 4. Adjournment.

There being no further business, Vice Chairman Thaipejr adjourned the meeting 10:54 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

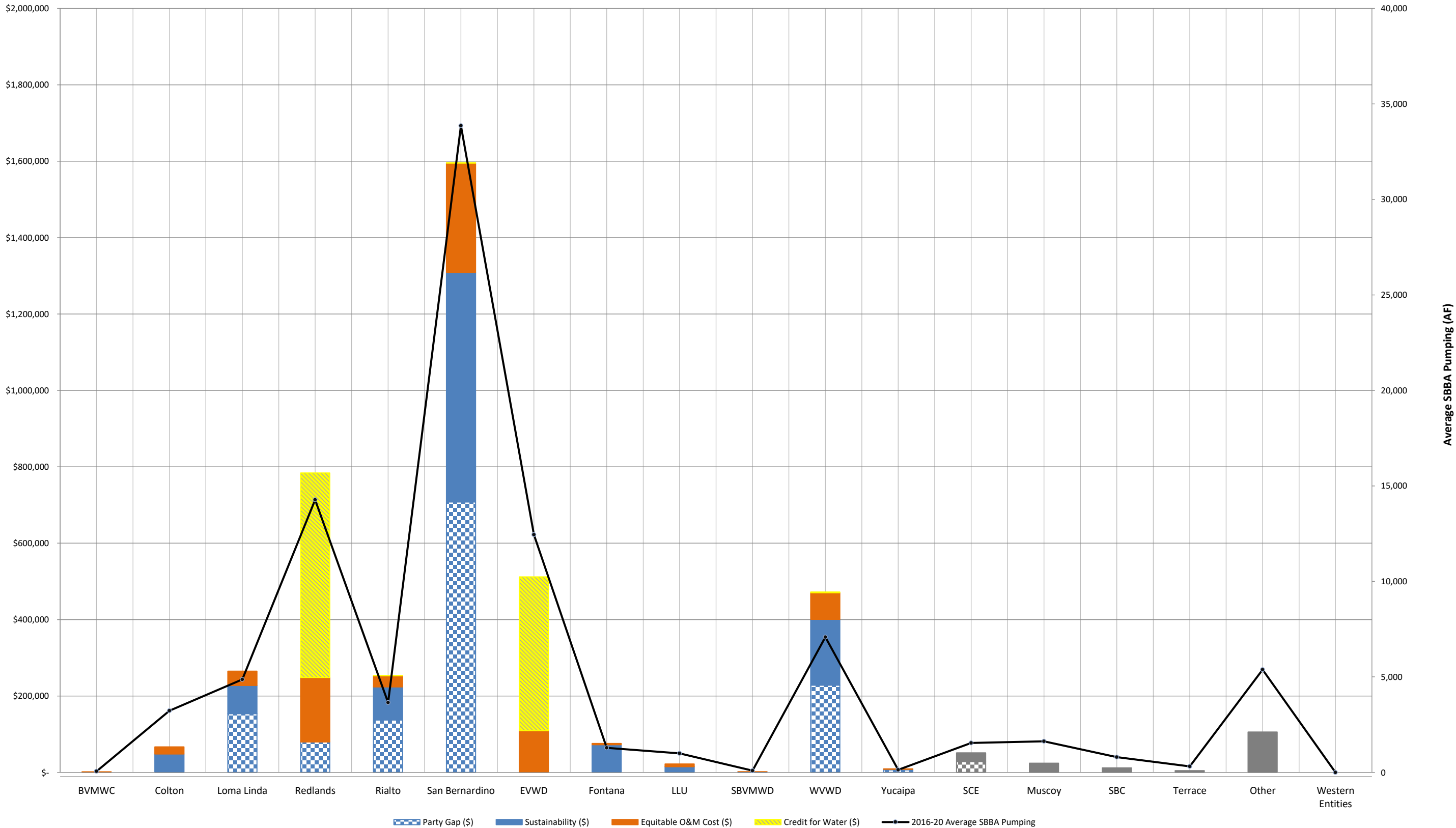
Groundwater Council Equitable Allocation Budget for FY 2022-23

Agency	Party Gap FY22-23 (AF)	Sustainability FY22-23 (AF)	Credit for Water brought to the Basin (AF)	Total Equitable Water Cost FY22-23 (\$)	Water Corrections for Previous Years (\$)	Total Water Cost with Corrections (\$)	Total Water with Corrections (AF)	Equitable O&M Costs FY22-23 (\$)	O&M Corrections for Previous Years (\$)	Total O&M Cost with Corrections (\$)	Total Party Costs FY22- 23 (\$)	Voting Weight 2022-23
Bear Valley Mutual Water Company	-	7	(4,053)	\$ -	\$ -	\$ -	0	\$ 1,493	\$ -	\$ 1,493	\$ 1,493	0.05%
City of Colton	-	405	-	\$ 47,928	\$ 2,805	\$ 50,733	428	\$ 18,835	\$ -	\$ 18,835	\$ 69,567	2.1%
City of Loma Linda	1,301	623	-	\$ 227,749	\$ 3,358	\$ 231,107	1952	\$ 37,196	\$ -	\$ 37,196	\$ 268,303	8.5%
City of Redlands	1,513	3,679	(4,521)	\$ 79,496	\$ 22,439	\$ 101,935	861	\$ 169,067	\$ -	\$ 169,067	\$ 271,003	8.0%
City of Rialto	1,157	741	(8)	\$ 223,782	\$ 4,154	\$ 227,936	1925	\$ 28,956	\$ -	\$ 28,956	\$ 256,892	8.1%
City of San Bernardino	5,979	5,088	(11)	\$1,309,038	\$ 28,048	\$ 1,337,086	11293	\$ 285,837	\$ -	\$ 285,837	\$ 1,622,923	51.2%
East Valley Water District	-	2,599	(3,404)	\$ -	\$ -	\$ -	0	\$ 108,881	\$ -	\$ 108,881	\$ 108,881	3.5%
Fontana Union Water Company	-	611	-	\$ 72,355	\$ 3,397	\$ 75,752	640	\$ 3,632	\$ -	\$ 3,632	\$ 79,384	2.4%
Loma Linda University	-	125	-	\$ 14,799	\$ 801	\$ 15,600	132	\$ 7,393	\$ -	\$ 7,393	\$ 22,993	0.7%
San Bernardino Valley M.W.D.	-	11	-	\$ 1,340	\$ -	\$ 1,340	11	\$ 7	\$ -	\$ 7	\$ 1,347	0.0%
West Valley Water District	1,931	1,471	(18)	\$ 400,637	\$ (90,646)	\$ 309,992	2618	\$ 69,388	\$ -	\$ 69,388	\$ 379,380	15.1%
Yucaipa Valley Water District	53	17	-	\$ 8,243	\$ 76	\$ 8,319	70	\$ 955	\$ -	\$ 955	\$ 9,274	0.3%
Total GC Parties:	11,934	15,377	\$ (12,015)	\$2,385,368	\$ (25,569)	\$ 2,359,799	19931	\$ 731,640	\$ -	\$ 731,640	\$ 3,091,439	100%
Mountain View Power Co.	240	193	-	\$ 51,246	\$ 1,344	\$ 52,590	444	#N/A	\$ -	#N/A	\$ 52,590	#N/A
Muscoy Mutual Water Company No. 1	-	204	-	\$ 24,175	\$ 1,251	\$ 25,426	215	#N/A	\$ -	#N/A	\$ 25,426	#N/A
San Bernardino County - Facility Management	-	100	-	\$ 11,896	\$ 557	\$ 12,453	105	#N/A	\$ -	#N/A	\$ 12,453	#N/A
Terrace Water Company	-	39	-	\$ 4,669	\$ 298	\$ 4,967	42	#N/A	\$ -	#N/A	\$ 4,967	#N/A
Other Inside SBVWCD	-	764	(18)	\$ 88,273	\$ 5,105	\$ 93,378	789	#N/A	\$ -	#N/A	\$ 93,378	#N/A
Other Outside SBVWCD	-	148	-	\$ 17,520	\$ 952	\$ 18,472	156	#N/A	\$ -	#N/A	\$ 18,472	#N/A
San Bernardino Non-Parties Total:	240.05	1,449	(18)	\$ 197,779	\$ 9,507	\$ 207,285	1751	\$ -	\$ -	\$ -	\$ 207,285	0%
Western Entities Total:	-	-	-	-	-	-	0	\$ -	-	-	\$ -	0%
Total:	12,174	16,826	(12,034)	\$2,583,146	\$ (16,062)	\$ 2,567,084	21681	\$ 731,640	\$ -	\$ 731,640	\$ 3,298,724	100%

Calculation for FY 2022-23

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W		
1	Calculation for 2022-23																								
2																									
3		Precipitation Adjustment	0%		Sustainable Amount (AF)	29,000																			
4		Recharge	95%		Budgeted Water Cost	\$ 3,433,600																			
5		Direct Use	100%		Budgeted O&M Cost SBVWCD	\$ 655,200		Non-Plaintiff																	
6		SWP Cost Recharge (\$/AF)	\$ 118		Budgeted O&M Cost SBCFCD	\$ 76,440		Plaintiff																	
7					Budgeted Admin Costs	\$ -																			
8																									
9	Base Period		1959-63	1959-1963 Base Period SBBA Production (AF)						Total Average Use, 1959-1963				Safe Yield Distribution				Total SBBA Demand	Groundwater	Average Surface Water	Total Base Period				
10		Agency	Abbreviation	1959	1960	1961	1962	1963	1959-63 Average GW + SW (AF)	Other Distribution	Recycled Water ₁₉₅₉₋₆₃ (AF)	1959-1963 Total Average Use (AF)	% of Total	Safe Yield ₁₉₅₉₋₆₃ (AF)	Safe Yield % of Total	SW ₁₉₅₉₋₆₃ (AF)	GWSY ₁₉₅₉₋₆₃ (AF)	Demand _{Previous Year} (2020)	GWSY ₁₉₅₉₋₆₃ (AF)	SW ₁₉₅₉₋₆₃ (AF)	Gap ₁₉₅₉₋₆₃				
11		Bear Valley Mutual Water Company	BVMWC	16,855	13,583	14,273	11,626	9,831	13,234	574	-	13,807	7.76%	12,976	5.59%	8,344	4,632	(12,383)	4,632	8,344	593				
12		City of Colton	Colton	2,814	3,606	3,305	3,743	3,267	3,347	-	-	3,347	1.88%	3,146	1.36%	-	3,146	(2,624)	3,146	-	522				
13		City of Loma Linda	Loma Linda	0	0	0	0	0	-	1,735	235	1,970	1.11%	1,852	0.80%	-	1,852	(5,182)	1,852	-	(3,330)				
14		City of Redlands	Redlands	19,378	19,941	18,736	20,758	16,676	19,098	7,092	2,068	28,258	15.88%	26,558	11.44%	6,864	19,694	(34,511)	19,694	6,864	(7,953)				
15		City of Rialto	Rialto	1,659	795	959	1,068	1,397	1,176	833	-	2,008	1.13%	1,888	0.81%	617	1,270	(5,617)	1,270	617	(3,729)				
16		City of San Bernardino	SBMWD	17,268	16,099	18,448	17,575	16,456	17,169	3,468	-	20,637	11.60%	19,395	8.36%	1,206	18,189	(39,822)	18,189	1,206	(20,427)				
17		East Valley Water District	EVWD	6,545	6,900	7,674	7,144	7,540	7,161	7,562	-	14,723	8.27%	13,837	5.96%	57	13,779	(18,372)	13,779	57	(4,536)				
18		Fontana Union Water Company	FWC	19,841	15,649	13,295	14,674	12,086	15,109	-	-	15,109	8.49%	14,200	6.12%	6,688	7,512	(6,424)	7,512	6,688	7,776				
19		Loma Linda University	LLU	1,011	1,116	1,202	1,166	901	1,079	-	-	1,079	0.61%	1,014	0.44%	-	1,014	(1,030)	1,014	-	(16)				
20		Mountain View Power Co.	SCE	1,410	1,219	1,425	726	744	1,105	-	-	1,105	0.62%	1,038	0.45%	-	1,038	(1,674)	1,038	-	(636)				
21		Muscov Mutual Water Company No. 1	MMWC	1,943	1,870	2,028	1,863	1,684	1,878	-	-	1,878	1.06%	1,765	0.76%	-	1,765	(1,739)	1,765	-	26				
22		San Bernardino County - Facility Management	SBC	636	615	809	564	386	602	825	-	1,427	0.80%	1,341	0.58%	-	1,341	(1,093)	1,341	-	248				
23		San Bernardino Valley M.W.D.	SBVMWD	0	0	0	0	0	-	-	-	-	0%	-	0.00%	-	-	(1)	-	-	(1)				
24		Terrace Water Company	Terrace	1,318	921	1,077	1,012	899	1,045	-	-	1,045	0.59%	982	0.42%	-	982	(141)	982	-	841				
25		West Valley Water District	WVWD	13,584	12,090	13,587	11,331	11,837	12,486	-	-	12,486	7.02%	11,734	5.06%	3,588	8,147	(14,779)	8,147	3,588	(3,045)				
26		Yucaipa Valley Water District	YVWD	0	0	0	0	0	-	-	-	-	0.00%	-	0.00%	-	-	(133)	-	-	(133)				
27		Other Inside SBVWCD	Other	74,763	71,141	75,229	71,613	65,461	71,642	(19,164)	-	52,477	29.49%	49,319	21.25%	5,886	43,433	(5,235)	43,433	5,886	44,084				
28		Other Outside SBVWCD	Other	11,218	8,562	8,989	10,240	8,563	9,514	(2,925)	-	6,590	3.70%	6,193	2.67%	-	6,193	(843)	-	-	5,350				
29		Non-Plaintiff Total:		190,243	174,107	181,037	175,103	157,729	175,644	-	2,303	177,947	100%	167,238	72.05%	33,250	133,988	(151,603)	133,988	33,250	15,635				
30		Plaintiff Total:		70,373	64,867	70,944	65,102	60,983	64,862	-	-	-	-	64,862	27.95%	-	-	-	-	-					
31		Total:		260,616	238,974	251,981	240,205	218,712	240,506	-	-	-	-	232,100	100%	33,250	198,850								
32																									
33																									
34																									
35																									
36																									
37	Current (last 5 years)		2016-20 (5 years)	Present Period Net SBBA GW + SW Production (AF)						Total Average Use, 2016-20(AF)				Safe Yield Distribution				Total SBBA Demand	Groundwater	Average Surface Water	Recycled Water			Total Present Period	
38		Agency	Abbreviation	2016	2017	2018	2019	2020	Average SBBA Use 2016-20 (AF)	SWP (AF)	Recycled Water _{Previous Year} (AF)	Party Water Use (AF)	% of Total	Safe Yield _{Last 5 Years} (AF)	Safe Yield % of Total	SW _{Last 5 Years} (AF)	GWSY _{Last 5 Years} (AF)	Demand _{Previous Year} (2020)	GWSY _{Last 5 Years} (AF)	SW _{Last 5 Years} (AF)	New Direct Recycled (AF)	New Recharge Recycled (AF)	Net New Recycled _{Previous Year} (AF)	Gap _{Last 5 Years}	
39		Bear Valley Mutual Water Company	BVMWC	8,928	10,332	10,220	6,856	12,383	9,744	1,288	-	11,032	7.6%	13,123	5.47%	9,686	3,437	(12,383)	3,437	9,686	-	-	-	740	
40		City of Colton	Colton	3,044	3,842	3,695	2,943	2,624	3,230	-	-	3,230	2.2%	3,842	1.60%	-	3,842	(2,624)	3,842	-	-	-	-	1,218	
41		City of Loma Linda	Loma Linda	4,208	5,070	5,158	4,725	5,182	4,869	100	-	4,969	3.4%	5,911	2.47%	-	5,911	(5,182)	5,911	-	-	-	-	729	
42		City of Redlands	Redlands	22,031	25,528	25,675	23,597	25,573	24,481	350	4,521	29,352	20.2%	34,916	14.56%	10,205	24,712	(34,511)	24,712	10,205	6,589	-	4,521	4,926	
43		City of Rialto	Rialto	4,429	3,149	6,411	5,406	5,091	4,897	1,014	-	5,911	4.1%	7,032	2.93%	1,244	5,788	(5,617)	5,788	1,244	-	-	-	1,415	
44		City of San Bernardino	SBMWD	23,588	29,154	39,523	37,206	39,822	33,859	6,736	-	40,595	28.0%	48,291	20.14%	-	48,291	(39,822)	48,291	-	-	-	-	8,469	
45		East Valley Water District	EVWD	13,014	20,103	19,889	17,143	20,828	18,216	2,518	-	20,733	14.3%	24,664	10.29%	5,771	18,893	(18,372)	18,893	5,771	-	-	-	6,292	
46		Fontana Union Water Company	FWC	2,650	4,112	5,147	6,045	6,424	4,876	-	-	4,876	3.4%	5,800	2.42%	3,587	2,213	(6,424)	2,213	3,587	-	-	-	(624)	
47		Loma Linda University	LLU	1,019	990	986	961	1,030	997	-	-	997	0.7%	1,186	0.49%	-	1,186	(1,030)	1,186	-	-	-	-	156	
48		Mountain View Power Co.	SCE	2,013	1,889	863	1,251	1,674	1,538	-	-	1,538	1.1%	1,830	0.76%	-	1,830	(1,674)	1,830	-	-	-	-	156	
49		Muscoy Mutual Water Company No. 1	MMWC	1,534	1,652	1,649	1,571	1,739	1,629	-	-	1,629	1.1%	1,938	0.81%	-	1,938	(1,739)	1,938	-	-	-	-	199	
50		San Bernardino County - Facility Management	SBC	458	841	846	770	1,093	802	-	-	802	0.6%	954	0.40%	-	954	(1,093)	954	-	-	-	-	(139)	
51		San Bernardino Valley M.W.D.	SBVMWD	-	-	449	1	1	90	-	-	90	0.1%	107	0.04%	-	107	(1)	107	-	-	-	-	106	
52		Terrace Water Company	Terrace	420	464	343	205	141	315	-	-	315	0.2%	374	0.16%	-	374	(141)	374	-	-	-	-	233	
53		West Valley Water District	WVWD	6,749	9,226	11,006	12,216	13,875	10,615	1,122	-	11,736	8.1%	13,961	5.82%	3,534	10,428	(14,779)	10,428	3,534	-	-	-	(818)	
54		Yucaipa Valley Water District	YVWD	162	110	178	92	133	135	-	-	135	0.1%	161	0.07%	-	161	(133)	161	-	-	-	-	28	
55		Other Inside SBVWCD	Other	6,413	5,473	5,915	5,836	5,203	5,768	327	-	6,095	4.2%	7,250	3.02%	919	6,332	(5,235)	6,332	919	-	-	-	2,015	
56		Other Outside SBVWCD	Other	1,820	1,323	995	922	843	1,181	-	-	1,181	0.8%	1,404	0.59%	653	751	(843)	751	653	-	-	-	561	
57		San Bernardino Entities Total:		102,480	123,258	139,048	127,747	143,659	127,238	13,454	4,521	145,214	100%	172,745	72.05%	35,598	137,147	(151,603)	137,147	35,598	6,589	-	-	4,521	25,662
58		Western Entities Total:		-	-	-	-	-	66,998	-	-	-	-	66,998	27.95%	-	-								
59		Total:		102,480	123,258	139,048	127,747	143,659	194,237	-	-	-	-	239,743	100%	35,598	137,147								
60																									
61																									
62																									
63		DRAFT BUDGET - FY2022-23 Calculation																							
64				Equitable Water Costs						Equitable O&M Costs				Total (2022-23)											
65		Agency	Party Gap (AF) (Gap ₁₉₅₉₋₆₃ + Gap<																						

GC EAM 2022-2023 Fiscal Year
Annual O&M and SWP for Ultimate Sustainability (2040)



Corrections for Previous Years	
Agency	¹ WVWD Lytle Creek Watermaster Data Error FY21-22
Bear Valley Mutual Water Company	\$ -
City of Colton	\$ 2,805
City of Loma Linda	\$ 3,358
City of Redlands	\$ 22,439
City of Rialto	\$ 4,154
City of San Bernardino	\$ 28,048
East Valley Water District	\$ -
Fontana Union Water Company	\$ 3,397
Loma Linda University	\$ 801
San Bernardino Valley M.W.D.	\$ -
West Valley Water District	\$ (90,646)
Yucaipa Valley Water District	\$ 76
Total GC Parties:	\$ (25,569)
Mountain View Power Co.	\$ 1,344
Muscoy Mutual Water Company No. 1	\$ 1,251
San Bernardino County - Facility Management	\$ 557
Terrace Water Company	\$ 298
Other Inside SBVWCD	\$ 5,105
Other Outside SBVWCD	\$ 952
San Bernardino Non-Parties Total:	\$ 9,507
Western Entities Total:	\$ -
Total:	\$ (16,062)

Notes

1- Data for WVWD's Lytle Creek diversion was over reported in the 2020 Watermaster report

Credit for Water Brought to the Basin		
Agency	New Recycled Water (AF)	Surface Water for Recharge (AF)
Bear Valley Mutual Water Company	-	4,053
City of Colton	-	-
City of Loma Linda	-	-
City of Redlands	4,521	-
City of Rialto	-	8
City of San Bernardino	-	11
East Valley Water District	-	3,404
Fontana Union Water Company	-	-
Loma Linda University	-	-
San Bernardino Valley M.W.D.	-	-
West Valley Water District	-	18
Yucaipa Valley Water District	-	-
Total GC Parties:	4,521	7,494
Mountain View Power Co.	-	-
Muscoy Mutual Water Company No. 1	-	-
San Bernardino County - Facility Management	-	-
Terrace Water Company	-	-
Other Inside SBVWCD	-	-
Other Outside SBVWCD	-	-
San Bernardino Non-Parties Total:	-	-
Western Entities Total:	-	-
Total:	4,521	7,494

Recycled Water
Redlands - Credit for Recycled water either for recharge or delivered to Edison. 2,068AF of recycled water was present in the base period and is subtracted from the total. Data provided by the agency.

Surface Water for Recharge
BVMWC- Recharge of Santa Ana River water at Lower Mill Creek, Mentone Reservoir, and airport ponds (Watermaster Volume 1, Table 6, Line 14). Recharge of Mill Creek water at Guns pond, highline and sand canyon (Watermaster Volume 1, Table 6, Line 17)
Rialto - Water delivered for spreading from Lytle Creek per calculations performed by WVWD
San Bernardino - Water delivered for spreading from Lytle Creek per calculations performed by WVWD
EVWD- Water within EVWD Northfork rights that is diverted by Northfork and then sent for spreading either at the ConservationDistrict facility or in Plunge Creek. Data from the Exchange Plan Daily Flow Report
WVWD - Water delivered for spreading from Lytle Creek per calculations performed by WVWD

Extraction Data and Adjustments

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE											
1	Verified Total Extractions											Pumping Adjustments					Other Distribution Verified Extractions					Credits for Water to the Basin																				
2	Source: 1971 Watermaster Report Summary of Extractions (Filed and Nonfiled) in the SBBA by Non-Plaintiffs for use in SB County											Source: 2020 Watermaster Report Volume 1 Table 3 (BVMWC Volume 1 Table 1, Volume 1A Table 1, BVMWC Report)					Source: Performed by SBVMWD					Source: 2020 Watermaster Report Volume 1 Change in Ownership from Base Period					Recycled Water (Data provided by agencies)				Recycled Water (Data provided by agencies)				Surface Water for Recharge (Data Watermaster Volume 1 Table 1 and 2020)				Total 2020			
3	Agency	1959	1960	1961	1962	1963	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	1959	1960	1961	1962	1963	AVG	2020	1959-63	2020	2020																
4	Bear Valley Mutual Water Company	24,597	20,706	19,405	18,864	15,632	9,341	16,396	11,550	14,414	18,526	-	-	-	-	-	-	-	1,012	974	882	574	-	-	4,053	4,053																
5	City of Colton	2,814	3,606	3,305	3,743	3,267	3,044	3,842	3,695	2,943	2,624	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
6	City of Loma Linda	-	-	-	-	-	4,708	5,070	5,158	4,725	5,182	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
7	City of Redlands	18,717	19,264	18,365	19,901	15,922	16,319	24,216	21,710	25,739	28,424	-	-	448	1	1	-	-	-	-	-	-	-	-	-	-																
8	City of Rialto	1,659	795	959	1,068	1,397	4,291	3,885	4,413	3,560	3,897	1,727	1,692	1,998	2,372	1,720	-	-	-	-	-	-	-	-	-	-																
9	City of San Bernardino	17,268	16,099	18,448	17,575	16,456	36,519	38,478	40,158	37,875	40,504	(216)	(139)	(635)	(669)	(682)	-	-	-	-	-	-	-	-	-	-																
10	East Valley Water District	6,545	6,891	7,632	7,022	7,427	12,791	15,214	14,545	12,276	15,169	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
11	Fontana Union Water Company	19,841	15,649	13,295	14,674	12,086	2,650	4,112	5,147	6,045	6,424	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
12	Loma Linda University	1,011	1,116	1,202	1,166	901	1,019	990	986	961	1,030	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
13	Mountain View Power Co.	1,410	1,219	1,425	726	744	2,013	1,889	863	1,251	1,674	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
14	Muscoy Mutual Water Company No. 1	1,943	1,870	2,028	1,863	1,684	1,534	1,652	1,649	1,571	1,739	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
15	San Bernardino County - Facility Management	636	615	809	564	386	458	841	846	770	1,093	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
16	San Bernardino Valley M.W.D.	-	-	-	-	-	5,643	4,921	6,421	6,321	6,100	(5,643)	(4,921)	(5,972)	(6,320)	(6,099)	-	-	-	-	-	-	-	-	-	-																
17	Terrace Water Company	1,318	921	1,077	1,012	899	420	464	343	205	141	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
18	West Valley Water District	13,584	12,090	13,587	11,331	11,837	4,862	7,108	6,966	9,361	10,066	4,132	3,368	4,040	4,065	4,713	-	-	-	-	-	-	-	-	-	-																
19	Yucaipa Valley Water District	-	-	-	-	-	162	110	178	92	133	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
20	Other Inside SBVWCD	67,682	64,704	70,511	65,354	60,528	6,413	5,473	5,915	5,836	5,203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
21	Other Outside SBVWCD	11,218	8,562	8,989	10,240	8,563	1,820	1,323	995	922	843	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
22	Santa Ana River Recharge Balance (difference between BVMWC diversion and use of SAR water)	-	-	-	-	-	3,405	17,472	3,422	492	2,561	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
23	San Bernardino Entities Total:	190,243	174,107	181,037	175,103	157,729	117,412	153,456	134,960	135,359	151,333	-	-	(121)	(550)	(347)	-	-	-	-	-	(0)	6,589	2,303	7,494	12,015																
24	City of Riverside	25,983	23,024	24,682	24,391	22,379	16,341	21,829	18,995	15,752	21,730	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
25	City of Riverside - Gage Canal	31,805	29,019	30,670	28,440	26,999	30,291	28,627	30,893	26,775	27,780	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
26	Weeks & Daley Water Company	7,282	8,037	9,399	7,560	7,854	7,220	7,218	7,217	7,444	6,537	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
27	Regents of University of California	558	546	658	564	425	554	554	554	554	554	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
28	Riverside Highland Water Co.	4,745	4,241	5,535	4,147	3,326	3,040	1,903	2,072	2,326	2,947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
29	Western Entities Total:	70,373	64,867	70,944	65,102	60,983	57,446	60,131	59,731	52,851	59,548	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
30	Total:	260,616	238,974	251,981	240,205	218,712	174,858	213,587	194,691	188,210	210,881	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
31	Agency	SWP Spreading Delivery					SWP Direct Delivery					TOTAL SWP Water					TOTAL SWP Water																									
32		Source: SBVMWD SWP Orders and Accounting					Source: SBVMWD SWP Orders and Accounting					Source: SBVMWD SWP Orders and Accounting					Source: SBVMWD SWP Orders and Accounting																									
33		2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020																
34	Bear Valley Mutual Water Company	-	-	-	-	-	5,209	466	144	101	518	5,209	466	144	101	518	5,209	466	144	101	518	5,209	466	144	101	518																
35	City of Colton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
36	City of Loma Linda	500	-	-	-	-	-	-	-	-	-	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
37	City of Redlands	550	-	-	-	-	781	129	-	-	290	1,331	129	-	-	290	1,331	129	-	-	290	1,331	129	-	-	290																
38	City of Rialto	1,590	2,428	-	526	526	1,590	2,428	-	526	526	1,590	2,428	-	526	526	1,590	2,428	-	526	526	1,590	2,428	-	526	526																
39	City of San Bernardino	12,715	9,185	-	-	-	5,966	5,816	-	-	-	18,681	15,001	-	-	-	18,681	15,001	-	-	-	18,681	15,001	-	-	-																
40	East Valley Water District	6,068	1,704	-	-	-	927	297	522	2,219	852	6,995	2,001	522	2,219	852	6,995	2,001	522	2,219	852	6,995	2,001	522	2,219	852																
41	Fontana Union Water Company	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
42	Loma Linda University	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
43	Mountain View Power Co.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
44	Muscoy Mutual Water Company No. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
45	San Bernardino County - Facility Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
46	San Bernardino Valley M.W.D.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
47	Terrace Water Company	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
48	West Valley Water District	2,245	1,250	-	1,210	904	-	-	-	-	-	2,245	1,250	-	1,210	904	2,245	1,250	-	1,210	904	2,245	1,250	-	1,210	904																
49	Yucaipa Valley Water District	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
50	Other Inside SBVWCD	-	-	-	-	-	-	941	632	29	32	-	941	632	29	32	-	941	632	29	32	-	941	632	29	32																
51	Other Outside SBVWCD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
52	San Bernardino Entities Total:	23,667	14,567	-	1,736	1,430	12,883	7,649	1,298	2,349	1,692	36,550	22,216	1,298	4,085	3,122	36,550	22,216	1,298	4,085	3,122	36,550	22,216	1,298	4,085	3,122																
53	City of Riverside	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
54	City of Riverside - Gage Canal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
55	Weeks & Daley Water Company	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
56	Regents of University of California	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
57	Riverside Highland Water Co.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
58	Western Entities Total:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
59	Lytle Creek	Source: See surface water tab for individual sources											Source: See surface water tab for individual sources											Source: See surface water tab for individual sources																		
60	Agency	1959	1960	1961	1962	1963	2016	2017	2018	2019	2020	1959	1960	1961	1962	1963	2016	2017	2018	2019	2020	1959	1960	1961	1962	1963																
61	Bear Valley Mutual Water Company	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
62	City of Colton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
63	City of Loma Linda	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
64	City of Redlands	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
65	City of Rialto	624	626	625	587	624	996	1,241	1,002	1,396	1,583	-	-	-	-	-	-	-	-	-	-																					

SBB GC Water Charge FY2022-23		
GC Parties	FY22-23 Water Cost (\$)	FY22-23 Water Cost (AF)
Bear Valley Mutual Water Company	\$ -	0
City of Colton	\$ 50,733	428
City of Loma Linda	\$ 231,107	1952
City of Redlands	\$ 101,935	861
City of Rialto	\$ 227,936	1925
City of San Bernardino	\$ 1,337,086	11293
East Valley Water District	\$ -	0
Fontana Union Water Company	\$ 75,752	640
Loma Linda University	\$ 15,600	132
San Bernardino Valley M.W.D.	\$ 1,340	11
West Valley Water District	\$ 309,992	2618
Yucaipa Valley Water District	\$ 8,319	70
Total GC Parties:	\$2,359,799	19931

SBB GC O&M Charge FY2022-23	
GC Parties	FY22-23 O&M Cost (AF)
Bear Valley Mutual Water Company	\$ 1,493
City of Colton	\$ 18,835
City of Loma Linda	\$ 37,196
City of Redlands	\$ 169,067
City of Rialto	\$ 28,956
City of San Bernardino	\$ 285,837
East Valley Water District	\$ 108,881
Fontana Union Water Company	\$ 3,632
Loma Linda University	\$ 7,393
San Bernardino Valley M.W.D.	\$ 7
West Valley Water District	\$ 69,388
Yucaipa Valley Water District	\$ 955
Total GC Parties:	\$ 731,640



City of
REDLANDS

Incorporated 1888
Municipal Utilities & Engineering Department
35 Cajon Street, Suite 15A
Redlands, CA 92373
909-798-7698

JOHN R. HARRIS
Director

To: Tom Crowley, San Bernardino Basin Groundwater Council President

From: John Harris, MUED Director

Date: November 23, 2021

Re: Groundwater Recharge Credit Request

The City of Redlands became a member of the San Bernardino Basin Groundwater Council (SBBGC) earlier this year when, on March 2nd, our City Council approved language in the Framework Agreement, appropriated additional funding, and authorized staff to take the steps necessary to finalize our membership. We are excited to partner with other local groundwater producers to sustain our valuable water source, and look forward to actively participating on the SBBGC.

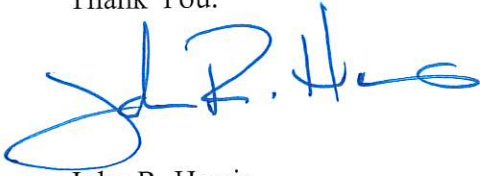
As a condition of membership, Redlands was required to remit “catch-up” membership fees for Fiscal Years 2018/19 and 2019/2020, as well as our annual membership fee for Fiscal Year 2021/22. We have done so, and will remit annual membership fees promptly in the future. Now, Redlands wishes to maximize the value of our SBBGC membership by receiving appropriate credit for our basin recharging efforts, just as the West Valley Water District and East Valley Water District have.

Redlands has actively contributed to the replenishment of the basin by applying water diverted pursuant to Redlands’ water rights and water provided to Redlands pursuant to the Redlands’ direct and indirect ownership of shares of Bear Valley Mutual Water Company and Crafton Water Company to local spreading basins. This effort meets the Framework Agreement definition for “Water Provided For Basin Benefit” since this water is “*controlled by that agency and intentionally delivered for groundwater recharge into the SBBA*” (Framework Agreement Exhibit B, Section II).

The City of Redlands requests credit for groundwater recharge, retroactive to formation of the SBBGC, following the West Valley Water District and East Valley Water District models. This request is submitted based on Redlands’ ownership of facilities and water rights in Mill Creek and direct and indirect ownership of numerous shares in Bear Valley Mutual Water Company and Crafton Water Company. A historic water recharge tabulation for each facility is attached. Please let me know the process and timeline for SBBGC approval of this request.

Feel free to contact me if additional information is needed.

Thank You.



John R. Harris
City of Redlands Municipal Utilities and Engineering Department Director
(909) 798-7658
jharris@cityofredlands.org

Cc: George Hanson, Bear Valley Mutual Water Company/Crafton Water Company General
Manager
(909) 793-4901
georgehanson21@gmail.com

Introduction to Following Table

Mill Creek —

Mill Creek is diverted by Southern California Edison Company near Forest Falls and at the Highway 38 bridge. Southern California Edison Company has no water rights. Mill Creek Owners hold the water rights. Southern California Edison Company returns possession of the water to the Mill Creek Owners at the afterbay of Southern California Edison Company Mill Creek Powerhouse Number 1. Mill Creek Owners operate and maintain the conveyance facilities from Southern California Edison Company Mill Creek Powerhouse Number 1 to the Cooley Hat and Henry Tate Water Treatment Plant and the East Weir.

The City of Redlands (City) and Crafton Water Company (CWC) are partners in the Mill Creek Owners. The City also owns CWC shares directly and indirectly. CWC delivers water to meet the needs of its shareholders, and the City becomes the possessor of water requested from CWC. The City can elect to direct water from the Mill Creek Diversion works through the East Weir to Mill Creek for recharge, and may also direct water from the Mill Creek diversion works through the East Weir to the Zanja where water percolates into the ground and becomes recharge unless the water is re-diverted into the Crafton Canal at the West Weir on the Zanja by CWC.

Santa Ana River —

The City owns numerous water company shares including prior right companies, Redlands Water Company and Lugonia Water Company. The City also owns numerous shares of Bear Valley Mutual Water Company. The City is also the beneficiary of shares of companies with which the City has delivery agreements. These water companies deliver water to meet the needs of their shareholders.

Southern California Edison Company diverts the waters of the Santa Ana River at numerous locations. Southern California Edison Company does not own the water rights and returns the diverted Santa Ana River water to Bear Valley Mutual Water Company. Bear Valley Mutual Water Company operates diversion and conveyance works on the Santa Ana River. The City may request that water diverted from the Santa Ana River be delivered into numerous ground water recharge facilities from the Santa Ana River diversion and conveyance facilities.

The attached data illustrates the deliveries of water diverted for groundwater recharge by the City and by mutual water companies as requested by the City.

REDLANDS ANNUAL GROUNDWATER RECHARGE - MILL CREEK & SANTA ANA RIVER

REDLANDS ANNUAL GROUNDWATER RECHARGE - MILL CREEK & SANTA ANA RIVER

Recharge from Mill Creek Diversions

	East Weir Discharge to Mill Crk (AF)	East Weir to Zanja -- West Weir (AF)
2018 Total	1130	419
2019 Total	2263	1328
2020 Total	3871	571
2021		
January	257	87
February	234	26
March	256	44
April	93	137
May	233	137
June	0	157
July	0	97
August	17	50
September		
October		
November		
December		
2021 Total	1091	736

Recharge from Santa Ana River Redlands Aqueduct Diversions

Redlands Aqueduct Sandbox (AF)	Lower Mill Creek Ponds (AF)	Mentone Reservoir (AF)	Airport Ponds (AF)
60	0	0	709
1013	0	22	2867
59	1582	0	2379

Recharge from Santa Ana River Highline Diversions

Highline Upper Mill Creek (AF)	Gun's Ponds (AF)	Fifth Ave Sand Canyon (AF)
84	6	1
134	19	377
59	26	7

TOTAL Amount Recharged (AF)
2409
8023
8554
344
260
301
231
370
157
97
67
0
0
0
0
1827

