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## **GROUNDWATER COUNCIL MEETING AGENDA**

**MONDAY, FEBRUARY 10, 2020 - 10:00 AM**

**SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT BOARD ROOM**

**380 EAST VANDERBILT WAY, SAN BERNARDINO, CA 92408**

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### **CALL TO ORDER**

### **ROLL CALL FOR QUORUM**

Bear Valley Mutual Water Company (0), City of Colton (3), City of Loma Linda (9), City of Redlands (0), City of Rialto (8), East Valley Water District (15), Fontana Union Water Company (3), Loma Linda University (1), San Bernardino Municipal Water Department (62), San Bernardino Valley Municipal Water District (0), San Bernardino Valley Water Conservation District (0), West Valley Water District (0), Yucaipa Valley Water District (0)

### **INTRODUCTIONS**

### **APPROVAL OF MINUTES**

1. *December 9, 2019, Meeting (Page 3)*

### **OLD BUSINESS**

1. *Consider Approval of Budget Policy Changes for 2020 Year (Page 6)*
2. *Consider Approval of Equitable Allocation and Budget for 2020 (Page 11)*

### **NEW BUSINESS**

1. *Approval of Draft Groundwater Council Annual Report*

### **OTHER BUSINESS**



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## **ADJOURNMENT**

The next regularly scheduled Groundwater Council Meeting will be on April 13, 2020 at 10:00 a.m., at San Bernardino Valley Municipal Water District 380 East Vanderbilt Way San Bernardino, CA 92408

**MINUTES  
OF  
THE  
GROUNDWATER COUNCIL**

**December 9, 2019**

**Registered Guests:**

Jarb Thaipejr, City of Loma Linda  
Josh Swift, Fontana Union Water Company  
Cris Fealy, Fontana Union Water Company  
Linda Jadeski, West Valley Water District  
Katelyn Scholte, San Bernardino Valley Water Conservation District  
Miguel Guerrero, San Bernardino Municipal Water Department  
Madeline Bleu, Yucaipa Valley Water District  
Russ Handy, City of Loma Linda  
Cindy Saks, San Bernardino Valley Municipal Water District  
Steve Miller, San Bernardino Municipal Water Department  
Matthew Howard, San Bernardino Valley Municipal Water District  
Jeff Noelte, East Valley Water District  
Bob Martin, Bear Valley Mutual Water Company  
John Mura, East Valley Water District  
Cecilia Griego, City of Redlands  
Wen Huang, San Bernardino Valley Municipal Water District  
Bob Tincher, San Bernardino Valley Municipal Water District  
Tom Crowley, City of Rialto  
Daniel Cozad, San Bernardino Valley Water Conservation District  
Douglas Headrick, San Bernardino Valley Municipal Water District  
Lillian Hernandez, San Bernardino Valley Municipal Water District

The Groundwater Council meeting was called to order by Tom Crowley at 10:02 a.m. at the San Bernardino Valley Municipal Water District office, 380 E. Vanderbilt Way, San Bernardino.

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 12, 2019, Meeting.

Douglas Headrick moved to approve the minutes of the August 12, 2019, Groundwater Council meeting. Daniel Cozad seconded. The motion was unanimously adopted.

## Agenda Item 2. New Business.

1. **Budget Policy Changes and 2020 Preliminary Budget.** Daniel Cozad presented the preliminary 2020-2021 budget. The Groundwater Council Revenue was listed as \$600,000. The budget was increased this year to include the City of Redlands participation. The large area of expenses includes labor, equipment, and maintenance. A draft proposed budget will be brought back to the February 2020 meeting.

He reviewed the changes made in the Budget Committee Policy which included the 2019 Adjustments to the Equitable Allocation Model (EAM) and Future Development. The changes will help with opportunities to have a better allocation and better calculate the EAM. Some of the changes they see going into future development in the EAM were included. There is a recommendation to have a Date Review/QC Committee. He reviewed the other four changes included on page 11 of the packet.

Katelyn Scholte reviewed the Draft Groundwater Council Equitable Allocation Budget for Fiscal Year 2002-2021 which was handed out at the meeting.

2. **Consider Outline for Proposed Annual Report.** Bob Tincher stated that in the Groundwater Council Agreement it mentions an annual report will be prepared by the Groundwater Council. The Groundwater Council requested that the Basin Technical Advisory Committee's Engineering Subcommittee develop guidelines for the report. The proposed outline included the goals, purpose, basin health, equitable cost sharing, operations plan, and operations and maintenance plan. He requested comments. If the proposed plan is acceptable, the subcommittee will prepare a report and bring it back for review and consideration.

Jarb Thaipejr thanked Douglas Headrick for his leadership and friendship on a professional and personal level.

Daniel Cozad stated that the Groundwater Council would not exist without Douglas Headrick being there and be willing to collaborate. He thanked Mr. Headrick for being steadfast.

Mr. Headrick stated that the way the group has been working through problems has been amazing to him.

## Agenda Item 3. Other Business.

The next regularly scheduled Groundwater Council Meeting will be on February 10, 2020, at 10:00 a.m. at San Bernardino Valley Municipal Water District, 380 E. Vanderbilt Way, San Bernardino, CA 92408.

**Agenda Item 4. Adjournment.**

There being no further business, President Crowley adjourned the meeting 10:46 a.m.

<p><b>APPROVAL CERTIFICATION</b> I hereby certify to approval of the foregoing Minutes of the Groundwater Council.</p> <hr/> <p><b>Secretary</b> Date _____</p>
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Respectfully submitted,

Lillian Hernandez  
Board Secretary

## SAN BERNARDINO BASIN GROUNDWATER COUNCIL

### BUDGET COMMITTEE POLICY Revised 12/10/18 **Proposed revisions 2/10/20**

This policy document was prepared by the Budget Committee (BC) to provide operating policy, rules, and guidelines for the Committee and the San Bernardino Basin Groundwater Council (GC) related to budget, fiscal, and reporting issues. The following members participated in the development of the policy.

John Mura, East Valley Water District  
Daniel Cozad, SBV Water Conservation District  
Miguel Guerrero, City of San Bernardino Municipal Water Department

This document was presented to the GC at its April 9, 2018, meeting and was approved at the May 14, 2018, GC meeting. **The Policy was reviewed and revised in the fall of 2019 and approved on December 9, 2019.**

#### Committee Policy, Rules, and Practices

##### 1. COMMITTEE APPOINTMENTS AND ELECTION OF CHAIR

- a. The GC will appoint members to serve on the BC. The BC recommends that the GC appoint two new members for one-year terms and one incumbent member for an additional one-year term, so at least one member has served on the BC in the prior year. No member shall serve more than two consecutive one-year terms.
- b. The BC will elect a Chair and communicate this election to the President of the GC in its Action Minutes.

##### 2. MEETING AND GENERAL ISSUES

- a. The Chair will schedule in-person or telephone conference meetings at dates and times to meet the needs of the BC.
- b. BC meetings, to the extent possible, will be noticed so other members can participate if they wish.
- c. The BC will develop and revise an audit procedure for the GC to be implemented by the GC.

##### 3. BUDGET DEVELOPMENT AND FINDINGS

The BC is documenting the development process and efforts undertaken in the following areas to cover the requirements and sources of information for each finding that is listed in Section 4.6 of the GC Framework Agreement. Table 1 identifies the sources, timing, and processing of data needed to update the Equitable Allocation Model (EAM) each year. The committee will meet in November each year to ensure all information has been collected from the prior year for the EAM update. The original EAM developed for

approval of agreement uses certified Watermaster and other data from 2016. The EAM will be one year in arrears for allocation. SBVMWD and SBVWCD will provide budget information and backup for the development of the budget for Water Purchase and O&M.

- a) The amount of imported or other water supplies to be acquired will be calculated in the EAM in accordance with Exhibit B of the GC Framework Agreement. This information will be combined into a summary table similar to the one shown in Attachment A-1 to this policy.
- b) Estimated O&M costs and any supporting information will be prepared by the SBVWCD in coordination with any other entity performing O&M on recharge basins for the BC. This information will be combined with costs for imported or other water supplies and incorporated into the summary table similar to Attachment A-2 to this policy.
- c) The BC, in November, will coordinate with the BTAC Engineering Subcommittee recommended application or distribution of imported water locations and quantities based on the EAM. This would be developed by the BTAC Engineering Subcommittee and will be incorporated into a summary table and map similar to the one shown in Attachment B to this policy.
- d) The BC, at its first meeting, will discuss and determine if any administrative costs for the GC operations should be included in the budget and assess the collection and uses. No administrative costs are budgeted, but if costs are planned in future years, they would be incorporated into Attachment A-2.
- e) Finally, based on the EAM, a proposed allocation of costs for Water Purchase and O&M will be determined and shown in summary in Attachment A-2.

### **2020 Adjustments to EAM and Future Development**

In the first budget after adoption, several adjustments and modifications were made to the EAM to fulfill the agreement intent and maintain the integrity of the EAM. These issues were addressed in the 2019 approved budget. Again in late 2018 and early 2019, issues arose, which prompted the Budget Committee to propose changes in the calculation of the EAM for the 2020 budget year. These will be/have been reviewed by the Groundwater Council and are summarized below.

- (1) A Data Review/QC Committee will be formed with representatives from surface water users and groundwater producers to evaluate the quality of data and measurement of flows on a regular basis, at least twice per year. All members will ensure their stated diversions or production is accurate and balances total flows. The Committee will review any data that is needed but not otherwise published to provide background and justification for its use, so it can be adopted (published) as part of the EAM and Budget process. For the future, the simplification and value engineering team will review the EAM to determine if it can be simplified or consolidated without losing the inherent equity determined in the initial version.

- (2) The GG will review the percentage of the EAM cost attributed to historical use and consider reducing or retiring it when the agreement is renewed or phased in over time to reflect actual use better, reward reduced surface and groundwater use, and be consistent with local, state, and federal water use efficiency initiatives.
- (3) Unit fees (per acre foot) charged by any group for recharge will be specifically considered by the GC, and if such charge implemented, it would take effect at agreement renewal or phased in several years to avoid rapid changes to contributions. Evaluation of the benefit equity will be determined when assessed or during the phased-in.
- (4) The Budget Committee recommends agencies provide meters meeting State Diversion requirements at North Fork Flume, Redlands Sandbox, and Cooley Hat, in order to provide accurate calculations and credits to the EAM.
- (5) The EAM calculation will not include imported water purchased by any member via Groundwater Council funding. Only water that is purchased above and beyond the GC funding amount, which benefits the basin, will be shown as a credit to the purchasing agency.

#### 4. BUDGET PROCESS AND TIMING

In accordance with Section 4.6.2 and 4.6.3 of the GC Framework Agreement, the BC recommends the following schedule for the development of the background surface and groundwater data needed to update the EAM and budget development.

- October – Staff collect Watermaster and other data identified in Table 1 and process and review it to update the EAM. Much of this data should be included in the annual basin groundwater report. If needed, the GC will coordinate with the BTAC Engineering Subcommittee.
- November/December – BC meets to review EAM and preliminary water purchase and O&M budgets, as well as any other preliminary information needed to form the preliminary budget.
- February – BC meets to review EAM, projected water purchase, O&M budgets, and recommend a draft budget to the GC.
- February/March – BC presents the EAM and budget to the GC, incorporates comments or changes and prepares a final budget for GC member budgets
- April/May – GC meets to approve the GC budget formally
- July – SBVMWD and SBVWCD send invoices for EAM allocated member costs.
- September /October – GC meets to review actual revenue and expenses and plan for the next year’s budget. The GC may provide an informal or formal report on actual income and expenses for the prior year.

A request for a Budget Amendment may be made by any member of the GC to the Chair of the BC for consideration at its next meeting. Budget amendments may be rare but are likely the result of unexpected circumstances or changes in hydrology or member participation.

#### 5. COLLECTION PAYMENT AND REPORTING

In accordance with the GC Framework Agreement, SBVMWD will collect Water Purchase funds from members in a procedure described below:

After approval of the GC Budget and July 1 of each year, SBVMWD will prepare an invoice for the Water Purchase component of the GC's EAM for each participating agency. This invoice will be due within 60 days from the date of the invoice unless the entity has requested, and the Executive Committee (President, vice president, and secretary) or GC has approved another payment term. Should another payment term be accepted, the amount due will be collected with those terms. If the payment is not made within the appropriate time, a late notice shall be prepared and sent to the agency and reported to the BC and GC President. If the GC approves terms where an agency can hold funds to be remitted at a later date, the entity will remit a warrant or credit letter committing to remit the funds within 30 days of a request for remittance plus any interest or fee the GC approves. Funds received from members or interest shall be segregated into a separate GC Water Purchase account or fund, which allows the SBVMWD to account and report on the transactions of the fund apart from other SBVMWD funds.

In accordance with the Framework Agreement, SBVWCD will collect O&M funds from members in a procedure described below:

After the GC approves the annual budget and shortly after July 1 of each year, SBVWCD will prepare an invoice for each agency assigned O&M contribution from the EAM and approved Budget. This invoice will be due within 60 days from the date of the invoice unless the entity has requested, and the Executive Committee or GC has approved another payment term. Should another payment term be accepted, the amount due will be collected with those terms. If the payment is not made within the appropriate time, a late notice shall be prepared and sent to the agency and reported to the BC and GC President. Funds received shall be segregated into an account which allows the SBVWCD to account for and report this income separately from other SBVWCD funds.

Both SBVMWD and SBVWCD will collaborate in preparing a financial report for the GC on a monthly basis or for each meeting of the GC. The report will show amounts collected from each member for O&M and Water Purchase and any expenses paid for imported water or held and invested for future purchases.

#### 6. INVESTMENT OF FUNDS FOR WATER PURCHASE

As members remit funds to SBVMWD in accordance with the procedures above, it is likely in some years; some funds will be in excess of that needed for Water Purchase. SBVMWD shall invest any funds in excess of those required in interest-bearing investments in accordance with SBVMWD's then applicable Investment Policy. Interest earned by these funds shall accrue to the GC Water Purchase Fund. Should other

remittance terms be needed by members, those terms would be approved by the Budget Committee and or Executive Committee, and interest potentially collected from such terms should not exceed that actually earned by funds invested from the Water Purchase Fund.

#### 7. AUDIT PROCEDURE AND IMPLEMENTATION

The GC requested the BC develop an Audit Approach and Procedure for the GC. The committee prepared and reviewed a draft procedure which as reviewed by the GC on December 10, 2018, and approved. The approach and procedure were incorporated into the BC policy at Attachment B to this document. The procedure will be implemented upon the request of the GC, and an Ad Hoc Audit committee will be implemented by the committee with support as requested.

DRAFT Groundwater Council Equitable Allocation Budget for FY 2020-21

Agency	Party Gap FY 2020-21 (AF)	Sustainability FY 2020-21 (AF)	Estimated Total Water Cost (\$)	Equitable O&M Costs FY 2020-21 (\$)	Estiamted Total Party Costs 2020-21 (\$)	Cost Increase from 2019-20 (\$)	Voting Weight 2020-21
Bear Valley Mutual Water Company	-	-	\$ -	\$ -	\$ -	\$ (277)	0.00%
City of Colton	-	589	\$ 69,762	\$ 26,896	\$ 96,657	\$ 1,454	3.2%
City of Loma Linda	1,293	743	\$ 241,042	\$ 37,545	\$ 278,587	\$ 9,599	9.1%
City of Redlands	-	1,005	\$ 119,002	\$ 137,924	\$ 256,926	\$ (259,326)	8.4%
City of Rialto	1,667	948	\$ 309,639	\$ 39,372	\$ 349,011	\$ 172,687	11.4%
City of San Bernardino	5,091	6,253	\$ 1,343,115	\$ 287,692	\$ 1,630,807	\$ (246,313)	53.5%
East Valley Water District	-	1,412	\$ 167,215	\$ 105,872	\$ 273,088	\$ (52,686)	9.0%
Fontana Union Water Company	-	618	\$ 73,200	\$ 23,642	\$ 96,842	\$ 16,527	3.2%
Loma Linda University	-	161	\$ 19,104	\$ 7,177	\$ 26,281	\$ 1,346	0.9%
San Bernardino Valley M.W.D.	128	57	\$ 21,962	\$ 2,584	\$ 24,546	\$ 16,540	0.8%
West Valley Water District	-	1,573	\$ 186,279	#N/A	\$ 186,279	\$ 117,776	#N/A
Yucaipa Valley Water District	107	18	\$ 14,759	\$ 1,296	\$ 16,054	\$ 8,839	0.5%
<b>Total GC Parties:</b>	<b>8,285</b>	<b>13,379</b>	<b>\$ 2,565,078</b>	<b>\$ 670,000</b>	<b>\$ 3,235,078</b>	<b>\$ (304,251)</b>	<b>100%</b>
Mountain View Power Co.	-	296	\$ 35,104	#N/A	\$ 35,104	\$ (9,628)	#N/A
Muscoy Mutual Water Company No. 1	-	242	\$ 28,674	#N/A	\$ 28,674	\$ 2,786	#N/A
San Bernardino County - Facility Management	-	107	\$ 12,625	#N/A	\$ 12,625	\$ 1,008	#N/A
Terrace Water Company	-	70	\$ 8,288	#N/A	\$ 8,288	\$ (411)	#N/A
Other San Bernardino Extractions	-	1,244	\$ 147,347	#N/A	\$ 147,347	\$ 16,370	#N/A
<b>San Bernardino Non-Parties Total:</b>	<b>-</b>	<b>1,960</b>	<b>\$ 232,038</b>	<b>\$ -</b>	<b>\$ 232,038</b>	<b>\$ (69,464)</b>	<b>0%</b>
<b>Western Entities Total:</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>#N/A</b>	<b>\$ -</b>	<b>\$ (249,755)</b>	<b>0%</b>
<b>Total:</b>	<b>8,285</b>	<b>15,339</b>	<b>\$ 2,797,116</b>	<b>\$ 670,000</b>	<b>\$ 3,467,116</b>	<b>\$ (623,470)</b>	<b>100%</b>

DRAFT Calculation for FY 2020-21

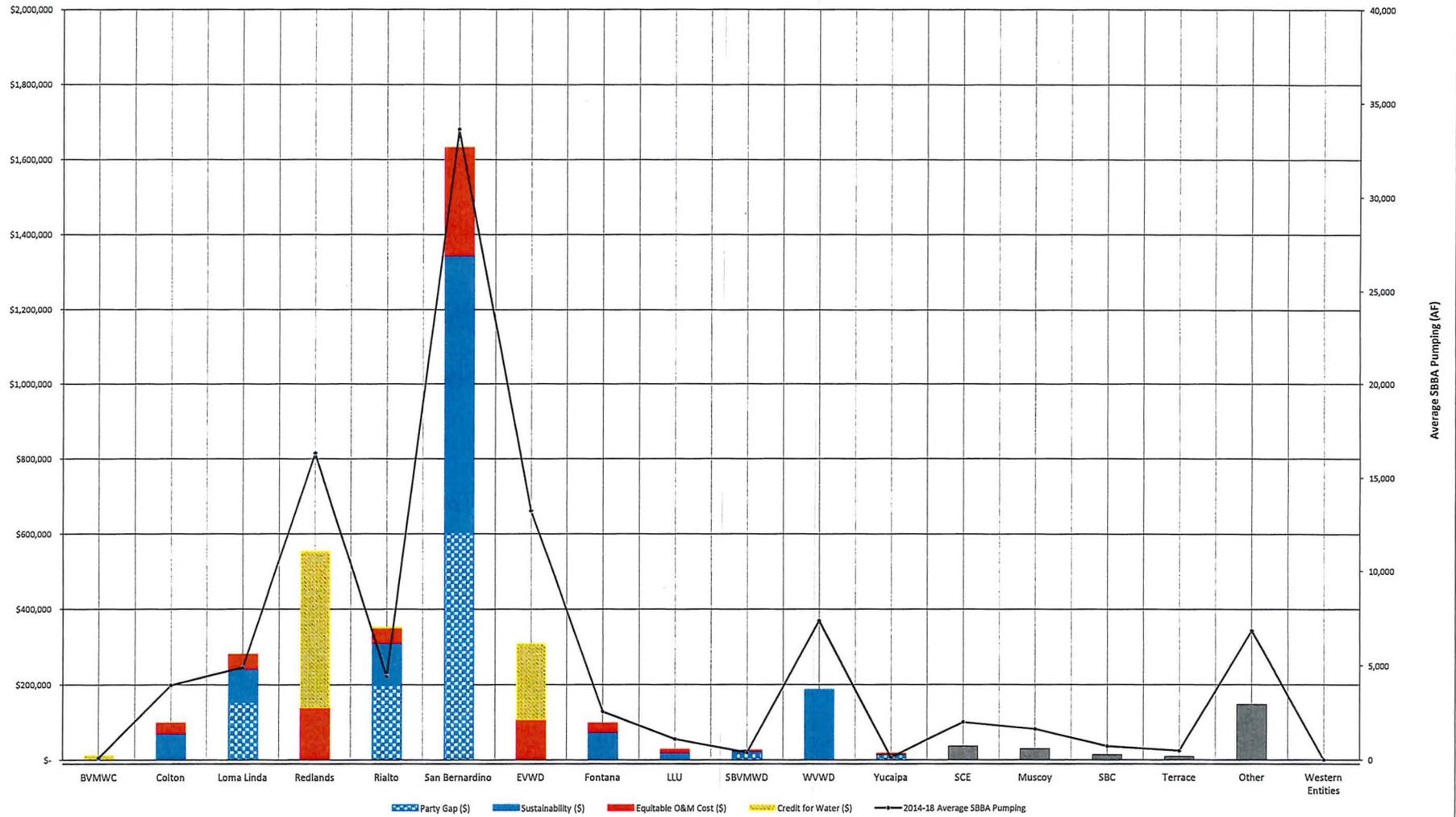
Calculation for 2020-21									
Precipitation Adjustment	0%	Sustainable Amount (AF)	28,823	Base Period Safe Yield	72,096	New Conservation	187,238	Present Safe Yield	172,743
Recharge	95%	Budgeted Water Cost	3,412,643	Non-Plaintiff	27,096	Plaintiff	64,862	2,134	68,898
Direct Use	100%	Budgeted O&M Cost SBWCD	600,000						
SWP Cost Recharge (\$/AF)	118	Budgeted O&M Cost SBFCDC	70,000						
		Budgeted Admin Costs	5						

Base Period		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
Agency	Abbreviation	1959	1960	1961	1962	1963	1959-63 Average GW + SW (AF)	Other Distribution	Recycled Water (AF)	1959-1963 Total Average Use (AF)	% of Total	Safe Yield (AF)	Safe Yield % of Total	SW <sub>1959-63</sub> (AF)	GW <sub>1959-63</sub> (AF)	Demand <sub>2017</sub> (AF)	GW <sub>1959-63</sub> (AF)	SW <sub>1959-63</sub> (AF)	Gap <sub>1959-63</sub>				
Bear Valley Mutual Water Company	BVMWC	16,855	13,583	14,273	11,626	9,931	13,234	574	-	13,807	7.77%	13,076	5.60%	8,344	4,652	(10,181)	4,652	8,344	2,815				
City of Colton	Colton	2,814	3,606	3,205	3,743	3,267	3,247	-	-	3,247	1.84%	3,150	1.36%	-	3,150	(3,493)	3,150	-	(451)				
City of Loma Linda	Loma Linda	0	0	0	0	0	-	-	-	1,795	1.11%	1,855	0.80%	-	1,855	(5,158)	1,855	-	(3,303)				
City of Redlands	Redlands	19,378	19,941	18,736	20,758	16,676	19,098	7,092	2,068	28,258	15.90%	28,586	11.40%	6,864	19,735	(28,302)	19,735	6,864	(1,703)				
City of Rialto	Rialto	1,659	795	959	1,068	1,397	1,176	833	-	2,008	1.13%	1,890	0.81%	617	1,273	(6,411)	1,273	617	(4,521)				
City of San Bernardino	SBWWD	17,788	16,099	18,448	17,775	16,456	17,109	3,448	-	20,637	11.43%	10,425	4.37%	1,208	18,219	(39,524)	18,219	1,208	(20,099)				
East Valley Water District	EWVD	6,399	6,754	7,528	6,998	7,394	7,015	7,768	-	14,723	8.29%	19,858	5.97%	97	13,800	(18,694)	13,800	97	(4,536)				
Fontana Union Water Company	FWC	19,841	15,649	13,295	14,674	12,086	15,109	-	-	15,109	8.50%	14,221	6.13%	6,688	7,533	(4,791)	7,533	6,688	943				
Loma Linda University	LLU	1,011	1,116	1,202	1,166	901	1,079	-	-	1,079	0.61%	1,018	0.44%	-	1,016	(986)	1,016	-	30				
Mountain View Power Co.	SCE	1,410	1,219	1,425	795	744	1,105	-	-	1,105	0.62%	1,040	0.46%	-	1,040	(853)	1,040	-	177				
Mussey Mutual Water Company No. 1	MMWC	1,943	1,870	2,028	1,863	1,684	1,878	-	-	1,878	1.06%	1,797	0.76%	-	1,797	(1,649)	1,797	-	148				
San Bernardino County - Facility Management	SBCC	636	615	809	564	386	602	825	-	1,427	0.80%	1,344	0.58%	-	1,344	(846)	1,344	-	498				
San Bernardino Valley M.W.D.	SBVMWD	0	0	0	0	0	0	-	-	0	0.00%	0	0.00%	-	(355)	-	-	-	(355)				
Terrace Water Company	Terrace	1,318	921	1,077	1,013	899	1,045	-	-	1,045	0.59%	988	0.42%	-	984	(843)	984	-	641				
West Valley Water District	WVWD	13,554	12,090	13,587	11,331	11,837	12,486	-	-	12,486	7.03%	11,752	5.06%	3,558	8,165	(11,006)	8,165	3,558	746				
Yucalapa Valley Water District	YVWD	0	0	0	0	0	0	-	-	0	0.00%	0	0.00%	-	-	(178)	-	-	(178)				
Other Non-Plaintiff Extractions	Other	85,866	79,574	84,089	81,724	79,895	81,030	(21,285)	-	58,795	33.09%	55,241	23.84%	5,886	49,455	(7,305)	49,455	5,886	48,036				
Non-Plaintiff Total:		189,282	173,432	180,762	174,828	157,454	175,372	-	2,303	177,475	100%	179,238	72.65%	33,259	133,988	(140,246)	133,988	33,259	26,392				
Plaintiff Total:		70,373	64,847	70,944	65,102	67,862	64,862	-	-	64,862	100%	64,862	27.95%	-	-	-	-	-	64,862				
Total:		260,355	238,699	251,706	239,930	225,316	240,234	-	-	242,337	100%	244,100	100%	33,259	136,850	-	-	-	91,254				

Current (last 5 years)		2014-18 (5 years)					Present Period Net SBBA GW + SW Production (AF)					Total Average Use, 2014-18 (AF)					Safe Yield Distribution				Total SBBA Demand	Groundwater	Average Surface Water	Recycled Water (RWUM, 2015)	Total Present Period
Agency	Abbreviation	2014	2015	2016	2017	2018	Average SBBA Use 2014-18 (AF)	SWP (AF)	Recycled Water (AF)	Party Water Use (AF)	% of Total	Safe Yield (AF)	Safe Yield % of Total	SW <sub>1959-63</sub> (AF)	GW <sub>1959-63</sub> (AF)	Demand <sub>2017</sub> (AF)	GW <sub>1959-63</sub> (AF)	SW <sub>1959-63</sub> (AF)	New Direct Recycled (AF)	New Recycled (AF)	Net New Recycled (AF)	Gap <sub>1959-63</sub>			
Bear Valley Mutual Water Company	BVMWC	5,205	4,229	8,928	10,332	10,181	7,775	1,137	-	8,912	6.0%	10,450	4.36%	7,692	2,758	(10,181)	2,758	7,692	-	-	-	309			
City of Colton	Colton	4,879	4,405	3,044	3,842	3,695	3,973	-	-	3,973	2.7%	4,659	1.94%	-	4,659	(3,695)	4,659	-	-	-	-	964			
City of Loma Linda	Loma Linda	5,449	4,670	4,208	5,070	5,158	4,911	100	-	5,011	3.4%	5,876	2.45%	-	5,876	(5,158)	5,876	-	-	-	-	718			
City of Redlands	Redlands	34,586	25,024	22,021	25,538	25,227	26,481	376	3,399	30,256	20.5%	33,429	14.80%	10,185	25,244	(28,302)	25,244	10,185	5,467	3,399	10,577	3,399			
City of Rialto	Rialto	8,133	5,215	4,429	5,149	5,467	5,102	992	11	6,470	4.4%	7,978	3.16%	1,032	6,555	(6,411)	6,555	1,032	11	11	1,187	1,187			
City of San Bernardino	SBWWD	43,084	32,503	23,588	29,154	39,524	33,571	8,592	-	42,163	28.6%	49,441	20.62%	49,441	49,441	(39,524)	49,441	49,441	-	-	-	9,917			
East Valley Water District	EWVD	21,192	18,876	12,099	19,802	22,723	18,938	2,003	-	20,942	14.7%	24,556	10.24%	5,704	18,853	(18,694)	18,853	5,704	-	-	-	5,862			
Fontana Union Water Company	FWC	5,530	3,761	2,652	4,112	4,791	4,169	-	-	4,169	2.8%	4,888	2.04%	1,605	3,283	(4,791)	3,283	1,605	-	-	-	97			
Loma Linda University	LLU	1,281	1,164	1,019	990	986	1,088	-	-	1,088	0.7%	1,278	0.53%	-	1,278	(866)	1,278	-	-	-	-	390			
Mountain View Power Co.	SCE	2,658	2,573	2,013	1,889	863	1,999	854	-	1,999	1.4%	2,344	0.98%	-	2,344	(863)	2,344	-	-	-	-	1,481			
Mussey Mutual Water Company No. 1	MMWC	1,739	1,591	1,534	1,652	1,649	1,633	-	-	1,633	1.1%	1,915	0.80%	-	1,915	(1,649)	1,915	-	-	-	-	266			
San Bernardino County - Facility Management	SBCC	803	647	458	-	846	846	719	-	719	0.5%	843	0.35%	-	843	(646)	843	-	-	-	-	197			
San Bernardino Valley M.W.D.	SBVMWD	932	648	-	-	355	387	-	-	387	0.3%	454	0.19%	-	454	(355)	454	-	-	-	-	99			
Terrace Water Company	Terrace	660	473	420	464	343	472	-	-	472	0.3%	533	0.23%	-	533	(343)	533	-	-	-	-	210			
West Valley Water District	WVWD	11,357	10,285	6,749	9,328	11,026	9,755	884	-	10,639	7.2%	12,440	5.19%	2,352	10,088	(11,006)	10,088	2,352	-	-	-	1,434			
Yucalapa Valley Water District	YVWD	154	5	192	110	122	-	-	-	122	0.1%	143	0.06%	-	143	(178)	143	-	-	-	-	(35)			
Other San Bernardino Extractions	Other	10,240	8,423	8,232	6,726	7,305	8,203	188	-	8,392	5.7%	9,640	4.10%	1,345	8,495	(7,305)	8,495	1,345	-	-	-	2,535			
San Bernardino Entities Total:		157,802	124,502	101,565	122,956	141,241	129,633	14,273	3,410	147,316	100%	172,743	72.62%	29,915	142,830	(140,246)	142,830	29,915	5,478	-	3,410	35,868			
Western Entities Total:		-	-	-	-	-	66,998	-	-	-	-	66,998	27.83%	-	-	-	-	-	-	-	-	-			
Total:		157,802	124,502	101,565	122,956	141,241	196,632	-	-	214,314	100%	239,743	100%	29,915	142,830	-	-	-	-	-	-	-			

BUDGET - FY2020-21 Calculation												
Agency	Party Gap (AF) (Gap <sub>1959-63</sub> * Gap <sub>1959-63</sub> )/2	Equitable Water Costs				Equitable O&M Costs			Total (2020-21)			
		Water Use (%)	Sustainability (AF)	Credit for Water (AF)	Total Water (AF)	Estimated Total Water Cost (\$)	Proportion of Total Pumping	Equitable O&M Costs	Equitable Admin Costs	Estimated Total Party Costs (\$)	Weighting	
Bear Valley Mutual Water Company	0	0.1%	12	91	-	5	-	5	-	5	-	0.0%
City of Colton	0	2.9%	589	-	589	\$ 69,762	2.4%	5	14,896	5	14,901	6.3%
City of Loma Linda	1,283	3.6%	743	-	2,026	\$ 241,043	3.3%	5	37,445	5	278,587	9.3%
City of Redlands	0	21.8%	4,487	3,482	1,005	\$ 119,007	12.3%	5	137,924	5	256,926	8.4%
City of Rialto	1,667	4.7%	960	11	2,615	\$ 309,639	3.5%	5	39,372	5	349,011	11.4%
City of San Bernardino	5,091	30.4%	6,253	-	11,344	\$ 1,343,115	25.7%	5	287,692	5	1,630,807	53.5%
East Valley Water District	0	15.1%	3,108	1,693	1,412	\$ 167,215	9.4%	5	105,673	5	272,888	9.0%
Fontana Union Water Company	0	3.0%	618	-	618	\$ 73,200	2.1%	5	33,642	5	96,842	3.2%
Loma Linda University	0	0.8%	161	-	161	\$ 19,104	0.6%	5	7,177	5	26,281	0.9%
San Bernardino Valley M.W.D.	128	0.3%	57	-	185	\$ 21,982	0.2%	5	2,584	5	24,566	0.8%
West Valley Water District	0	7.7%	1,573	-	1,573	\$ 186,279	5.0%	5	186,279	5	372,558	12.3%
Yucalapa Valley Water District	107	0.1%	18	-	125	\$ 14,959	0.1%	5	1,796	5	16,054	0.5%
Total GC Parties:	8,285	90.5%	18,578	5,277	31,443	\$ 2,583,078	65.25%	5	470,000	5	3,233,078	100%
Mountain View Power Co.	0	1.4%	296	-	296	\$ 35,104	0.6%	5	4,284	5	39,388	1.2%
Mussey Mutual Water Company No. 1	0	1.2%	242	-	242	\$ 28,674	1.1%	5	3,414	5	32,088	1.0%
San Bernardino County - Facility Management	0	0.5%										

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



11/25/19

Extraction Data and Adjustments

Entity	Verified Total Extractions										Pumping Adjustments										Other Distribution Verified Extractions										Credits for Water to the Basin				
	2014	2015	2016	2017	2018	2014	2015	2016	2017	2018	2014	2015	2016	2017	2018	2014	2015	2016	2017	2018	2018	1999-2018	2018	AVG	Total 2018										
1 Agency	1959	1960	1961	1962	1963	2014	2015	2016	2017	2018	2014	2015	2016	2017	2018	1959	1960	1961	1962	1963	AVG	2018	1999-2018	2018	AVG	Total 2018									
4 Bear Valley Mutual Water Company	24,597	20,706	19,405	18,864	15,612	9,597	11,667	9,341	16,396	11,511	-	-	-	-	-	-	-	1,012	974	882	574	-	-	-	91	91									
5 City of Colton	2,814	3,606	3,305	3,243	3,267	4,879	4,495	3,944	3,862	3,695	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
6 City of Loma Linda	-	-	-	-	-	5,449	4,979	4,708	5,091	5,116	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
7 City of Redlands	18,717	19,264	18,365	19,901	15,922	29,103	18,524	16,319	24,216	21,710	-	-	-	-	-	7,302	6,245	8,554	7,022	6,439	7,092	5,467	2,068	83	3,482	3,482									
8 City of Rialto	1,559	795	959	1,058	1,372	4,132	3,226	4,291	3,885	4,413	4,401	2,431	1,727	1,692	1,998	959	817	875	1,033	470	833	11	-	-	11	11									
9 City of San Bernardino	17,704	16,091	18,444	17,575	18,454	44,798	37,455	36,519	38,479	40,158	12,740	10,000	10,000	10,000	10,000	4,131	3,204	3,033	3,070	2,811	3,468	-	-	-	-	-									
10 East Valley Water District	6,399	6,745	7,486	6,876	7,281	17,896	13,500	13,791	15,214	14,545	-	-	-	-	-	7,803	7,044	6,530	6,352	7,621	7,208	-	-	-	1,691	1,691									
11 Fontana Union Water Company	19,841	15,469	13,295	14,674	12,086	5,530	3,761	2,650	4,112	4,791	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
12 Loma Linda University	1,011	1,116	1,202	1,166	901	1,201	1,154	1,019	990	966	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
13 Mountain View Power Co.	1,410	1,210	1,425	796	744	3,658	2,573	2,013	1,889	1,869	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
14 Mucody Mutual Water Company No. 1	1,943	1,870	2,018	1,863	1,684	1,739	1,591	1,534	1,652	1,643	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
15 San Bernardino County - Facility Management	836	615	809	756	386	823	667	458	841	846	-	-	-	-	-	1,045	733	873	871	655	825	-	-	-	-	-									
16 San Bernardino Valley M.W.D.	-	-	-	-	-	8,178	6,874	5,643	4,921	6,327	17,246	16,240	15,643	14,921	15,927	-	-	-	-	-	-	-	-	-	-	-									
17 Terrace Water Company	1,318	921	1,077	1,012	899	660	473	420	464	343	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
18 West Valley Water District	13,584	13,090	13,587	13,331	11,897	6,768	7,047	4,862	7,108	6,666	4,959	4,164	4,132	3,368	4,640	-	-	-	-	-	-	-	-	-	-	-									
19 Yucaipa Valley Water District	-	-	-	-	-	154	5	162	110	178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
20 Other San Bernardino Extractions	78,785	73,137	79,371	79,455	68,962	10,260	8,433	8,233	6,796	7,305	-	-	-	-	-	12,147	12,033	12,507	12,051	12,018	12,235	-	-	-	-	-									
21 San Bernardino Entities Total:	189,982	173,832	180,762	174,828	157,454	161,020	129,964	117,412	153,456	134,866	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
24 City of Riverside	25,983	23,024	24,687	24,191	22,379	15,926	16,281	16,141	21,829	18,995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
25 City of Riverside - Gage Canal	31,805	20,019	30,470	28,440	26,099	33,597	32,756	28,251	28,627	30,993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
26 Madera & Delaney Water Company	7,282	8,037	9,399	7,550	7,554	7,103	7,151	7,220	7,218	7,217	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
27 Regents of University of California	538	546	610	564	425	536	554	554	554	534	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
28 Riverside Inland Water Co.	4,745	4,741	5,335	4,447	3,316	3,016	3,400	3,649	3,603	2,641	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
29 Western Entities Total:	70,373	64,867	70,944	65,102	60,983	59,148	61,342	57,446	60,131	60,300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
31 Total:	240,355	238,699	251,706	239,930	218,437	220,168	191,306	174,858	213,587	195,466	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									

Entity	SWP Spreading Delivery					SWP Direct Delivery					TOTAL SWP Water				
	2014	2015	2016	2017	2018	2014	2015	2016	2017	2018	2014	2015	2016	2017	2018
14 Agency	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 Bear Valley Mutual Water Company	-	-	-	-	-	8	-	5,209	466	-	8	-	5,209	466	-
37 City of Colton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38 City of Loma Linda	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39 City of Redlands	-	-	-	-	-	423	-	781	129	-	423	-	1,311	129	-
40 City of Rialto	-	-	-	-	-	942	1,580	2,478	-	-	942	1,580	2,478	-	-
41 City of San Bernardino	-	-	-	-	-	1,672	3,065	5,966	5,816	-	1,672	7,608	18,681	15,001	-
42 East Valley Water District	-	-	-	-	-	204	294	927	297	522	204	294	6,995	2,001	522
43 Fontana Union Water Company	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44 Loma Linda University	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45 Mountain View Power Co.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46 Mucody Mutual Water Company No. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47 San Bernardino County - Facility Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48 San Bernardino Valley M.W.D.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49 Terrace Water Company	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 West Valley Water District	-	-	-	-	-	926	2,245	1,250	-	-	926	2,245	1,250	-	-
51 Yucaipa Valley Water District	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 Other San Bernardino Extractions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53 San Bernardino Entities Total:	-	-	-	-	-	2,306	3,359	13,883	7,649	522	2,306	9,770	36,550	22,316	522

Entity	Lotic Creek					Mill Creek				
	1959	1960	1961	1962	1963	1959	1960	1961	1962	1963
14 Agency	-	-	-	-	-	-	-	-	-	-
59 Bear Valley Mutual Water Company	-	-	-	-	-	-	-	-	-	-
60 City of Colton	-	-	-	-	-	-	-	-	-	-
61 City of Loma Linda	-	-	-	-	-	-	-	-	-	-
62 City of Redlands	-	-	-	-	-	-	-	-	-	-
63 City of Rialto	624	626	625	587	624	922	998	996	1,241	1,002
64 City of San Bernardino	1,069	994	1,285	1,403	1,279	-	-	-	-	-
65 East Valley Water District	-	-	-	-	-	-	-	-	-	-
66 Fontana Union Water Company	8,484	5,833	4,358	6,526	6,239	1,215	1,223	605	3,419	1,543
67 Loma Linda University	-	-	-	-	-	-	-	-	-	-
68 Mountain View Power Co.	-	-	-	-	-	-	-	-	-	-
69 Mucody Mutual Water Company No. 1	-	-	-	-	-	-	-	-	-	-
70 San Bernardino County - Facility Management	-	-	-	-	-	-	-	-	-	-
71 San Bernardino Valley M.W.D.	-	-	-	-	-	-	-	-	-	-
72 Terrace Water Company	-	-	-	-	-	-	-	-	-	-
73 West Valley Water District	4,399	3,766	2,424	4,393	4,097	1,818	3,283	1,666	3,442	2,549
74 Yucaipa Valley Water District	-	-	-	-	-	-	-	-	-	-
75 Other San Bernardino Extractions	-	-	-	-	-	-	-	-	-	-
76 San Bernardino Entities Total:	14,436	10,219	8,493	14,909	12,239	4,533	6,084	3,892	7,697	5,449

Entity	Santa Ana River					Bear Valley Santa Ana River					Base Period Santa Ana River Diversion				
	1959	1960	1961	1962	1963	2014	2015	2016	2017	2018	1959	1960	1961	1962	1963
81 Agency	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
82 Bear Valley Mutual Water Company	12,830	9,570	6,781	6,554	5,722	5,163	3,865	6,912	10,320	10,181	7,081	-	6,446	4,761	6,381
83 City of Colton	-	-	-	-	-	-	-	-	-	-	117	-	78	70	103
84 City of Loma Linda	-	-	-	-	-	-	-	-	-	-	12,424	-	6,403	6,585	6,774
85 City of Redlands	661	677	371	857	754	7,738	8,304	7,077	4,634	6,592	19,822	-	15,927	11,416	13,258
86 City of Rialto	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
87 City of San Bernardino	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
88 East Valley Water District	0	9	42	122	113	3,296	5,376	5,376	6,292	8,178	266	-	170	198	180
89 Fontana Union Water Company	-	-	-	-	-	-	-	-	-	-	4709	-	4699	7791	5156
90 Loma Linda University	-	-	-	-	-	-	-	-	-	-	4975	-	4979	7987	5336
91 Mountain View Power Co.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
92 Mucody Mutual Water Company No. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
93 San Bernardino County - Facility Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
94 San Bernardino Valley M.W.D.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 Terrace Water Company	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96 West Valley Water District	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
97 Yucaipa Valley Water District	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
98 Other San Bernardino Extractions	7,081	6,437	4,718	6,359	4,933	-	-	-	-	-	-	-	-	-	-
99 San Bernardino Entities Total															