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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 12, 2022 – 10:00 AM

CALL TO ORDER

ROLL CALL FOR QUORUM

Bear Valley Mutual Water Company (0), City of Colton (2), City of Loma Linda (9), City of Redlands (6), City of Rialto (8), East Valley Water District (4), Fontana Union Water Company (3), Loma Linda University (1), San Bernardino Municipal Water Department (53), 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 8, 2022, Meeting Minutes (Page 3)*
[Groundwater Council Meeting Minutes August 8, 2022](#)

2. NEW BUSINESS

- 2.1 *The Renewal Subcommittee is Recommending a \$19,947 Modeling Study to Determine How Much Diverted Local Surface Water Would Recharge if it Were Not Diverted (Page 8)*
[Request for Proposals - San Bernardino Basin GC Local Water Modeling Proposal from Geoscience](#)
[Cost Sharing for Modeling based on Voting Weight](#)

- 2.2 *State Water Project Update*

3. OLD BUSINESS

- 3.1 *Review Renewal Committee Recommendations Approved at the last meeting and Effective Date (Page 15)*
[Recommendations of Renewal Committee Approved by GC on August 8, 2022](#)

4. OTHER BUSINESS
5. SET DATE FOR NEXT MEETING
6. ADJOURNMENT

**MINUTES
OF
THE
GROUNDWATER COUNCIL**

August 8, 2022

Registered Guests:

Thomas Crowley, City of Rialto

Betsy Miller, San Bernardino Valley Water Conservation District

Katelyn Scholte, San Bernardino Valley Water Conservation District

Steve Miller, San Bernardino Municipal Water Department

Gil Botello, San Bernardino Valley Municipal Water District

Susan Longville, San Bernardino Valley Municipal Water District

Bob Tincher, San Bernardino Valley Municipal Water District

Cindy Saks, San Bernardino Valley Municipal Water District

Jose Macedo, San Bernardino Valley Municipal Water District

Matt Howard, San Bernardino Valley Municipal Water District

Adekunle Ojo, San Bernardino Valley Municipal Water District

Kristeen Farlow, San Bernardino Valley Municipal Water District

Sam Fuller, Bear Valley Mutual Water Company

George Hanson, Bear Valley Mutual Water Company

Cris Fealy, Fontana Union Water Company

Josh Swift, Fontana Union Water Company

Jarb Thaipejr, City of Loma Linda

Jeff Noelte, East Valley Water District

Linda Jadeski, West Valley Water District

Joanne Chan, West Valley Water District

Mallory Gandara, Western Municipal Water District

Jennifer Ares, Yucaipa Valley Water District

Brian Dickinson, City of Colton

John Harris, City of Redlands

Leo Ferrando, City of Riverside Public Utilities

Michael Plinski, City of Riverside Public Utilities

Jesus Gastelum, Elsinore Valley Municipal Water District

Russ Handy, City of Loma Linda

Daniel Cozad

The Groundwater Council meeting was called to order by chair Thomas Crowley at 10:00 a.m. by teleconference.

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

1. Approval of Minutes.

1.1 June 13, 2022, Meeting.

Steve Miller moved to approve the minutes of the June 13, 2022, Groundwater Council meeting. Jarb Thaipejr, seconded. The minutes were approved, by a non-roll-call vote.

2. New Business.

2.1 Presentation of the Draft 2021 San Bernardino Basin Groundwater Council Annual Report

As part of the reporting requirement of the Groundwater Council Framework Agreement, the Council puts together an annual report consisting of financial information, operations and maintenance update, and State Water Project deliveries. The purpose of the report is to provide status on basin storage, water purchases and maintenance activities.

Mr. Howard provided an overview of the report design. The operations and maintenance section highlighted the behind-the-scenes activities that support recharge operations such as the cleaning of Waterman basins. The finance section highlights the expenditures for the year. The operations and maintenance fund was fully expended but the water fund currently has just over \$3 million, which is enough to purchase approximately 25,500-acre feet of water to recharge when it becomes available through the State Water project.

Mr. Jarb Thaipejr addressed corrections to the pictures from the Operations and Maintenance and the Finance section. Mr. Howard acknowledged the updates and requested comments for updates by August 17th. Mr. Jarb Thaipejr asked for an added section to communicate the amount of groundwater in the basin.

Mr. Howard asked the GC for guidance on printed copies to the public, elected officials, and stakeholders. Chair Crowley acknowledged and will be providing the guidance on the number via e-mail with the details and amount needed.

Additional corrections were requested by GC members Sam Fuller, Betsy Miller, and Katelyn Scholte. Chair Crowley suggested that the additional comments and corrections provided be captured and sent to all GC members. He requested for all to see the updated report and concur on the final report. Mr. Howard acknowledged all key tasks to complete the report.

2.2 Discuss Discussion of the SAR-MC Cooperative Water Project (Exchange Plan) Management Committees Request for the Groundwater Council to Consider Inclusion of Reimbursement for the Daily Flow Report through the EAM O&M Costs

Ms. Betsy Miller commenced the update highlighting this item was brought up at during the last Exchange Plan meeting. This is an agreement that was developed by Valley District and enabled Valley District to deliver supplemental water to the Yucaipa region, by exchange, rather than build a pipeline to Yucaipa. More recently, a pipeline was constructed to the Yucaipa region so that this arrangement is no longer used. The Conservation District has the role of Project Manager that included measuring the water that was being exchanged amongst the parties. Since the agreement is no longer needed, the parties are working together on a replacement agreement

At the last Exchange Plan meeting, there were discussions about the Daily Flow Report that Conservation District prepared under the Exchange Plan Agreement. Under that agreement, Valley District paid the costs for the report. However, now that the agreement is being replaced, the group was investigating other sources of funding for the report. One idea was for the Daily Flow Report to be funded by the Groundwater Council. The cost to prepare the report is about \$35,000 to \$40,000 a year.

Ms. Katelyn Scholte provided an overview of the Daily Flow Report and highlighted how the GC uses the data as well. Mr. Bob Tincher provided some historical background for the report.

Chair Crowley addressed the importance of this action and how it would be added to the GC, if needed. Mr. Tincher said that Valley District is evaluating its need for this report.

Multiple agencies concurred that additional information is needed to make a decision on this item.

2.3 Groundwater Council Renewal Committee Report

Mr. Bob Tincher provided the update from the Groundwater Council Renewal Committee and highlighted the committee has been discussing the next version of the Groundwater Council agreement, including legal support and potential changes.

Mr. Tincher then provided the following recommendations to the SBB Groundwater Council on the cost sharing methodology.

2.3 The GC Renewal Subcommittee Recommends Local Recharge Water not be used as an Offset for the Purchase of State Water Project Water in the Equitable Allocation Model (EAM) since the Two Types of Water are not Equivalent

The renewal subcommittee is recommending that local recharge water not be used as an offset for the purchase of SWP water in the EAM since local water is not equivalent to supplemental supplies, like the State Water Project, new Recycled or new Stormwater.

The recommendation is local water would not be used to offset supplemental water purchases. Jarb Thaipejr made a motion to approve the recommendation; Brian Dickinson seconded the motion. The item was approved.

2.5 The GC Renewal Subcommittee Recommends that Local Water Recharge be included in the Agency’s Water Budget in the EAM

Steven Miller made a motion to approve the recommendation. Jarb Thaipejr seconded the motion. Joanne Chan, voted “no” as the agency needs more time to evaluate. The item was approved.

2.6 The GC Renewal Subcommittee Recommends that Safe Yield be Proportioned based on Current Pumping only in the EAM

Jeff Noelte made a motion to approve the recommendation; Jarb Thaipejr seconded the motion. Joanne Chan, voted “no” as the agency needs more time to evaluate the item. Sam Fuller added Bear Valley is going to need to look at the application of the Equitable Allocation Model. Bear Valley will respond to this issue later. The item was approved.

3. Old Business.

No old business to discuss

4. Other Business.

No other business to discuss

5. Set Date for Next Meeting

The next regularly scheduled Groundwater Council Meeting will be on October 11, 2022, at 3:30pm.

Agenda Item 4. Adjournment.

Chairman Crowley adjourned the meeting 11:10 a.m.

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

Respectfully submitted,

Jose Macedo
Chief of Staff/Clerk of the Board

San Bernardino Basin Groundwater Council
Renewal Subcommittee

The San Bernardino Basin Groundwater Council Renewal Subcommittee requests a proposal to use computer modeling to answer the following question:

What would happen to the local, surface water presently diverted by San Bernardino GC agencies that have water rights or access to water rights if the agencies did not divert the water? How much, if any, would recharge into the San Bernardino Basin anyway?

Please email a letter proposal to Bob Tincher, bobt@sbumwd.com, that includes your approach, tool(s), team, schedule, fee and resulting deliverable(s) to answer the question.

GEOSCIENCE

The First Name in Groundwater

August 18, 2022

Mr. Bob Tincher, PE
Chief Water Resources Officer / Deputy General Manager
San Bernardino Valley Municipal Water District
380 East Vanderbilt Way
San Bernardino, CA 92408-3593

Re: Scope of Work and Cost Estimate for San Bernardino Basin Groundwater Council Local Water Modeling

Dear Bob:

Per your 20-Jul-22 email request, Geoscience Support Services, Inc. (Geoscience) has prepared this scope of work and cost proposal to provide modeling services for the San Bernardino Basin Groundwater Council (GC) Renewal Subcommittee. Specifically, the purpose this modeling is to answer the following questions:

- What would happen to the local surface water presently diverted by San Bernardino Basin GC agencies that have water rights or access to water rights if the agencies did not divert the water?
- How much, if any, would recharge into the San Bernardino Basin anyway?

The following sections discuss the proposed approach, tool, scope of work, schedule, and cost estimate.

Approach

We propose to use a numerical groundwater modeling approach to answer the San Bernardino Basin GC Renewal Subcommittee's questions. Specifically, we will use the Integrated Santa Ana River (SAR) Model completed in September 2020 to conduct model runs with and without local surface water diversions by San Bernardino Basin GC agencies and compare the modeling results. Differences in water levels, water budgets (e.g., streambed recharge), and streamflow will be analyzed.

PO Box 220 Claremont, CA 91711
t. 909.451.6650
f. 909.451.6638
www.gssiwater.com

Tool

The tool used for this project will be the Integrated SAR Model. This model was calibrated using observed water levels from more than 800 wells and observed streamflow from three gaging stations for the period from January 1966 through December 2016 with a monthly stress period. This model will provide the temporal and spatial information for water levels, water budgets, and streamflow.

Scope of Work

For the purpose of this project, the following tasks are proposed.

- Task 1 – Compile Data for Local Surface Water Presently Diverted by San Bernardino Basin GC Agencies
- Task 2 – Run Model Runs and Analyze Model Results (Two Model Runs)
- Task 3 – Prepare Draft and Final Technical Memorandum
- Task 4 – Project Management and Meeting Attendance

Task 1: Compile Data for Local Surface Water Presently Diverted by San Bernardino Basin GC Agencies

We will compile assumed future diversions for the San Bernardino Basin GC Renewal Subcommittee to review. This will ensure that appropriate diversion amounts are simulated by the Integrated SAR Model for the model run analysis.

Task 2: Run Model Runs and Analyze Model Results

We propose to conduct two model runs and analyze the model results. Model Runs 1 and 2 represent future conditions with and without local surface water diversions. We will forecast 25 years into the future using hydrology from 1966 to 1990. This is the same base period used to evaluate impacts from proposed Habitat Conservation Plan (HCP) covered activities. The following table summarizes the major assumptions for these model runs.

Major Assumptions for Predictive Scenarios

Model Run	Time Period	Hydrology	Local Surface Water Diversions	Note
1	Representing Future Conditions	1966 to 1990	Yes	The hydrologic period from 1966 to 1990 corresponds to the base period used for the HCP Analysis
2	Representing Future Conditions	1966 to 1990	No	

We will prepare model input data, run the model scenarios, and analyze the model results. Model-simulated water levels, streamflow, and water budgets will be analyzed. Water level changes between model Run 1 and Run 2 will be plotted. Hydrographs at selected wells will be prepared for each model run. Water budgets for each model run will also be quantified.

Task 3: Prepare Draft and Final Technical Memorandum

Geoscience will prepare a draft technical memorandum summarizing all work conducted for this study. This technical memorandum will include discussion on the approach and tools, model description, assumptions, and modeling results with accompanying figures and tables.

We will submit the draft technical memorandum to the San Bernardino Basin GC Renewal Subcommittee for review and comments. A Final Technical Memorandum will then be prepared that incorporates all comments received on the draft technical memorandum.

Task 4: Project Management and Meeting Attendance

We will coordinate project activities throughout the project. Project management includes additional hours and costs to cover tasks related to any unforeseen issues or requests that arise during the course of the project.

We will also prepare for and attend two (2) meetings including one kick-off meeting and one meeting to present the modeling results.

Schedule

Proposed Tasks 1 through 4 presented above are anticipated to take approximately two months to complete, including two weeks for the San Bernardino Basin GC Renewal Subcommittee to review the draft Technical Memorandum.

Cost Estimate

A breakdown of cost by task and anticipated staff participation is provided in attached Table 1. As shown, the total proposed cost for Task 1 through Task 4 is \$19,947.

If you have any questions, please contact me at (909) 451-6650

Sincerely,

A handwritten signature in blue ink that reads "Johnson Yeh". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Johnson Yeh, PhD, PG, CHG

Principal Geohydrologist

Encl.

**Cost Proposal for Professional Services
for San Bernardino Basin Groundwater Council Local Water Modeling**

Task Description		GEOSCIENCE SUPPORT SERVICES, INC.						TOTALS			
		Principal Modeler	Senior Modeler	Project Geohydrologist	Senior Associate Modeler	Associate Modeler	GIS/CAD Specialist	Total Geoscience Hours	Labor	Reimbursable Expenses ¹	Total Cost
<i>Hourly Rate:</i>		\$289	\$264	\$213	\$210	\$196	\$155				
1.0	Compile Data for Local Surface Water Presently Diverted by San Bernardino Basin GC Agencies	1	1		6			8	\$ 1,813		\$ 1,813
2.0	Run Model Runs and Analyze Model Results (Two Model Runs)	1	3		36			40	\$ 8,641		\$ 8,641
3.0	Prepare Draft and Final Technical Memorandum	1	8	2	8		8	27	\$ 5,747		\$ 5,747
4.0	Project Management and Meeting Attendance (Assumes Two Meetings)	2	12					14	\$ 3,746		\$ 3,746
TOTAL HOURS AND COST		5	24	2	50	0	8	89	\$ 19,947	\$ -	\$ 19,947

Notes:

- 1 Reimbursable Expenses Include Subconsultant Fees, Mileage, and report reproduction costs.
GEOSCIENCE is aware of the requirements of California Labor Code Sections 1720 et seq. and 1770 et seq., which require the payment of prevailing wage rates and the performance of other requirements on certain "public works" and "maintenance" projects.
The work GEOSCIENCE performs does not fall under prevailing wage rate categories.
- 2 Geoscience's Schedule and Consultants Fee included with this bid are valid for a period of 6 months assuming the starting date shown in the attached Project Schedule.
- 3 Geoscience will manage work hours between employee classifications or utilize other employee classifications provided that the total project fee is not exceeded without prior approval of the Owner.
Geoscience will first request approval from the Owner before work hours are managed between Tasks as listed in the Consultants Fee Schedule.
- 4 Services not Specifically Identified in the Scope of Work are not included in this Agreement for Professional Services.

Cost Sharing Based on Approved FY 2022-23 EAM

Agency	Voting Weight	Agency Cost
Bear Valley Mutual Water Company	0.05%	\$ 9.80
City of Colton	2.20%	\$ 438.42
City of Loma Linda	8.72%	\$ 1,739.86
City of Redlands	5.57%	\$ 1,110.25
City of Rialto	8.32%	\$ 1,659.70
City of San Bernardino	52.51%	\$ 10,473.36
East Valley Water District	3.58%	\$ 715.01
Fontana Union Water Company	2.50%	\$ 499.00
Loma Linda University	0.73%	\$ 145.73
San Bernardino Valley M.W.D.	0.04%	\$ 8.85
West Valley Water District	15.47%	\$ 3,086.61
Yucaipa Valley Water District	0.30%	\$ 60.40
Total	100%	\$ 19,947.00

Recommendations of the GC Renewal Committee

Approved at the August 8, 2022 Meeting

Approved Items

Recommendation	Explanation	Effective Date
1. Exclude the use of local recharge water as an offset for the purchase of State Water Project water in the EAM	The two types of water are not equivalent; next step is modeling net effect	Next GC Framework Agreement; FY 2023-24 EAM
2. Local water recharge be included in an Agency's Water Budget in the EAM	Local water recharge has value to the Basin and that value is provided to the agency in their Water Budget. That supply helps offset their demand	FY 2023-24 EAM
3. Safe Yield be proportioned based on current pumping only	More intuitive and less cumbersome	FY 2023-24 EAM