



SACRAMENTO GROUNDWATER AUTHORITY
MEETING OF THE BOARD OF DIRECTORS

Thursday, December 14, 2023
at 9:00 a.m.

2295 Gateway Oaks, Suite 100
Sacramento, CA 95833
(916) 967-7692

The Board will discuss all items on this agenda, and may take action on any of those items, including information items and continued items. The Board may also discuss other items that do not appear on this agenda but will not act on those items unless action is urgent, and a resolution is passed by a two-thirds (2/3) vote declaring that the need for action arose after posting of this agenda.

IMPORTANT NOTICE REGARDING VIRTUAL PUBLIC PARTICIPATION:

The Sacramento Groundwater Authority currently provides in person as well as virtual public participation via the Zoom link below until further notice. The public shall have the opportunity to directly address the Board on any item of interest before or during the Board's consideration of that item. Public comment on items within the jurisdiction of the Board is welcomed, subject to reasonable time limitations for each speaker.

Join the meeting from your computer, tablet or smartphone

<https://us06web.zoom.us/j/82737526432?pwd=PMOQuQs6PsY18JREWLbab9atzA0E6G.1>

Phone: 1-669-900-6833

Meeting ID: 827 3752 6432 Passcode: 121932

If we experience technical difficulties and the Zoom link drops and you are no longer able to connect to the Board meeting, please dial 877-654-0338 – Guest Code 198

Public documents relating to any open session item listed on this agenda that are distributed to all or a majority of the members of the Board of Directors less than 72 hours before the meeting are available for public inspection on SGA's website. In compliance with the Americans with Disabilities Act, if you have a disability and need a disability-related modification or accommodation to participate in this meeting, please contact jpeifer@rwah2o.org. Requests must be made as early as possible, and at least one full business day before the start of the meeting.

AGENDA

1. CALL TO ORDER AND ROLL CALL

2. PUBLIC COMMENT: Members of the public who wish to address the Board may do so at this time. Please keep your comments to less than three minutes.

3. CONSENT CALENDAR:

All items listed under the Consent Calendar are considered and acted upon by one motion. Anyone may request an item be removed for separate consideration.

3.1 Approve the draft meeting minutes of October 12, 2023 SGA Board meeting.

3.2 Approve Josette Reina-Luken as the alternate Board Secretary for the December 14, 2023 Board meeting.

Action: Approve Consent Calendar items as presented

4. FISCAL YEAR 2022/2023 AUDIT REPORT

Presenter: Ingrid Sheipline, Richardson & Company, LLP

Action: Accept Fiscal Year 2022/2023 SGA Financial Audit Report

5. REVISIONS TO POLICY 100.3 (EMPLOYEE COMPENSATION POLICY) AND APPROVE PAST SALARY SCHEDULES

Presenter: Josette Reina-Luken, Financial and Administrative Services Manager

Action: Approve Revisions to Policy 100.3 and Approve Past Salary Schedules

6. SGA WATER ACCOUNTING FRAMEWORK

Presenter: Jim Peifer, Executive Director and Trevor Joseph, Manager of Technical Services

7. ELECTION OF 2024 SGA OFFICERS

Presenter: Randy Marx, Chair

Action: 2024 Chair and Vice Chair and select SGA Ad Hoc Nominating Committee

8. EXECUTIVE DIRECTOR'S REPORT

9. DIRECTORS' COMMENTS

ADJOURNMENT

Next SGA Board of Director's Meetings:

February 8, 2024, 9:00 a.m. at the RWA/SGA office, 2295 Gateway Oaks, Suite 100, Sacramento, CA 95833. The location is subject to change.

Notification will be emailed when the SGA electronic packet is complete and posted on the SGA website at <https://www.sgah2o.org/meetings/board-meetings/>

Posted on: December 8, 2023

James Peifer, Executive Director

2023 SGA BOARD MEMBERS

Organization	Representative/Alternate	Appointing Authority
California American Water	S. Audie Foster Christina Baril (Alternate)	Sacramento City Council
Carmichael Water District	Paul Selsky Vice Chair Jeff Nelson (Alternate)	Sacramento County
Citrus Heights Water District	Caryl Sheehan Raymond Riehle (Alternate)	Citrus Heights City Council
City of Folsom	Marcus Yasutake YK Chalamcherla (Alternate) Todd Eising (Alternate)	Folsom City Council
City of Sacramento	Lisa Kaplan Mai Vang (Alternate) Brett Ewart (Alternate)	Sacramento City Council
County of Sacramento	Chris Hunley Kerry Schmitz (Alternate)	Sacramento County
Del Paso Manor Water District	Robert Matteoli Gwynne Pratt (Alternate)	Sacramento City Council
Fair Oaks Water District	Randy Marx Chair Christian Petersen (Alternate)	Sacramento County
Golden State Water Company	Paul Schubert Lawrence Dees (Alternate)	Sacramento City Council
Natomas Central MWC	Matt Lauppe Brett Gray (Alternate)	Sacramento City Council
Orange Vale Water Company	John Wingerter Craig Davis (Alternate)	Sacramento County
Rio Linda/Elverta CWD	Mary Harris Vacant (Alternate)	Sacramento County
Sacramento Suburban Water District	Jay Boatwright Robert Wichert (Alternate) Kevin Thomas (Alternate)	Sacramento City Council
San Juan Water District	Ted Costa Dan Rich (Alternate)	Sacramento County
Agriculture	Mike DeWit Nathan Doyel (Alternate)	Sacramento County
Self-Supplied Industry	Larry Johnson	Sacramento City Council

Topic: Public Comment
Type: New Business
Item For: Information/Discussion
Purpose: Routine

SUBMITTED BY:	Ashley Flores, CMC Secretary	PRESENTER:	Jim Peifer Executive Director
---------------	---------------------------------	------------	----------------------------------

EXECUTIVE SUMMARY

This is an information item to provide an opportunity for the Sacramento Groundwater Authority Board of Directors to recognize or hear from visitors that may be attending the meeting or to allow members of the public to address the Board of Directors on matters that are not on the agenda.

As noted on the agenda, members of the public who wish to address the committee may do so at this time. Please keep your comments to less than three minutes.

STAFF RECOMMENDED ACTION

None. This item is for information only.

BACKGROUND

Public agencies are required by law to provide an opportunity for the public to address the SGA Board of Directors matters that are not on the agenda.

3.0 CONSENT CALENDAR

Attachment 1

**Draft meeting minutes of the Sacramento Groundwater Authority Board
of Directors Meeting of October 12, 2023**



SACRAMENTO GROUNDWATER AUTHORITY

**Board Meeting
Draft Minutes
October 12, 2023**

1. CALL TO ORDER

Chair Marx called the special meeting of the SGA Board of Directors to order at 9:00 a.m. at the RWA Board Room located at 2295 Gateway Oaks Drive, Suite 100, Sacramento, CA 95833. A quorum was established of 12 participating members at 9:11 a.m.. Individuals in attendance are listed below:

Board Members

S. Audie Foster, California American Water
Paul Selsky, Carmichael Water District
Caryl Sheehan, Citrus Heights Water District
Marcus Yasutake, City of Folsom
Todd Eising, City of Folsom
Lisa Kaplan, City of Sacramento
Brett Ewart, City of Sacramento
Chris Hunley, County of Sacramento
Robert Matteoli, Del Paso Manor Water District
Randy Marx, Fair Oaks Water District - Chair
Christian Petersen, Fair Oaks Water District
Mary Harris, Rio Linda/Elverta Community Water District
Robert Wichert, Sacramento Suburban Water District
Ted Costa, San Juan Water District
Mike DeWitt, Agriculture
Nathan Doyel, Agriculture

Staff Members

Jim Peifer, Trevor Joseph, Josette Reina-Luken, Ryan Ojakian, Raiyna Villasenor, Ashley Flores and Chris Sanders, legal counsel

Others in Attendance

Pauline Espinosa, GEI; Vanessa Nishikawa, Stantec; Greg Zlotnick, San Juan Water District; Paul Helliker, San Juan Water District; Cathy Lee, Carmichael Water District; Hilary Straus, Citrus Heights Water District; Rebecca Scott, Citrus Heights Water District; John Woodling, GEI; Dan York, Sacramento Suburban Water District; Kevin Thomas, Sacramento Suburban Water District; Craig Locke, Sacramento Suburban Water District; and Lisa Porta, Montgomery Associates.

2. PUBLIC COMMENT

None

Due to a lack of a quorum, Chair Marx took Agenda Item 5. SGA Engagement with Sacramento Regional Water Bank out of order.

The following Directors entered the meeting establishing a quorum of the SGA Board of Directors:

Director Sheehan entered at 9:05 a.m.; Director Foster entered at 9:07 a.m.; Director Kaplan entered at 9:09 a.m.; Director Matteoli and Director Costa entered at 9:11 a.m.; and Director Doyel entered at 9:58 a.m.

3. SGA ENGAGEMENT WITH SACRAMENTO REGIONAL WATER BANK

Jim Peifer, SGA Executive Director and Trevor Joseph, Manager of Technical Services presented this information/discussion item for the SGA Board of Directors to discuss the SGA's role in the development and engagement with the Sacramento Regional Water Bank.

Public Comment:

Paul Helliker identified the need for further discussions on recharge recovery framework, water transfers for non-banked water, and leave behind requirements.

4. CONSENT CALENDAR

3.1 Approve the draft meeting minutes of August 18, 2023 special SGA Board meeting.

3.2 Approve Task Order 23-01 dated October 4, 2023 for Professional Services between Woodard & Curran and SGA in the amount of \$41,765.

A motion was made to approve the Consent Calendar.

Motion/Second/Carried Director Ewart moved with a second by Director Foster

S. Audie Foster, California American Water; Paul Selsky, Carmichael Water District; Caryl Sheehan, Citrus Heights Water District; Marcus Yasutake, City of Folsom; Brett Ewart, City of Sacramento; Chris Hunley, County of Sacramento; Robert Matteoli, Del Paso Manor Water District; Christian Petersen, Fair Oaks Water District; Mary Harris, Rio Linda/Elverta Community Water District; Robert Wichert, Sacramento Suburban Water District; Ted Costa, San Juan Water District; Mike DeWitt, Agriculture; voted yes. Motion passed.

Ayes- 12

Noes- 0

Abstained- 0

Absent- 4

5. REVIEW OF INVESTMENT POLICY

Josette Reina-Luken, Finance & Administrative Services Manager presented this recurring annual action item for the SGA Board of Directors to review SGA Policy 400.1 – Investment Policy. Previously, this item has been listed on the consent calendar to affirm in both 2022 and 2021. This item is necessary to be in compliance with audit requirements.

A motion was made to approve Current Investment Policy, no changes to SGA Policy 400.1.

Motion/Second/Carried Director Sheehan moved with a second by Director Hunley

S. Audie Foster, California American Water; Paul Selsky, Carmichael Water District; Caryl Sheehan, Citrus Heights Water District; Marcus Yasutake, City of Folsom; Brett Ewart, City of Sacramento; Chris Hunley, County of Sacramento; Robert Matteoli, Del Paso Manor Water District; Christian Petersen, Fair Oaks Water District; Mary Harris, Rio Linda/Elverta Community Water District; Robert Wichert, Sacramento Suburban Water District; Ted Costa, San Juan Water District; Mike DeWitt, Agriculture; voted yes. Motion passed.

Ayes- 12
Noes- 0
Abstained- 0
Absent- 4

6. SUSTAINABLE GROUNDWATER MANAGEMENT ACT GROUNDWATER SUSTAINABILITY PLAN IMPLEMENTATION AND ROUND 2 GRANT AWARD

Trevor Joseph, Manager of Technical Services provided a presentation on Sustainable Groundwater Management Act, Groundwater Sustainability Plan implementation, and the Department of Water Resources (DWR) Sustainable Groundwater Management (SGM) Round 2 Grant Award updates to the Sacramento Groundwater Authority Board of Directors. The following topics were discussed Timeline of Activities, 2022 Groundwater Substitution Transfer Update, Hydrograph Update, North American Subbasin (NASb) Annual Interbasin Coordination Meetings (Yolo, Yuba, & South American), DWR SGM Final Grant Award, and DWR NASb GSP Approval Determination.

7. APPOINTMENT OF NOMINATIONS COMMITTEE FOR 2024 SGA OFFICERS Chair Marx appointed a committee of SGA Board Members that will serve on the 2024 SGA Officer Nomination Committee.

He appointed Director Yasutake (City of Folsom); Director Ewart (City of Sacramento); and Director Schubert (Golden State Water Company) as the 2024 SGA Officer Nomination Committee.

8. EXECUTIVE DIRECTOR’S REPORT

Executive Director Peifer referred the Board to his written report and asked if they had any questions, they could reach out to him directly.

He announced that Josette Reina-Luken will be leaving the organization at the end of the year, thanking for her four years of service. He also reminded the Board that this was Ashley Flores, Clerk of the Board last SGA meeting as she takes extended leave, all communication should be forwarded to Jim until further notice.

He also thanked the Board for all that attended the SGA 25th Anniversary Event on September 21, 2023 at the Sutter Club.

9. DIRECTORS’ COMMENTS

None.

ADJOURNMENT

With no further business to come before the Board, Chair Marx adjourned the meeting at 10:40 a.m.

By:

Randy Marx, Chairperson

Attest:

Name:
Alternate Board Secretary

Topic: Appointment of an Alternate Board Clerk
Type: Consent Calendar
Item For: Action; Motion to Approve
Purpose: Policy 200.1, Section 4.05

SUBMITTED BY:	Jim Peifer Executive Director	PRESENTER:	Jim Peifer Executive Director
---------------	----------------------------------	------------	----------------------------------

EXECUTIVE SUMMARY

This is an action item to appoint an alternate Board Clerk for the Sacramento Groundwater Authority Board of Directors while the Board Clerk is out on extended leave.

STAFF RECOMMENDED ACTION

A motion to appoint Josette Reina-Luken as an alternate Board Clerk for the December Board meeting.

BACKGROUND

Ashley Flores is the appointed SGA Board Clerk. She is going out on extended leave and will not be returning to her position until Spring of 2024. Staff recommends the Board appoint an alternate clerk while Ms. Flores is out.

FINDING/CONCLUSION

Policy 200.1 identifies that the Board shall appoint a clerk as the Board deems appropriate. Appointment of an alternate clerk will fill this critical role.

Agenda Item 4

Topic: Fiscal Year 2022/2023 Audit Report
Type: New Business
Item For: Action/Discussion
Purpose: Government Accounting Standards Board (GASB) Compliance

SUBMITTED BY:	Josette Reina-Luken Finance & Administrative Services Manager	PRESENTER:	Josette Reina-Luken Finance & Administrative Services Manager
---------------	---	------------	---

EXECUTIVE SUMMARY

In accordance with generally accepted and Government Auditing Standards, Richardson and Company, LLP was retained to conduct SGA's annual financial audit and provide an Independent Auditor's Report to the Board of Directors.

STAFF RECOMMENDATION:

Accept the SGA Fiscal Year 2022/2023 Audit Report.

BACKGROUND

Presentation of the draft Fiscal Year 2022/2023 Audit Report to be made by Ingrid Shepline of Richardson & Company, LLP.

ATTACHMENTS

Attachment 1- Draft Fiscal Year 2022/2023 Audit Report to be provided separately



Topic: Public Employee Retirement Law Compliance
 Type: New Business
 Item For: Action/Discussion
 Purpose: [SGA Policy 100.3](#)

SUBMITTED BY:	Josette Reina-Luken Finance & Administrative Services Manager	PRESENTER:	Josette Reina-Luken Finance & Administrative Services Manager
---------------	---	------------	---

EXECUTIVE SUMMARY

This is an action item for the Board of Directors to approve revisions to SGA Policy 100.3 (Compensation Policy) and to approve Policy 100.3 Exhibit A attachments for the period from January 2020 to July 2023 to be in compliance with California Public Employee Retirement Law (PERL).

STAFF RECOMMENDATION:

Approve the revisions to SGA Policy 100.3 (Compensation Policy) and retroactive approval of Policy 100.3 Exhibit A attachments from January 1, 2020 through July 1, 2023 to be in compliance with California PERL.

BACKGROUND

Recently, the CalPERS division of Compliance and Review assessed RWA’s pension reporting and inquired about SGA’s salary schedules specifically regarding position effective dates of when employees are granted pay increases. Staff responded to the requests by turning over all salary schedules for the last three years and was informed that payroll schedules must have an effective date for all listed positions, even if they occur at different times, and must be dually accepted and approved by an action from the Board of Directors and noted in the board meeting minutes.

It has been SGA’s practice to notify the Board of Directors of the new salary schedule in February as part of the Executive Director Report after the November CPI is released in accordance with SGA policy. Updates to the Executive Director’s salary appear as a footnote on the salary schedule whenever the Board approves contract changes. This is not in compliance with PERL. CalPERS has requested that the SGA retroactively approve salary schedules beginning from 2020 and update all salary schedules with the correct effective dates for the Executive Director and that the Board dually accept and approve these changes. These changes are reflected in Attachment 1 (original version) and Attachment 2 (highlighted changes). Additionally, moving forward, annual pay schedules will need to be a separate agenda item for Board consideration and approval during the first board meeting of the new year.

Agenda Item 5

In order to minimize the administrative burden, staff proposes that employee salary ranges approved by the Board of Directors align with an effective date that is also at the beginning of the pay period in the new calendar year. This is so that pay increases align with CalPERS reporting periods. Proposed staff changes are noted in a redline version to SGA Policy 100.3 (Attachment 3) for Board consideration.

FINDING/CONCLUSION

As this issue is embedded in legal compliance, the Board of Directors has no option but to approve the retro-active Compensation Exhibit A Attachments. However, the Board of Directors can modify the staff proposed policy changes to SGA Policy 100.3.

ATTACHMENTS

- Attachment 1- Original Compensation Exhibit A Attachments (January 1, 2020 through July 1, 2023)
- Attachment 2 - Revised Compensation Exhibit A Attachments (January 1, 2020 through July 1, 2023)
- Attachment 3 - SGA Policy 100.3 – Redlined Version

**EXHIBIT A
SGA POLICY 100.3**

MONTHLY SALARY SCHEDULE OF SGA POSITIONS

Effective as of January 1, 2020

Classification	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6
Manager of Technical Services	\$12,971	\$13,490	\$14,009	\$14,528	\$15,047	\$15,566
Principal Project Manager	\$10,611	\$11,035	\$11,460	\$11,884	\$12,308	\$12,733
Senior Project Manager	\$8,922	\$9,279	\$9,634	\$9,992	\$10,348	\$10,705
Associate Project Manager	\$6,330	\$6,584	\$6,838	\$7,090	\$7,344	\$7,597
Finance & Administrative Services Manager I	\$7,943	\$8,260	\$8,578	\$8,895	\$9,213	\$9,531
Executive Assistant	\$5,316	\$5,529	\$5,741	\$5,954	\$6,166	\$6,380
Project Research Assistant	\$4,757	\$4,946	\$5,136	\$5,327	\$5,518	\$5,707

There is no range for the Executive Director position. The Executive Director's compensation is \$16,932 per month.

Exhibit A will be updated annually based on the November Consumer Price Index and/or when a new salary survey is completed. (2020 ranges include COLA per November 2019 CPI Index of 2.5%)

**EXHIBIT A
SGA POLICY 100.3**

MONTHLY SALARY SCHEDULE OF SGA POSITIONS

Effective as of January 1, 2021

Classification	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6
Manager of Technical Services	\$13,179	\$13,706	\$14,233	\$14,761	\$15,288	\$15,815
Manager of Strategic Affairs	\$13,179	\$13,706	\$14,233	\$14,761	\$15,288	\$15,815
Principal Project Manager	\$10,781	\$11,212	\$11,643	\$12,074	\$12,505	\$12,936
Senior Project Manager	\$9,064	\$9,428	\$9,788	\$10,152	\$10,514	\$10,876
Associate Project Manager	\$6,432	\$6,689	\$6,947	\$7,203	\$7,462	\$7,719
Finance & Administrative Services Manager I	\$8,070	\$8,393	\$8,715	\$9,037	\$9,360	\$9,684
Executive Assistant	\$5,401	\$5,617	\$5,833	\$6,049	\$6,265	\$6,482
Project Research Assistant	\$4,833	\$5,025	\$5,218	\$5,412	\$5,606	\$5,799

There is no range for the Executive Director position. The Executive Director's compensation is \$17,779 per month.

Exhibit A will be updated annually based on the November Consumer Price Index and/or when a new salary survey is completed. (2021 ranges include COLA per November 2020 CPI Index of 1.6%)

**EXHIBIT A
SGA POLICY 100.3**

MONTHLY SALARY SCHEDULE OF SGA POSITIONS

January 1, 2022

Classification	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6
Manager of Technical Services	\$14,088	\$14,652	\$15,215	\$15,780	\$16,343	\$16,906
Manager of Strategic Affairs	\$14,088	\$14,652	\$15,215	\$15,780	\$16,343	\$16,906
Principal Project Manager	\$11,525	\$11,986	\$12,446	\$12,907	\$13,368	\$13,829
Senior Project Manager	\$9,689	\$10,079	\$10,463	\$10,852	\$11,239	\$11,626
Associate Project Manager	\$6,876	\$7,151	\$7,426	\$7,700	\$7,977	\$8,252
Finance & Administrative Services Manager I	\$8,627	\$8,972	\$9,316	\$9,661	\$10,006	\$10,352
Executive Assistant	\$5,774	\$6,005	\$6,289	\$6,514	\$6,697	\$6,929
Project Research Assistant	\$5,166	\$5,372	\$5,578	\$5,785	\$5,993	\$6,199

There is no range for the Executive Director position. The Executive Director's compensation is \$18,668 per month.

Exhibit A will be updated annually based on the November Consumer Price Index and/or when a new salary survey is completed. (2022 ranges include COLA per November 2021 CPI Index of 6.9%)

**EXHIBIT A
SGA POLICY 100.3**

MONTHLY SALARY SCHEDULE OF SGA POSITIONS

January 1, 2022

Classification	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6
Manager of Technical Services	\$14,088	\$14,652	\$15,215	\$15,780	\$16,343	\$16,906
Manager of Strategic Affairs	\$14,088	\$14,652	\$15,215	\$15,780	\$16,343	\$16,906
Principal Project Manager	\$11,525	\$11,986	\$12,446	\$12,907	\$13,368	\$13,829
Senior Project Manager	\$9,689	\$10,079	\$10,463	\$10,852	\$11,239	\$11,626
Associate Project Manager	\$6,876	\$7,151	\$7,426	\$7,700	\$7,977	\$8,252
Finance & Administrative Services Manager I	\$8,627	\$8,972	\$9,316	\$9,661	\$10,006	\$10,352
Executive Assistant	\$5,774	\$6,005	\$6,289	\$6,514	\$6,697	\$6,929
Project Research Assistant	\$5,166	\$5,372	\$5,578	\$5,785	\$5,993	\$6,199

There is no range for the Executive Director position. The Executive Director's compensation is \$19,601 per month.

Exhibit A will be updated annually based on the November Consumer Price Index and/or when a new salary survey is completed. (2022 ranges include COLA per November 2021 CPI Index of 6.9%)

**EXHIBIT A
SGA POLICY 100.3**

MONTHLY SALARY SCHEDULE OF SGA POSITIONS

November 10, 2022

Classification	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6
Manager of Technical Services	\$14,335	\$14,830	\$15,359	\$15,928	\$16,541	\$17,202
Manager of Strategic Affairs	\$14,335	\$14,830	\$15,359	\$15,928	\$16,541	\$17,202
Principal Project Manager	\$11,946	\$12,358	\$12,779	\$13,273	\$13,784	\$14,335
Senior Project Manager	\$9,955	\$10,298	\$10,666	\$11,061	\$11,487	\$11,946
Associate Project Manager	\$7,118	\$7,363	\$7,626	\$7,908	\$8,213	\$8,541
Finance & Administrative Services Manager I	\$9,979	\$10,323	\$10,692	\$11,088	\$11,514	\$11,975
Executive Assistant	\$5,774	\$6,005	\$6,289	\$6,514	\$6,697	\$6,929
Project Research Assistant	\$5,166	\$5,372	\$5,578	\$5,785	\$5,993	\$6,199

There is no range for the Executive Director position. The Executive Director's compensation is \$19,601 per month.

Exhibit A will be updated annually based on the November Consumer Price Index and/or when a new salary survey is completed. (2022 ranges include COLA per November 2021 CPI Index of 6.9%)

**EXHIBIT A
SGA POLICY 100.3**

MONTHLY SALARY SCHEDULE OF SGA POSITIONS

January 1, 2023

Classification	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6
Manager of Technical Services	\$15,367	\$15,898	\$16,465	\$17,075	\$17,732	\$18,441
Manager of Strategic Affairs	\$15,367	\$15,898	\$16,465	\$17,075	\$17,732	\$18,441
Principal Project Manager	\$12,806	\$13,248	\$13,699	\$14,229	\$14,776	\$15,367
Senior Project Manager	\$10,672	\$11,039	\$11,434	\$11,857	\$12,314	\$12,806
Associate Project Manager	\$7,630	\$7,893	\$8,175	\$8,477	\$8,804	\$9,156
Finance & Administrative Services Manager I	\$10,697	\$11,066	\$11,462	\$11,886	\$12,343	\$12,837
Executive Assistant	\$6,190	\$6,437	\$6,742	\$6,983	\$7,179	\$7,428
Project Research Assistant	\$5,538	\$5,759	\$5,980	\$6,202	\$6,424	\$6,645

There is no range for the Executive Director position. The Executive Director's compensation is \$19,601 per month.

Exhibit A will be updated annually based on the November Consumer Price Index and/or when a new salary survey is completed. (2023 ranges include COLA per November 2022 CPI Index of 7.2%)

**EXHIBIT A
SGA POLICY 100.3**

MONTHLY SALARY SCHEDULE OF SGA POSITIONS

July 1, 2023

Classification	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6
Manager of Technical Services	\$15,367	\$15,898	\$16,465	\$17,075	\$17,732	\$18,441
Manager of Strategic Affairs	\$15,367	\$15,898	\$16,465	\$17,075	\$17,732	\$18,441
Manager of Government Relations	\$15,367	\$15,898	\$16,465	\$17,075	\$17,732	\$18,441
Principal Project Manager	\$12,806	\$13,248	\$13,699	\$14,229	\$14,776	\$15,367
Senior Project Manager	\$10,672	\$11,039	\$11,434	\$11,857	\$12,314	\$12,806
Associate Project Manager	\$7,630	\$7,893	\$8,175	\$8,477	\$8,804	\$9,156
Finance & Administrative Services Manager	\$10,697	\$11,066	\$11,462	\$11,886	\$12,343	\$12,837
Executive Assistant	\$6,190	\$6,437	\$6,742	\$6,983	\$7,179	\$7,428
Project Research Assistant II	\$6,369	\$6,623	\$6,877	\$7,132	\$7,388	\$7,642
Project Research Assistant I	\$5,538	\$5,759	\$5,980	\$6,202	\$6,424	\$6,645

There is no range for the Executive Director position. The Executive Director's compensation is \$21,169 per month.

Exhibit A will be updated annually based on the November Consumer Price Index and/or when a new salary survey is completed. (2023 ranges include COLA per November 2022 CPI Index of 7.2%)

EXHIBIT A
SGA POLICY 100.3

MONTHLY SALARY SCHEDULE OF SGA POSITIONS

Effective as of January 1, 2020

Classification	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6
Manager of Technical Services	\$12,971	\$13,490	\$14,009	\$14,528	\$15,047	\$15,566
Principal Project Manager	\$10,611	\$11,035	\$11,460	\$11,884	\$12,308	\$12,733
Senior Project Manager	\$8,922	\$9,279	\$9,634	\$9,992	\$10,348	\$10,705
Associate Project Manager	\$6,330	\$6,584	\$6,838	\$7,090	\$7,344	\$7,597
Finance & Administrative Services Manager I	\$7,943	\$8,260	\$8,578	\$8,895	\$9,213	\$9,531
Executive Assistant	\$5,316	\$5,529	\$5,741	\$5,954	\$6,166	\$6,380
Project Research Assistant	\$4,757	\$4,946	\$5,136	\$5,327	\$5,518	\$5,707

Effective June 28, 2019, the Executive Director's compensation is \$16,932 per month.

Exhibit A will be updated annually based on the November Consumer Price Index and/or when a new salary survey is completed. (2020 ranges include COLA per November 2019 CPI Index of 2.5%)

**EXHIBIT A
SGA POLICY 100.3**

MONTHLY SALARY SCHEDULE OF SGA POSITIONS

Effective as of January 1, 2021

Classification	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6
Manager of Technical Services	\$13,179	\$13,706	\$14,233	\$14,761	\$15,288	\$15,815
Manager of Strategic Affairs	\$13,179	\$13,706	\$14,233	\$14,761	\$15,288	\$15,815
Principal Project Manager	\$10,781	\$11,212	\$11,643	\$12,074	\$12,505	\$12,936
Senior Project Manager	\$9,064	\$9,428	\$9,788	\$10,152	\$10,514	\$10,876
Associate Project Manager	\$6,432	\$6,689	\$6,947	\$7,203	\$7,462	\$7,719
Finance & Administrative Services Manager I	\$8,070	\$8,393	\$8,715	\$9,037	\$9,360	\$9,684
Executive Assistant	\$5,401	\$5,617	\$5,833	\$6,049	\$6,265	\$6,482
Project Research Assistant	\$4,833	\$5,025	\$5,218	\$5,412	\$5,606	\$5,799

Effective July 1, 2020, the Executive Director's compensation is \$17,779 per month.

Exhibit A will be updated annually based on the November Consumer Price Index and/or when a new salary survey is completed. (2021 ranges include COLA per November 2020 CPI Index of 1.6%)

**EXHIBIT A
SGA POLICY 100.3**

MONTHLY SALARY SCHEDULE OF SGA POSITIONS

January 1, 2022

Classification	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6
Manager of Technical Services	\$14,088	\$14,652	\$15,215	\$15,780	\$16,343	\$16,906
Manager of Strategic Affairs	\$14,088	\$14,652	\$15,215	\$15,780	\$16,343	\$16,906
Principal Project Manager	\$11,525	\$11,986	\$12,446	\$12,907	\$13,368	\$13,829
Senior Project Manager	\$9,689	\$10,079	\$10,463	\$10,852	\$11,239	\$11,626
Associate Project Manager	\$6,876	\$7,151	\$7,426	\$7,700	\$7,977	\$8,252
Finance & Administrative Services Manager I	\$8,627	\$8,972	\$9,316	\$9,661	\$10,006	\$10,352
Executive Assistant	\$5,774	\$6,005	\$6,289	\$6,514	\$6,697	\$6,929
Project Research Assistant	\$5,166	\$5,372	\$5,578	\$5,785	\$5,993	\$6,199

Effective January 10, 2022, the Executive Director's compensation is \$18,668 per month.

Exhibit A will be updated annually based on the November Consumer Price Index and/or when a new salary survey is completed. (2022 ranges include COLA per November 2021 CPI Index of 6.9%)

**EXHIBIT A
SGA POLICY 100.3**

MONTHLY SALARY SCHEDULE OF SGA POSITIONS

January 1, 2022

Classification	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6
Manager of Technical Services	\$14,088	\$14,652	\$15,215	\$15,780	\$16,343	\$16,906
Manager of Strategic Affairs	\$14,088	\$14,652	\$15,215	\$15,780	\$16,343	\$16,906
Principal Project Manager	\$11,525	\$11,986	\$12,446	\$12,907	\$13,368	\$13,829
Senior Project Manager	\$9,689	\$10,079	\$10,463	\$10,852	\$11,239	\$11,626
Associate Project Manager	\$6,876	\$7,151	\$7,426	\$7,700	\$7,977	\$8,252
Finance & Administrative Services Manager I	\$8,627	\$8,972	\$9,316	\$9,661	\$10,006	\$10,352
Executive Assistant	\$5,774	\$6,005	\$6,289	\$6,514	\$6,697	\$6,929
Project Research Assistant	\$5,166	\$5,372	\$5,578	\$5,785	\$5,993	\$6,199

Effective July 1, 2022, the Executive Director's compensation is \$19,601 per month.

Exhibit A will be updated annually based on the November Consumer Price Index and/or when a new salary survey is completed. (2022 ranges include COLA per November 2021 CPI Index of 6.9%)

**EXHIBIT A
SGA POLICY 100.3**

MONTHLY SALARY SCHEDULE OF SGA POSITIONS

November 10, 2022

Classification	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6
Manager of Technical Services	\$14,335	\$14,830	\$15,359	\$15,928	\$16,541	\$17,202
Manager of Strategic Affairs	\$14,335	\$14,830	\$15,359	\$15,928	\$16,541	\$17,202
Principal Project Manager	\$11,946	\$12,358	\$12,779	\$13,273	\$13,784	\$14,335
Senior Project Manager	\$9,955	\$10,298	\$10,666	\$11,061	\$11,487	\$11,946
Associate Project Manager	\$7,118	\$7,363	\$7,626	\$7,908	\$8,213	\$8,541
Finance & Administrative Services Manager I	\$9,979	\$10,323	\$10,692	\$11,088	\$11,514	\$11,975
Executive Assistant	\$5,774	\$6,005	\$6,289	\$6,514	\$6,697	\$6,929
Project Research Assistant	\$5,166	\$5,372	\$5,578	\$5,785	\$5,993	\$6,199

Effective July 1, 2022, the Executive Director's compensation is \$19,601 per month.

Exhibit A will be updated annually based on the November Consumer Price Index and/or when a new salary survey is completed. (2022 ranges include COLA per November 2021 CPI Index of 6.9%)

**EXHIBIT A
SGA POLICY 100.3**

MONTHLY SALARY SCHEDULE OF SGA POSITIONS

January 1, 2023

Classification	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6
Manager of Technical Services	\$15,367	\$15,898	\$16,465	\$17,075	\$17,732	\$18,441
Manager of Strategic Affairs	\$15,367	\$15,898	\$16,465	\$17,075	\$17,732	\$18,441
Principal Project Manager	\$12,806	\$13,248	\$13,699	\$14,229	\$14,776	\$15,367
Senior Project Manager	\$10,672	\$11,039	\$11,434	\$11,857	\$12,314	\$12,806
Associate Project Manager	\$7,630	\$7,893	\$8,175	\$8,477	\$8,804	\$9,156
Finance & Administrative Services Manager I	\$10,697	\$11,066	\$11,462	\$11,886	\$12,343	\$12,837
Executive Assistant	\$6,190	\$6,437	\$6,742	\$6,983	\$7,179	\$7,428
Project Research Assistant	\$5,538	\$5,759	\$5,980	\$6,202	\$6,424	\$6,645

Effective July 1, 2022, the Executive Director's compensation is \$19,601 per month.

Exhibit A will be updated annually based on the November Consumer Price Index and/or when a new salary survey is completed. (2023 ranges include COLA per November 2022 CPI Index of 7.2%)

**EXHIBIT A
SGA POLICY 100.3**

MONTHLY SALARY SCHEDULE OF SGA POSITIONS

July 1, 2023

Classification	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6
Manager of Technical Services	\$15,367	\$15,898	\$16,465	\$17,075	\$17,732	\$18,441
Manager of Strategic Affairs	\$15,367	\$15,898	\$16,465	\$17,075	\$17,732	\$18,441
Manager of Government Relations	\$15,367	\$15,898	\$16,465	\$17,075	\$17,732	\$18,441
Principal Project Manager	\$12,806	\$13,248	\$13,699	\$14,229	\$14,776	\$15,367
Senior Project Manager	\$10,672	\$11,039	\$11,434	\$11,857	\$12,314	\$12,806
Associate Project Manager	\$7,630	\$7,893	\$8,175	\$8,477	\$8,804	\$9,156
Finance & Administrative Services Manager	\$10,697	\$11,066	\$11,462	\$11,886	\$12,343	\$12,837
Executive Assistant	\$6,190	\$6,437	\$6,742	\$6,983	\$7,179	\$7,428
Project Research Assistant II	\$6,369	\$6,623	\$6,877	\$7,132	\$7,388	\$7,642
Project Research Assistant I	\$5,538	\$5,759	\$5,980	\$6,202	\$6,424	\$6,645

Effective July 1, 2023, the Executive Director's compensation is \$21,169 per month.

Exhibit A will be updated annually based on the November Consumer Price Index and/or when a new salary survey is completed. (2023 ranges include COLA per November 2022 CPI Index of 7.2%)

SACRAMENTO GROUNDWATER AUTHORITY POLICIES AND PROCEDURES MANUAL

Policy Type : Human Resources
Policy Title : Employee Compensation Policy
Policy Number : 100.3
Date Adopted : February 14, 2019
Date Amended :

EMPLOYEE COMPENSATION POLICY

The Sacramento Groundwater Authority (SGA) and Regional Water Authority (RWA) entered into "AGREEMENT BETWEEN THE REGIONAL WATER AUTHORITY AND THE SACRAMENTO GROUNDWATER AUTHORITY FOR ADMINISTRATIVE AND MANAGEMENT SERVICES," (Administrative Services Agreement) on the 23rd day of May, 2002, and amended the Agreement on the 9th day of September, 2004.

With respect to employees, the Administrative Services Agreement states in Section 2.b, "Employees shall include all full-time and part-time personnel and staff hired and retained by RWA to act for the benefit of both RWA and SGA."

Consistent with the Administrative Services Agreement, SGA recognizes a need to have consistent compensation levels with RWA and thereby adopts Exhibit A to this Policy. Exhibit A will be updated annually to maintain consistency with the RWA employee salaries and pay scales, and the Board will be notified of changes.

SACRAMENTO GROUNDWATER AUTHORITY POLICIES AND PROCEDURES MANUAL

Policy Type : Human Resources
Policy Title : Employee Compensation Policy
Policy Number : 100.3
Date Adopted : February 14, 2019
Date Amended : December 14, 2023

EMPLOYEE COMPENSATION POLICY

The Sacramento Groundwater Authority (SGA) and Regional Water Authority (RWA) entered into “AGREEMENT BETWEEN THE REGIONAL WATER AUTHORITY AND THE SACRAMENTO GROUNDWATER AUTHORITY FOR ADMINISTRATIVE AND MANAGEMENT SERVICES,” (Administrative Services Agreement) on the 23rd day of May, 2002, and amended the Agreement on the 9th day of September, 2004.

With respect to employees, the Administrative Services Agreement states in Section 2.b, “Employees shall include all full-time and part-time personnel and staff hired and retained by RWA to act for the benefit of both RWA and SGA.”

Consistent with the Administrative Services Agreement, SGA recognizes a need to have consistent compensation levels with RWA and thereby ~~adopts~~ will dually authorize and approve all compensation changes and Exhibit A to this Policy at the first SGA meeting of the new calendar year. Exhibit A will be updated annually in January and approved- by the RWA Board of Directors. In order to maintain consistency with the RWA employee salaries and pay scales, ~~and~~ the Board will ~~be notified of~~ retroactively approve these changes.



Topic: SGA Water Accounting Framework
 Type: New Business
 Item For: Action/Discussion
 Purpose: Policy 100.1 (SGA Joint Powers Agreement)

SUBMITTED BY:	James Peifer, Executive Director Trevor Joseph, Manager of Technical Services	PRESENTER:	James Peifer, Executive Director Trevor Joseph, Manager of Technical Services
---------------	--	------------	--

EXECUTIVE SUMMARY

This item is a presentation to the Board of Directors on the Sacramento Groundwater Authority’s (SGA’s) Water Accounting Framework (WAF).

STAFF RECOMMENDATION:

No recommendation(s). This item is an informational presentation by SGA staff for discussion purposes only.

BACKGROUND

The SGA’s Joint Powers Agreement explicitly identified certain powers that the SGA adopted including (but not limited to) the following:

1. *Collect and monitor data on the extraction of groundwater from, and the quality of groundwater in, the North Area Basin;*
2. *Establish and administer a Conjunctive Use program for the purpose of maintaining Sustainable yields in the North Area Basin consistent with the Groundwater Management Element;*
3. *Buy and sell water on other than a retail basis;*
4. *Exchange water;*
5. *Distribute water in exchange for ceasing or reducing groundwater extractions;*
6. *Spread, sink and inject water into the North Area Basin;*
7. *Store, transport, recapture, recycle, purify, treat or otherwise manage and control water for the beneficial use of persons and property within the Authority;*
8. *To implement any Conjunctive Use program which the Authority deems necessary to maintain Sustainable yields in the North Area Basin consistent with the Groundwater Management Element; and*
9. *Study and plan ways and means to implement any or all of the foregoing powers.*

In the 2000s, the SGA developed the Water Accounting Framework (WAF) as a policy to incentivize

Agenda Item 6

conjunctive use and manage groundwater supplies within the sustainable yield defined in the Groundwater Management Plan (GMP). The policy established voluntary pumping limits by agency with a focus on the water agencies in the central portion of the SGA area. The SGA adopted the WAF in 2008 and set the accounting start date for January 1, 2010. In order to gain support by the SGA Board, the policy recognized water previously banked through conjunctive use by member agencies dating back to August 1998. The WAF also credited out of basin transfers starting in 2010.

The WAF has been an important and foundational policy by SGA to aid in sustainably managing groundwater resources long before the passage and implementation of the Sustainable Groundwater Management Act of 2015. The WAF is also of important consideration to the RWA, as RWA and the Program Committee (local water agencies participating in the development of the Sacramento Regional Water Bank {Water Bank}) is considering how to account for banking actions under a new Water Accounting System (WAS) for the Water Bank. Although the WAS is being developed under different criteria and to cover a large scope of banking actions and geographical area, the progressive framework provided in the WAF is aiding RWA and the Program Committee think through important considerations in WAS development.

Finally, it is possible that modifications to the WAF may be needed in order to allow water agencies in the “Eastern Unit”, as defined in the WAF to participate in future sustainable groundwater banking and exchange programs.

Staff will be presenting on the WAF.

ATTACHMENTS

Water Accounting Framework Phase III Effort (June 10, 2010)

SACRAMENTO GROUNDWATER AUTHORITY

WATER ACCOUNTING FRAMEWORK
PHASE III EFFORT

June 10, 2010

Table of Contents

Introduction	1
Background	1
Framework Principles	2
Banking and Exchange Principles.....	6
Model Groundwater Banking Program Elements.....	8
Roles Under Phase III of the Framework	14
Exhibit 1	16
Exhibit 2	18
Exhibit 3	20

Sacramento Groundwater Authority

Water Accounting Framework

Phase III Effort

I. Introduction

The Water Accounting Framework (Framework) establishes a set of policies and procedures that will encourage and support conjunctive use operations within the Sacramento Groundwater Authority (SGA) area of jurisdiction to facilitate the long-term sustainability of the underlying groundwater basin as source of public water supply. The Framework recognizes investments by the SGA member agencies in the development of conjunctive use programs and supports groundwater banking programs that enhance the long-term sustainability of the groundwater basin.

II. Background

In June 2007, the SGA Board adopted Phase II of the Framework for the SGA area. Phase II established that SGA would maintain an ongoing record of groundwater banking and withdrawal activities within the SGA area, maintain necessary groundwater management tools (e.g., groundwater model, monitoring wells, etc.), and coordinate with regional stakeholders as necessary to communicate essential information regarding banking and withdrawal activities. Phase II also directed staff to develop a Model Groundwater Banking Program (MGBP) for use by SGA member agencies should they choose to implement a groundwater banking program that would result in transfers of water outside the SGA area.

At the direction of the MGBP Oversight Committee and the SGA Board, three additional elements were proposed in addition to the MGBP itself. The following four Framework components are described in this Phase III document:

- A. principles that reflect current understanding of the underlying groundwater basin¹ and existing management practices, including basin sustainability goals, as a foundation of the Framework;

¹ The basin as referenced here is the groundwater basin underlying the SGA management area, which includes Sacramento County north of the American River.

- B. standardized methodology for determining the volume of water available for banking and withdrawal operations under the framework;
- C. elements of an MGBP for agencies proposing groundwater exchanges under the Framework; and
- D. specific roles and responsibilities of SGA staff, the SGA Board, and member agencies in implementation of the Framework.

This Framework is intended to provide guidance to SGA member agencies on voluntary actions to help ensure the long-term sustainability of groundwater resources in the SGA area. It is not intended to restrict or limit the access to groundwater of any individual or agency.

III. Framework Principles

Based on current understanding of the underlying groundwater basin and existing groundwater management practices, the following principles are generally applicable within the SGA area. Specific principles are applicable to three sub-units (central, eastern, western) of the SGA area as listed below.

- A. To ensure the long-term sustainability of the groundwater basin underlying the SGA area, SGA should establish a basin sustainability² goal for each sub-unit.
- B. Achievement of basin sustainability goals can be met by agencies through either direct implementation (e.g., conjunctive use operations, conservation measures, etc.) or indirect means (e.g., purchase credits).
- C. Basin sustainability goals developed for this Framework should be pursued as feasible for each agency. In evaluating whether an agency is progressing toward meeting its sustainability goal, the availability of water, costs, significant water conservation that offsets groundwater extraction, and other factors affecting feasibility shall be taken into account.
- D. Basin sustainability goals established through the Framework do not include consideration of impacts associated with known or unknown contaminants. Putting to beneficial use any water from contaminant plume remediation shall be recognized as beneficial to the basin and shall not be assessed against an agency's basin sustainability goal.

² Sustainability as used here is the planned use of a resource in a manner such that the resource is not depleted or damaged through time.

- E. Basin sustainability goals will not be developed for agricultural and other self-supplied groundwater users at this time.
- F. This Framework and basin sustainability goals will be reviewed at least every five years to evaluate their effectiveness and equitable application among the participating agencies.
- G. Agencies interested in participating in a banking and exchange program with a party outside the SGA area will submit a plan for operation to demonstrate that the exchange will not adversely impact the sustainability of the groundwater basin or negatively impact Framework objectives.
- H. A proposed exchange arrangement resulting from this Framework should honor contracts within the region as the highest priority.
- I. The SGA area is set up as three discrete operating units (central, eastern, and western units), each with unique hydrogeology and water use characteristics. These units were previously described in the SGA Groundwater Management Plan and Basin Management Report (see Figure in Exhibit 1).

1. Central Unit

- a) A cone of depression has developed in the central portion of the SGA area (Central Unit) as a result of historic reliance on groundwater as the primary source of water by agencies within the Central Unit.
- b) The Central Unit agencies have a common interest in maintaining the sustainability of the basin and share responsibility for implementing programs to stabilize groundwater elevations.
- c) Central Unit agencies should implement measures to ensure the groundwater basin is sustainable.
- d) The initial sustainable pumping estimate, i.e., the estimated volume that can be pumped from the central portion of the basin while maintaining a stable groundwater elevation, is presented in Table 1 . This estimate of 90,000 ac-ft is based on an analysis in the Central Unit as of 2004. It is not intended that this be a fixed number, and may change over time with continued monitoring of water levels, pumping amounts and locations, new facilities, and future operational changes. It is also not intended to limit the amount of groundwater that an agency can extract to meet its service area water supply demands.
- e) The proportion of total annual groundwater use within the Central Unit by each of the overlying agencies nearest the time of

formation of SGA has been determined to be an appropriate basis for assignment of an annual basin sustainability goal. The average extractions for the five-year period 1993 through 1997 are deemed to be representative of the highest level of groundwater extraction from the Central Unit by the various agencies pumping from the Central Unit. This pumping totaled 101,784 ac-ft, as presented in Table 1 (See Exhibit 2). There have been no significant increases in groundwater extraction since that time.

d) The initial basin sustainability goal of 11,784 acre-feet for the Central Unit represents an average annual goal for reduction in groundwater extractions from this portion of the basin, which will contribute to stabilizing groundwater levels. Table 1 identifies the average extraction by each agency in the Central Unit for the period 1993 through 1997. Based on the each agency's relative groundwater extraction during this period, each agency is assigned a basin sustainability goal (expressed as a pumping target). This goal may be revised based on future observations of groundwater conditions or changing future demands. Member agencies will voluntarily identify programs by which they propose to meet these goals. While SGA promotes basin sustainability through a conjunctive use³ program, the SGA Board shall not unreasonably withhold endorsement of alternative programs.

e) Attainment of basin sustainability goals for each agency will be required for SGA's endorsement of banking and exchange programs in which water is exported from the SGA area.

f) Central Unit agencies will endeavor to attain their respective basin sustainability goals beginning in calendar year 2012.

2. Eastern Unit

a) Past groundwater extractions by agencies overlying the eastern portion of the SGA area (Eastern Unit) have been comparatively low, averaging approximately 1,300 acre-feet per year from 1998 through 2008. The SGA Board recognizes that this nominal past pumping has benefited the groundwater basin as compared to conditions that would exist if water demands in the Eastern Unit had been met with groundwater from the SGA area.

³ Conjunctive use as referred to in this document is maximizing operational capacity to utilize either surface water or groundwater as a source of supply. Surface water is used preferentially during wet periods, while groundwater is used preferentially in dry periods.

b) Additional groundwater pumping by these agencies may be needed in certain years to achieve environmental goals and maintain flows in the American River watershed. The agencies in the Eastern Unit estimate that they would use groundwater to meet overlying demand as follows: up to 3,000 acre-feet per year when inflow⁴ to Folsom Reservoir is above 950,000 acre-feet; up to 9,000 acre-feet per year when inflow to Folsom Reservoir is less than 950,000 acre-feet but greater than 400,000 acre-feet; up to 18,000 acre-feet per year when inflow to Folsom Reservoir is at or below 400,000 acre-feet.

c) As a result of current and past practices, and the current water supply systems in place in the Eastern Unit, the Eastern Unit has not been assigned a basin sustainability goal at this time. However, groundwater pumping in excess of the amounts identified in part 2b above, which results in an exchange of water outside the SGA area, should include a plan to mitigate impacts resulting from the increased groundwater use (e.g., expanding conjunctive use to import additional surface water in wet periods).

d) The planned groundwater pumping identified in part 2b above does not include consideration of potential shortage conditions resulting from cutbacks of Federal water project deliveries or other shortage conditions within the San Juan Wholesale Area. Additional pumping during these conditions is not subject to mitigation planning identified in Part 2c above.

e) The planned groundwater pumping identified in part 2b above does not include consideration of impacts associated with known and unknown contaminants in groundwater. Current and future pumping associated with remediation efforts in the Eastern Unit is not subject to mitigation planning identified in part 2c above.

f) The pumping amounts identified above will be evaluated not later than five years from the date of adoption.

3. Western Unit

a) The Western Unit historically has relied almost exclusively on surface water for supply. Groundwater pumping has been primarily by independent pumpers, and no significant impacts to the groundwater basin have been observed.

⁴ This is the calculated unimpaired inflow to Folsom Reservoir for March through November as presented in Department of Water Resources Bulletin 120.

- b) As a result of current and past practices, and the current water supply systems in place in the Western Unit, the Western Unit has not been assigned a basin sustainability goal at this time.
- c) The geology of the Western Unit is characterized by finer-grained flood basin deposits associated primarily with the Sacramento River. As a consequence of this geologic structure, additional pumping could result in significant drawdown of groundwater elevations. Groundwater pumping in the Western Area, therefore, should include an appropriate monitoring and mitigation program.

IV. Banking and Exchange Principles

Determining the Volume of Water Available for Exchanges Outside of the SGA Area.

The quantity of water available for exchange will be based upon a variety of factors, including the effective date on which the project participant is awarded banked water credits, how much water can be demonstrated to have been banked, and the quantity of banked water that should remain in the basin to mitigate against any unforeseen impacts (referred to as the “basin mitigation factor”) or to meet an agency’s sustainability goal.

A. Effective Date – the SGA⁵ was formed in August 1998. The SGA Joint Powers Agreement (JPA) cites the following purposes for establishing SGA: 1) to maintain the long-term sustainable yield of the North Area Basin; and 2) to manage the use of groundwater in the North Area Basin and facilitate implementation of an appropriate conjunctive use program by water purveyors. Given that these foundational purposes are linked to the formation of SGA, it is recommended that water available for exchange operations under the program managed by SGA should include documented banked water dating back to August 1998.

B. Exchangeable Water Balance – while the intent of the banking program is to recognize investment in conjunctive use operations in the basin, it is important to consider the commitment needed to ensure the sustainability of the underlying groundwater basin for future beneficial uses. A significant cone of depression developed in the Central Unit of the basin is a potential threat to basin sustainability if not managed. Therefore, water available for banking and exchange through this program should be a quantity of water over and above that needed to stabilize groundwater elevations in the basin. In 2006, SGA conducted a study of water agencies that were historically reliant on groundwater for supply in the Central Unit overlying the cone of depression. That study determined that an annual average reduction of

⁵ SGA was initially formed as the Sacramento North Area Groundwater Management Authority (SNAGMA) on August 1, 1998. The organization’s name was changed to SGA through an amendment of the joint powers agreement on May 7, 2002.

groundwater extraction of 11,784 acre-feet from the average extraction from 1993 through 1997 would result in stable groundwater elevations in the Central Unit. The study also estimated the responsibility of each agency to attain this target, based on their historical use. For agencies in the Central Unit, the initial amount of exchangeable water will be calculated as:

For the period August 1, 1998 through December 31, 2011, the amount of documented banked water will include the volume of surface water put to beneficial use within the Central Unit above baseline levels of surface water use during or prior to the period 1993 through 1997.

Beginning January 1, 2012, exchangeable water in a given year will be calculated as:

The volume of surface water put to beneficial use within the Central Unit in excess of the amount necessary to offset groundwater extraction to meet the agency's respective basin sustainability goal. The annual exchangeable water will be added to the exchangeable water balance on an annual basis.

There is currently no methodology for accurately determining savings from conservation efforts as a component of water supply⁶. While water conservation efforts will help an agency meet its basin sustainability goal (by reducing pumping), conserved water will not be included as net banked water for purposes of banking and exchange from the SGA area at this time.

For agencies in the Eastern and Western units, the amount of exchangeable water will be individually determined by the SGA Board, based on records of surface and groundwater use and observations of groundwater elevations.

C. Basin Mitigation Factor – In 2009, SGA completed an analysis using the Sacramento County Integrated Groundwater and Surface Water Model to determine the fate of water banked in the basin. The simulation included banking of nearly 150,000 acre-feet of water from actual in-lieu recharge operations in the basin from 1998 through 2008. The model demonstrated that banked groundwater generally remains within the operational control of SGA member agencies (i.e., the banked groundwater did not flow out of the groundwater basin). These results generally reflect the significant cone of depression in the Central Unit of the SGA area.

Notwithstanding the foregoing, the SGA Board proposed a conservative approach to basin losses to ensure that banking and exchange programs are consistent with other

⁶ DWR has been tasked with developing a method for correcting annual demand data to reflect changes in annual climatic conditions in 2010, which may help better identify water savings associated with conservation efforts.

basin sustainability objectives in the Framework. The Framework, therefore, assigns a basin mitigation factor to exchanges outside of the basin to protect against negative impacts of the loss of this resource and to help recovery of the cone of depression in the basin. SGA will assess a 5% reduction to water banked on behalf of agencies from outside the SGA area that is subsequently exchanged outside the SGA area or substituted for surface water that will be exchanged. The basin mitigation factor will be applied during the withdrawal phase of the banking and exchange operation. SGA will work with agencies that participate in banking and exchange programs to develop and implement the basin mitigation factor as warranted by the specific circumstances of each transaction.

D. Use of Banked Water to Meet Basin Sustainability Goal – An agency with a positive exchangeable water balance may reduce its balance and apply the credit toward meeting its basin sustainability goal.

E. Transfer of banked water credits - An agency with both a positive exchangeable water balance and a positive basin sustainability balance may transfer exchangeable water credits to another agency in the basin. The receiving agency may apply the credit to either its exchangeable water or basin sustainability balance.

F. Attainment of the basin sustainability goal (i.e. maintaining a positive basin sustainability balance), as well as maintenance of a positive balance of exchangeable water will be required for SGA endorsement of banking and exchange programs in which water is exported from the SGA area.

Examples of how a few agencies could operate under this Framework are provided as Exhibit 3.

V. Model Groundwater Banking Program Elements

The purpose of this MGBP is to recognize and create incentives for agencies developing or expanding conjunctive use practices beyond basin sustainability goals. Conjunctive use will be critical to the region's future water supply and to the sustainability of the underlying groundwater basin. The MGBP will establish a consistent set of policies to ensure the sustainability of the groundwater basin, while creating opportunities to recover investments for agencies that can demonstrate they have banked water in the basin in excess of basin sustainability goals.

The MGBP elements listed below include all of the elements arising over an entire banking and exchange cycle. The timing as to when information would be required by SGA would depend on the timing of the operations. For example, a banking and exchange agreement might involve the banking of excess surface water on behalf of an agency from outside the SGA area in a wet year, with the recovery of that water occurring in a future dry year. In

such a case, the exchange agreement and environmental documentation may be required at the time water is banked. Since the recovery of banked water could occur several years into the future, it may be more appropriate to secure permits and develop the plans listed below at that time.

- A. Exchange agreement - an exchange agreement is the agreement between the seller and buyer. While there is no single model for this agreement, SGA staff can provide examples of existing exchange agreements in other parts of the state.
- B. Environmental documents – depending on the program, preparation of environmental documentation may be necessary. In other cases, banking and exchange programs may rely on existing environmental documentation. For example, the 2009 Drought Water Bank used existing CEQA coverage under the Environmental Water Account (EWA). Therefore, potential participants in the program would not require CEQA. Potential exchanges not falling under an existing state Department of Water Resources program (e.g., EWA) may require NEPA compliance, if the exchange involves the use of federal facilities.
- C. County permit – Sacramento County has an ordinance that pertains to the export of groundwater and surface water outside the county. Sacramento County Water Agency Code Title 3 Chapter 3 under Section 3.40.090 is as follows:

Groundwater and Surface Water Export

Groundwater or surface water shall not be transported in any manner from Sacramento County to any point outside the County, except pursuant to a permit issued by the Engineer for each and every source and/or location of water export in accordance with the following:

1) Application. To obtain a permit the owner or authorized agent shall first file an application in writing stating the following:

- a) Name of applicant, owner of source, owner of place of use, consulting engineer who will plan and design the work;*
- b) Description of proposed action, location of source(s) and point(s) of use;*
- c) Justification for proposed action;*
- d) Any other information requested by Engineer.*

2) Engineer shall within thirty days of receipt of the application, or within thirty days of receipt of additional information, make such investigations as necessary to determine if the proposal is in conformance with County water planning policies adopted and revised from time to time by the County and the Sacramento County Water Agency, and if the proposal will impose liability on

the County or the Water Agency, or cause adverse impacts on the source, the area of use, or the environment.

3) After investigation Engineer shall approve, approve conditionally, or disapprove the application for permit. Engineer shall not grant a permit if the permit will authorize work or activity which is inconsistent with the general plan of the County of Sacramento, the water plan of the Sacramento County Water Agency, or a specific plan of the County or Water Agency which may be affected by the work or activity.

Nothing in this section contained shall apply to those public water purveyors providing water service in two or more counties within a legally defined service area.

- D. Exchange Recovery Plan – prior to the extraction of groundwater for the purposes of exchanging surface water or groundwater from the SGA area, the project proponent⁷ shall submit an Exchange Recovery Plan (ERP) to SGA and any appropriate state and federal agencies. The ERP should be submitted at least two months in advance of expected operations to allow staff time to review the ERP and report to the SGA Board. Consistent with criteria developed for state and federal groundwater substitution transfers, the ERP shall include the five elements discussed below. Note that the state and federal programs also have a minimum two month review time, so these documents should be submitted concurrently to the appropriate agency.
- i. General proposal information – the project proponent should provide a brief summary of the proposed project including, but not limited to, the participants, the contracted volumes available for exchange, and the term of the agreement.
 - ii. Exchange project map – the project proponent shall prepare a project map showing the locations of all production wells and clearly identifying the wells to be used in the recovery operations. The map should also include major roads, hydrology, district boundaries, and wells of adjacent water purveyors to the purveyor subject to the exchange operations. Additionally, the map should show the locations of any small water systems licensed through the County or State within one mile of the proposed operations. SGA can provide information on production wells of member agencies as well as the locations of small water systems.

⁷ The project proponent is the SGA member agency proposing to enter into an exchange agreement.

- iii. Well information table – the project proponent shall prepare a table of information for all wells expected to participate in the operation. The following information shall be included in the table, with each data item listed in columnar format:
1. Well owner name
 2. Well identification number (per owner's naming)
 3. State Well Number (if assigned)
 4. Latitude of well
 5. Longitude of well
 6. Township/range/section descriptor of well
 7. Land surface elevation at well location
 8. Total depth of well
 9. Depth of annular seal
 10. Well construction method
 11. Diameter of well casing
 12. Screen interval (include top and bottom of interval referenced in feet below land surface. For wells with multiple screens, each interval should be indicated in distinct rows on the spreadsheet)
 13. Gravel pack interval (include top and bottom for each gravel pack interval corresponding to screen interval from item above)
 14. Estimated well capacity (gallons per minute)
 15. Pump power source (electric, diesel, etc.)
- iv. Geologic logs – for each well, provide available geologic/lithologic information (e.g., Driller's log, electric log). SGA maintains much of this information in its data management system. SGA staff may be able to assist in compiling this information.
- v. Water quality data – baseline water quality data should include the information listed below. SGA maintains much of this information in its data management system. SGA staff may be able to assist in compiling this information.
1. For each well in the program, include the most recent measurement of total dissolved solids (TDS) or electrical conductivity (EC) and the date of the measurement.
 2. For each well in the program, disclose any past primary or secondary maximum contaminant level (MCL) exceedances and the current status of the well with respect to the MCL.
 3. Disclose any known areas of groundwater contamination within one mile of the service area (or the proposed wells in the program) of the project proponent.

- vi. Baseline extraction – for each well in the program, the project proponent should provide a baseline extraction by month in acre-feet to serve as a baseline from which additional extraction will serve to document “performance” of the exchange. The 2009 Drought Water Bank used 2008 as the baseline unless the project proponent was able to demonstrate that a different method for determining a baseline was more appropriate. Additionally, monthly data is important because of potential restrictions as to when the water can be physically transported. For example, the 2009 Drought Water Bank could only use additional extractions from July 1 through September 30 because of through-Delta pumping restrictions. SGA staff coordinated with DWR on the 2009 Drought Water Bank and can assist in determining an appropriate basis for establishing a baseline.
 - vii. Extraction schedule – for each well in the program, the project proponent should provide an estimated pumping schedule for each month that exchange operations are expected to occur. This information should be combined with the table of baseline extraction above and include the estimated net delivery of each well resulting from extractions above the baseline.
- E. Monitoring plan – prior to the extraction of groundwater for the purposes of exchanging water from the SGA area, the project proponent shall submit a Monitoring Plan to SGA and any applicable state or federal agencies. To allow time for review and discussion, the Monitoring Plan should be submitted two months prior to expected exchange operations. Consistent with guidelines developed with state and federal groundwater substitution transfers, the plan should include the following elements:
- i. Monitoring – the project proponent should design a monitoring program that is intended to characterize the expected impacts of the pumping during and following the exchange recovery operations. The project proponent should demonstrate that it has coordinated with adjacent purveyors and is monitoring to minimize impacts to its neighbors. Additionally, there are more than 20 small water systems⁸ that are reliant on groundwater as their primary supply within the SGA area. The monitoring plan should identify any systems within one mile of the

⁸ A small water system is defined by the California Department of Public Health as water for human consumption that has 15 or more service connections or regularly served at least 25 individuals at least 60 days out of the year, but has fewer than 200 service connections. This includes any collection, treatment, storage, and distribution facilities.

boundary of the proposed operations and address the monitoring in place to observe potential impacts to these small systems.

When possible dedicated monitoring wells (i.e., non-producing wells) should be incorporated into the monitoring well network. SGA maintains a series of dedicated wells in the basin, so the project proponent should also coordinate with SGA to ensure that these wells are monitored where applicable. Required monitoring includes:

1. Pre-exchange water elevations – in order to determine the potential impacts to groundwater elevations following the exchange operations, the project proponent shall measure groundwater elevations in the selected water elevation monitoring network by April 15 prior to commencing exchange operations (levels should be collected earlier if the performance period starts prior to the April 15 target date).
 2. During exchange water elevations – during the performance period, water elevations will be collected at the beginning of each month from the approved monitoring well network. Elevations should be as static as possible by cycling the well out of production for as long as practicable prior to collecting the data. Typically, a minimum of several hours should be sufficient.
 3. During exchange water quality – water quality shall be measured at a subset of 10% of wells participating in the program. The project proponent should attempt to achieve the highest practicable level of geographic distribution and the deepest wells in its system. During the performance period, water quality shall be monitored at the wellsite by collecting a grab sample of water from the production well and measuring either TDS or EC.
 4. During exchange groundwater extractions – for each well in the program, the project proponent should provide meter readings of extracted data for each calendar month of performance compared to the baseline for that well. The net groundwater exchanged will be the result of subtracting the baseline from the actual water produced.
 5. Post-exchange water level monitoring – typically, monthly water level monitoring continues until water levels have recovered to elevations prior to operations or until April of the year following the exchange, whichever comes first. Requests to consider discontinuing water level monitoring prior to these times should be submitted to SGA.
- ii. Reporting – monitoring and extraction data should be submitted on a monthly basis by the 15th day of the month for the previous calendar

month for the duration of the performance period. A final report will be submitted by May of the year following the exchange operation that shows a comparison of spring groundwater elevations (assume measurement of April 15) from prior to the exchange to those after the exchange.

- F. Mitigation plan – the mitigation plan is intended to minimize impacts to adjacent water purveyors or other third parties. Prior to the extraction of groundwater for the purposes of exchanging water from the SGA area, the project proponent shall submit a Mitigation Plan to SGA and any applicable state or federal agencies. To allow time for review and discussion, the Mitigation Plan should be submitted two months prior to expected exchange operations. Consistent with guidelines developed with state and federal groundwater substitution transfers, the plan should include the following elements:
- i. A designated point of contact for the project proponent where all concerns related to operation of the exchange program can be directed.
 - ii. A timeline/schedule for responding to any concerns.
 - iii. A procedure for verifying whether a problem exists related to the exchange operations.
 - iv. A procedure for notifying SGA and other potentially impacted parties.
 - v. A discussion of the range of possible actions to respond to verified problems resulting from the exchange operations.

VI. Roles under Phase III of the Framework

Role of SGA Staff:

- Develop sustainability goals for the basin in consultation with water agencies and the SGA Board.
- Review water agency plans for meeting sustainability goals and report to the SGA Board.
- Preliminarily determine net banked water and track changes to banked water amounts for each agency.
- Review and report on whether the sustainability goals appear to be appropriate for basin sustainability in the Biennial Basin Management Report beginning in 2012.

Role of the SGA Board:

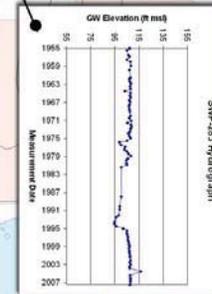
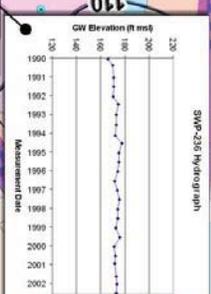
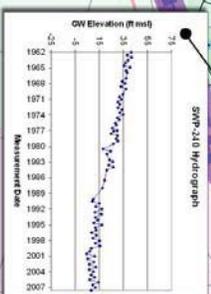
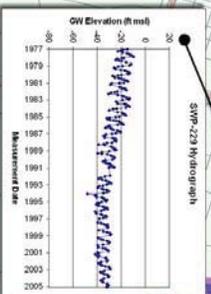
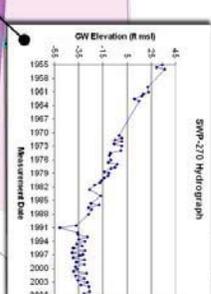
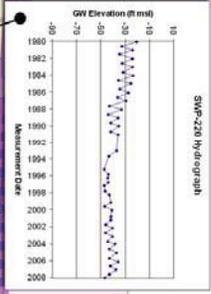
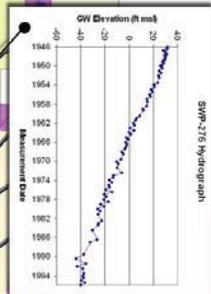
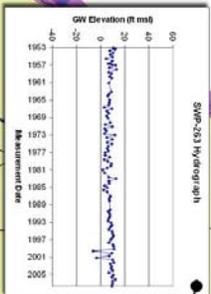
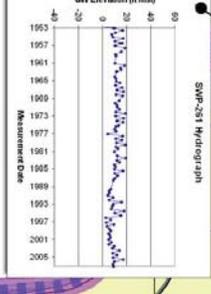
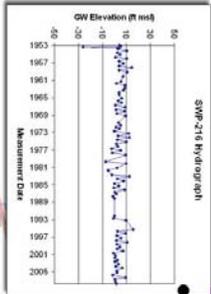
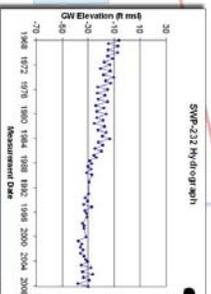
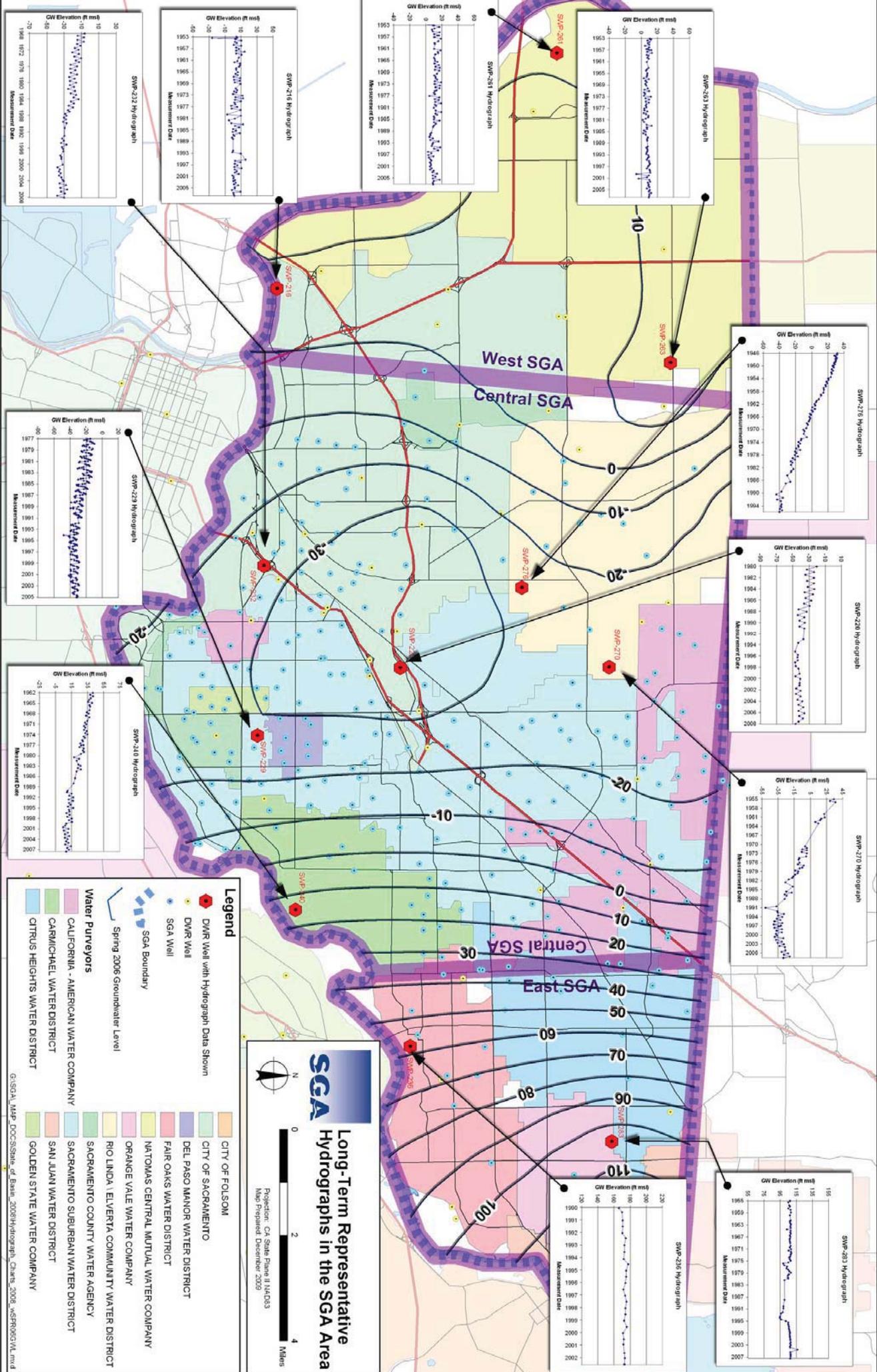
- Adopt the Water Accounting Framework Policy.
- Adopt the initial voluntary basin sustainability plans for agencies in the Central Unit.
- Approve initial net banked water and annual transactions.
- Make determinations if basin sustainability plans are consistent with Framework intent.

- The Board will not have any enforcement power to prevent an agency from implementing alternatives to achieve basin sustainability goals.
- The Board will not have authority to enforce basin sustainability goals, or otherwise limit groundwater extractions.

Role of the overlying agencies:

- Implement programs to achieve the agency's basin sustainability goal on a voluntary basis.
- If desired, develop a basin sustainability plan that allows increases in groundwater pumped in dry years (beyond the basin sustainability goals) while not changing their long-term groundwater extraction rate.
- If desired, enter into agreements that allow water to be banked in the basin and exchanged outside the basin.
- If desired, enter into agreements with other water agencies inside the basin to improve water supply reliability by transferring groundwater or surface water.
- Submit alternative basin sustainability plans to the SGA.

Exhibit 1
SGA Basin Figure Showing SGA Units



Legend

- DWR Well with Hydrograph Data Shown
- CITY OF FOLSOM
- CITY OF SACRAMENTO
- DEL PASO MANOR WATER DISTRICT
- FAIR OAKS WATER DISTRICT
- NATOMAS CENTRAL MUTUAL WATER COMPANY
- ORANGE VALE WATER COMPANY
- RIO LINDA - ELVERTA COMMUNITY WATER DISTRICT
- SACRAMENTO COUNTY WATER AGENCY
- SACRAMENTO SUBURBAN WATER DISTRICT
- SAN JUAN WATER DISTRICT
- GOLDEN STATE WATER COMPANY

Water Purveyors

- CALIFORNIA - AMERICAN WATER COMPANY
- CARMICHAEL WATER DISTRICT
- SAN JUAN WATER DISTRICT
- GOLDEN STATE WATER COMPANY

Spring 2006 Groundwater Level

SGA Boundary

DWR Well

SGA Well

Spring 2006 Groundwater Level

SCA

Long-Term Representative Hydrographs in the SGA Area

Projection: CA State Plane II NAD83
Map Prepared: December 2009

0 2 4 Miles

G:\SCA_MAP_DOCUMENTS\of_Bank_2008\Hydrographs_Champ_2006_wsf060504.mxd

Exhibit 2
Central Unit Basin Sustainability Goals

Table 1. Central Unit Basin Sustainability Goals

Agency	Groundwater Pumping prior to SGA Formation (ac-ft) (1)	% Total Groundwater Pumping prior to SGA Formation	Sustainable Pumping Estimate (ac-ft) (2)	Average Annual Basin Sustainability Goal (ac-ft)
Carmichael Water District	7,516	7.4	6,646	870
City of Sac	23,287	22.9	20,591	2,696
California American Water	20,351	20.0	17,995	2,356
Del Paso Manor Water District	1,657	1.6	1,465	192
Golden State Water Company	1,242	1.2	1,098	144
Rio Linda/Elverta Community Water District	3,259	3.2	2,882	377
Sacramento, County of	4,850	4.8	4,288	562
Sacramento Suburban Water District	39,622	38.9	35,035	4,587
Total	101,784	100	90,000	11,784

1) Data based on average pumping 1993 through 1997.

2) The sustainable pumping estimate reflects observations of extractions and drawdowns based on facilities in the basin as of 2004. This should not be construed as a fixed volume of water that can be extracted from the basin under future facilities and operations.

Exhibit 3
Water Accounting Framework Examples

Exhibit 3
WATER ACCOUNTING FRAMEWORK EXAMPLES

Principles

These principles apply to the tracking of the Water Accounting Framework for those agencies within the Central Unit of the SGA area.

- All agencies start with a zero balance for basin sustainability beginning on January 1, 2012.
- Agencies that can demonstrate surface water deliveries in excess of baseline levels (1993-1997) during the period August 1, 1998 through December 31, 2011 will be credited with exchangeable water.
- Beginning on January 1, 2012, the volume of surface water imported, beyond that necessary to meet the pumping target, is the annual net banked water, credited to the exchangeable water balance.
- Credits may be transferred from an agency's exchangeable water balance to its basin sustainability balance.
- Credits may be transferred from an agency's exchangeable water balance to the exchangeable water balance *or* the basin sustainability balance of another agency.
- A basin sustainability balance is neither transferable to another agency nor to the exchangeable water within an agency's accounting.
- An agency must have a positive or neutral sustainability balance to participate in a transfer of surface water or groundwater outside the basin.
- The 5% basin mitigation factor assessed on banked water applies only to direct pumping of groundwater for transfer outside the basin or to future banking for parties outside the basin.

Examples for three agencies operating under the Framework are provided below along with the accompanying table.

Agency A – Agency A is actively practicing conjunctive use. Agency A built a large balance of exchangeable water (100,000 af) through actions prior to adoption of the Framework. Agency A will take advantage of opportunities to transfer surface water to which it has access, and may develop the capacity to transfer groundwater directly.

2012 – Agency A pumped 16,000 acre-feet (af), which is less than its target of 20,000 af. The basin sustainability balance increases by 4,000 af. Agency A took delivery of 10,000 af of surface

Water Accounting Framework, Phase III

water. Of this amount, 6000 af went to offset pumping to meet the target (total demand was 26,000 af); 4000 af is credited toward the exchangeable water balance.

2013 – Agency A pumped less than the target. Basin sustainability balance increases by 1,000 af. No surface water delivered, so banked water balance does not increase.

2014 – Agency A pumping exceeded target. Basin sustainability balance reduced. Agency A took delivery of 3,000 af surface water. No credit to exchangeable water balance since, even with surface water, pumping target still exceeded. No debit to exchangeable water.

2015 – Agency A pumping exceeds target. Basin sustainability balance decreased. No surface water transactions, exchangeable water balance does not change.

2016 – Agency A pumping exceeds target. Basin sustainability balance decreased to negative. No surface water transactions, exchangeable water balance does not change. Agency A may carry negative balance if no transfer proposed.

2017 – Agency A pumping meets target. Agency A transfers 5,000 af of available surface water. Debit 1,000 af from exchangeable water to achieve zero basin sustainability balance, because no transfers of available surface water if basin sustainability balance is negative.

2018 – Agency A pumping less than target. Basin sustainability balance increased. Agency A uses 8,000 af surface water; 7,000 af toward meeting pumping target, 1,000 af added to exchangeable water. 3,000 af surface water transfer not debited since pumping target was met.

2019 – Agency A pumps 35,000 af; of which 14,000 af is transferred through direct pumpback. 14,000 af debited from exchangeable water to achieve zero sustainability balance. 700 af (5% basin mitigation factor) debited for direct groundwater export.

Agency B – Agency B is not engaged in active conjunctive use, but intends to achieve its target pumping through water efficiency and/or purchase of credits from others.

Agency B exceeds pumping target in early years (2012-2014), resulting in negative basin sustainability balance. Beginning in 2015, conservation reduces pumping and basin sustainability balance recovers. In 2019, Agency B purchases 2,000 af of exchangeable water credits from Agency C to zero out basin sustainability balance.

Agency C – Agency C practices limited conjunctive use, taking relatively small volumes of surface water when it is available. Having done this for several years, Agency C begins with a positive exchangeable water balance of 3,000 af.

2012 – Agency C exceeds pumping target, basin sustainability balance goes negative.

Water Accounting Framework, Phase III

2013 – Agency C takes delivery of surface water, but entire amount goes toward offsetting pumping to meet target. No increase to exchangeable water balance.

2015-16 – Surface water deliveries exceed that necessary to offset pumping. Exchangeable water balance increases.

2019 – Agency C sells 2,000 af exchangeable water credits to Agency B. No basin mitigation factor applied since transfer was in-basin.

Basin Sustainability Goal

Exchangeable Water

Agency A	Target Pumping	Actual GW pumped	Total Demand	Transfer of Credits	Basin Sustainability Balance	Surface Water for Conjunctive Use	Water Transfer (out of basin)	Credits transferred	Net Banked Water	Exchangeable Water Balance
	20,000									100,000
2012		16,000	26,000		4,000	10,000	0	0	4,000	104,000
2013		19,000	19,000		5,000	0	0	0	0	104,000
2014		21,000	24,000		4,000	3,000	0	0	0	104,000
2015		22,000	22,000		2,000	0	0	0	0	104,000
2016		23,000	23,000		-1,000	0	0	0	0	104,000
2017		20,000	20,000	1,000	0	0	5,000	-1,000	0	103,000
2018		19,000	27,000		1,000	8,000	3,000	0	1,000	104,000
2019		35,000	35,000	14,000	0	0	14,000	-14,000	-700	89,300

Basin Sustainability Goal

Exchangeable Water

Agency B	Target Pumping	Actual GW pumped	Total Demand	Transfer of Credits	Basin Sustainability Balance	Surface Water for Conjunctive Use	Water Transfer (out of basin)	Credits transferred	Net Banked Water	Exchangeable Water Balance
	10000									0
2012		12000	12000		-2,000	0	0	0	0	0
2013		12000	12000		-4,000	0	0	0	0	0
2014		11500	11500		-5,500	0	0	0	0	0
2015		10000	10000		-5,500	0	0	0	0	0
2016		9500	9500		-5,000	0	0	0	0	0
2017		9000	9000		-4,000	0	0	0	0	0
2018		9000	9000		-3,000	0	0	0	0	0
2019		9000	9000	2000	0	0	0	0	0	0

Basin Sustainability Goal

Exchangeable Water

Agency C	Target Pumping	Actual GW pumped	Total Demand	Transfer of Credits	Basin Sustainability Balance	Surface Water for Conjunctive Use	Water Transfer (out of basin)	Credits transferred	Net Banked Water	Exchangeable Water Balance
	8000									3,000
2012		9,000	9,000		-1,000	0	0	0	0	3,000
2013		8,000	9,000		-1,000	1,000	0	0	0	3,000
2014		8,000	8,000		-1,000	0	0	0	0	3,000
2015		7,000	9,000		0	2,000	0	0	1,000	4,000
2016		7,000	8,500		1,000	1,500	0	0	500	4,500
2017		7,500	7,500		1,500	0	0	0	0	4,500
2018		8,500	8,500		1,000	0	0	0	0	4,500
2019		8,000	8,500		1,000	500	0	-2,000	0	2,500



Topic: Election of 2024 SGA Officers
Type: New Business
Item For: Action
Purpose: Policy 200.1 (Rules of Procedure governing the Sacramento Groundwater Authority)

SUBMITTED BY:	James Peifer Executive Director	PRESENTER:	Randy Marx Chair
---------------	------------------------------------	------------	---------------------

EXECUTIVE SUMMARY

This is an action item to elect the Chair and Vice Chair for 2024.

STAFF RECOMMENDATION:

Elect 2024 Chair and Vice Chair.

BACKGROUND

The SGA Board elects a chair and vice-chair annually at its December meeting. The Chair appointed Director Yasutake (City of Folsom); Director Ewart (City of Sacramento); and Director Schubert (Golden State Water Company) as the 2024 SGA Officer Nomination Committee.

Policy 200.1, Section 3.06, (a) states:

*The Board of Directors shall elect a Chair and a Vice Chair, and may elect such other officers as the Board shall find appropriate. The Chair shall preside over meetings of the Board, and in the Chair's absence, the Vice Chair shall preside. Board officers shall serve for a term of one (1) calendar year unless sooner terminated at the pleasure of the Board. If, for any reason, an officer is appointed after the commencement of a calendar year, the term of office shall expire at the end of the calendar year. **Elections for Chair and Vice Chair shall be conducted not later than the last regularly scheduled meeting which precedes the calendar year for which the appointments are made.** Nothing in these rules shall preclude an officer from serving more than one term, if so appointed pursuant to these Rules.*

Topic: Executive Directors’ Report
Type: New Business
Item For: Information
Purpose: General

SUBMITTED BY:	Jim Peifer Executive Director	PRESENTER:	Jim Peifer Executive Director
---------------	----------------------------------	------------	----------------------------------

EXECUTIVE SUMMARY

This is an information item for the Executive Director to provide a briefing on important activities, reports, communications, advocacy, and other updates for the Sacramento Groundwater Authority Board of Directors.

STAFF RECOMMENDED ACTION

None. This item is for information/discussion only.

BACKGROUND

This agenda item is a standing item to provide an opportunity for the Executive Director to report to the Executive Committee on important activities, reports, communications, advocacy, and other updates.

Grant Funding – During December 2023, the SGA Executive Director anticipates signing an agreement with the DWR securing the approximately \$3.5 million in grant funding to support projects to recharge the groundwater basin and monitor conditions in the Sacramento region’s North American Subbasin.

Water Bank - RWA discussed the status of Sacramento Regional Water Bank (Water Bank) development with Groundwater Sustainability Agencies in both the North and South American subbasins on December 12th. The discussion focused on how the Water Bank will aid Sustainable Groundwater Management Act (SGMA) implementation through operations and the new Water Accounting System (WAS).

RWA hosted a Stakeholder Forum public meeting during the evening of December 12.

Senate Bill 659 – SB 659 was signed by the Governor after sailing through both legislative houses with broad support by a wide range of stakeholder interests. The RWA is sponsored SB 659, and it aims to establish a state plan to increase groundwater storage in California.

Grandpark Development – The Grandpark Developer’s engineer and representative met with Mr. Peifer and Mr. Joseph to discuss the water supply strategy for the Grandpark development. This development is proposed to occur north of North Natomas, within the unincorporated Sacramento

Agenda Item 8



County. A letter has been sent to Mr. Ken Giberson with the SGA staff's feedback. (See attached letter.)

ECOS Letter – The SGA has received a letter from the Environmental Council of Sacramento regarding the creation of a public process for the Annual Report. Staff proposes to include an item on the February (2024) SGA Agenda to allow for public input.

ATTACHMENTS

Letter to Mr. Ken Giberson

Letter from ECOS



Sacramento Groundwater Authority
*Managing Groundwater Resources
in Northern Sacramento County*

2295 Gateway Oaks Drive
Suite 100
Sacramento, CA 95833

Tel: (916) 967-7692
Fax: (916) 967-7322
www.sgah2o.org

December 4, 2023

MacKay & Soms
Attention: Mr. Ken Giberson
1025 Creekside Ridge Dr. #150
Roseville CA 95678

Submitted via email kgiberson@msce.com

Re: Grandpark Development Project – Water Supply Planning

Dear Mr. Giberson,

The Sacramento Groundwater Authority (SGA) appreciates the overview you provided of the Grandpark development project (Grandpark) held at the SGA offices on August 28, 2023, and the follow up discussion on October 24, 2023. This overview provided SGA an opportunity to hear directly from Grandpark’s consulting team about the efforts that have been undertaken to plan and analyze data and information to obtain a future water supply for Grandpark. During these meetings, SGA was introduced to the consulting team’s work related to the topics of groundwater modeling, land use planning (based on the Grandpark Specific Plan) and preliminary water system design. We understand that Grandpark’s preferred water supply strategy will utilize groundwater to initially supply project demands. Based on your presentation, it is estimated that 67 percent of Grandpark will develop before surface water is available. After surface water is available, the customers in the development will be served approximately 80 percent surface water and the balance will be groundwater on a long term basis.

At your request, we are providing you this letter with our feedback. Below are questions and information that we believe will be helpful to learn more about Grandpark and the potential affects to the North American groundwater subbasin (NASb) and specifically how Grandpark would be developed consistent with the sustainability of our groundwater supplies. The SGA is one of five Groundwater Sustainability Agencies (GSAs) that overlie the NASb and have responsibility to maintain sustainable groundwater conditions and the sustainable yield of the basin consistent with the requirements identified in the Sustainable Groundwater Management Act (SGMA) and NASb Groundwater Sustainability Plan (GSP). Pursuant to our regional GSP implementation agreement, each GSA is responsible for "Undesirable Results" caused by their individual actions, including land use decisions. For this reason, please see the following questions regarding Grandpark.

1. Based on our discussion and information presented during our meetings, there are multiple possible water supply development scenarios that illustrate Grandpark will rely initially and for approximately the next 20 years solely on groundwater supply from NASb. Most scenarios show a source of surface water supply replacing a portion of, if

California American Water
Carmichael Water District
Citrus Heights Water District
City of Folsom
City of Sacramento
County of Sacramento
Del Paso Manor Water District
Fair Oaks Water District
Golden State Water Company
Natomas Central Mutual Water Company
Orange Vale Water Company
Rio Linda / Elverta Community Water District
Sacramento Suburban Water District
San Juan Water District
Agricultural and Self-Supplied Representative

Letter to MacKay & Somps
Grandpark Development Project – Water Supply Planning
December 4, 2023

not most of the demands initially met with groundwater. Please provide analysis and information as to how these scenarios, including the scenario where groundwater supply meets demand at Grandpark buildout without surface water will be addressed. We will be interested in seeing an analysis which demonstrates that Grandpark development without surface water availability in addition to each scenario will be consistent with the NASb GSP and will not create any impacts or limit the ability for the NASb to be operated in accordance with the GSP and without undue burden on the remaining sustainable yield of the basin.

2. Related to item 1, what financial resources and assurance does Grandpark have that surface water supplies will be provided to meet demands for this project? Given that all residences within the proposed project will rely upon surface water as well as groundwater, the funding plan should include equal participation in surface water investment through all phases of development. In addition, what if any conjunctive water management strategies are being planned to limit the use of groundwater? In addition, do the scenarios presented meet the conjunctive use requirements of the conservation element of the Sacramento County General Plan?
3. Although SGMA provides GSAs with certain powers and authorities as it relates to groundwater management, the County of Sacramento is the public agency that approves new development. Any development approval should be in close coordination with the appropriate water purveyor since the water purveyor is the entity that would be subject to enforcement should the groundwater basin experience negative consequences from the Grandpark development.

SGA appreciates your team's willingness to engage with us and discuss this project. If you have any questions or would like to discuss anything presented in this letter further, please contact Trevor Joseph of our office at (916) 990-3035 or tjoseph@rwah2o.org.

Sincerely



James Peifer
Executive Director

Cc: Mr. Trevor Joseph (SGA - Manager of Technical Services)
Mr. Matt Satow (County of Sacramento Department of Water Resources)
Ms. Kerry Schmitz, (County of Sacramento Department of Water Resources)
Mr. Michael Grinstead, (County of Sacramento Department of Water Resources)
Mr. Todd Smith (County of Sacramento Department of Community Development)
Mr. Brett Ewert (City of Sacramento Department of Utilities)
NASb Groundwater Sustainability Agencies (GSAs)
Ms. Kimberly Reese (Reclamation District 1001)
Mr. Hayden Cornwell (South Sutter Water District)
Mr. Guadalupe Rivera (Sutter County)
Ms. Christina Hanson (Placer County)



Post Office Box 1526 | Sacramento, CA 95812-1526

November 16, 2023

Jim Peifer
Director, Regional Water Authority
jpeifer@rwah2o.org

John Woodling
Executive Director, Sacramento Central Groundwater Authority
jwoodling@geiconsultants.com

Austin Miller
Sloughhouse RCD Executive Director
millerau@saccounty.gov

Subject: Subbasin Groundwater Monitoring, Groundwater Dependent Ecosystems, and the 3rd year GSP Annual Report

Gentleman,

The Environmental Council of Sacramento (ECOS) has closely followed the development and implementation of the North American, South American and Consumnes Groundwater Sustainability Plans (GSP). Quite a bit of work was done to characterize these groundwater resources including the Groundwater Dependent Ecosystems (GDE) and Interconnected Surface Waters (ISW) within them, and to begin the work of bringing the three subbasins into full sustainability. With both the recent droughts and climate change, this work will be pivotal in helping to assure both adequate regional water supplies and protection of environmental resources that depend on groundwater.

Each Groundwater Sustainability Agency's (GSA) groundwater monitoring network is critical to understanding subbasin operations and potential impacts to GDEs and ISWs from dry year pumping and climate change. We understand that work planned to fill out and maintain the groundwater monitoring networks has or may be deferred, and, in some cases, has been made more critical by the loss of some monitoring wells. It is important that the region fill in any data gaps resulting from less than optimum monitoring systems. Initial monitoring system shortcomings were identified in the GSPs along with projects and management actions to correct them. We Hope each GSA will include within its GSP third year progress report, efforts and timetables to bring the monitoring well systems into operational states that allow a comprehensive understanding of each groundwater subbasin.



ECOS

ENVIRONMENTAL
♦ COUNCIL ♦
OF SACRAMENTO

Post Office Box 1526 | Sacramento, CA 95812-1526

The GSPs have left unanswered questions regarding the status and protection of GDEs and ISWs in each subbasin. Comprehensive monitoring programs are key to answering these questions. The three GSPs had different levels of ISW and GDE characterization, but all three were noted in the Department of Water Resources (DWR) approvals letters as needing more work to close data gaps. We hope that each GSA will include within its third year progress report efforts and timetables to address the areas of GDE and ISW concern. DWR summary concerns regarding each subbasin's deficiencies in this area are as follows.

DWR North Basin GSP approval letter: "The Plan acknowledges and identifies interconnected surface waters within the Subbasin. The GSAs proposes initial sustainable management criteria to manage this sustainability indicator and measures to improve understanding and management of interconnected surface water. The GSAs acknowledge, and the Department agrees, many data gaps related to interconnected surface water exist. The GSAs should continue filling data gaps, collecting additional monitoring data, and coordinating with resources agencies and interested parties to understand beneficial uses and users that may be impacted by depletions of interconnected surface water caused by groundwater pumping. Future periodic evaluations of the Plan and amendments to the Plan should aim to improve the initial sustainable management criteria as more information and improved methodology becomes available."

DWR South Basin GSP approval letter: "The Plan demonstrates an understanding of where data gaps exist and provides a description of measures to fill these data gaps. The GSP describes specific data gaps related to uncertainties in interconnected surface water locations and well information in its groundwater levels and quality monitoring networks. The Plan provides a management action to address these data gaps and commits to developing a plan, schedule, and budget for actions to address the data gaps by the first year of GSP implementation. (23 CCR § 355.4(b)(2).)

DWR corrective action from the Cosumnes GSP approval letter: GSAs "should consider addressing by the first periodic evaluation of the Plan" "Continuing to fill data gaps, collecting additional monitoring data, coordinating with resources agencies and interested parties to understand beneficial uses and users that may be impacted by depletions of interconnected surface water caused by groundwater pumping, and potentially refine sustainable management criteria."

As stated above, ISW and GDEs are of particular interest to ECOS, and areas of concern regarding them are often found along mutual subbasin boundaries. We understand that resource constraints are affecting GSA operations. However, while not all subbasins were



ECOS

ENVIRONMENTAL
♦ COUNCIL ♦
OF SACRAMENTO

Post Office Box 1526 | Sacramento, CA 95812-1526

fortunate enough to receive State grant funding, the obligation to close these gaps has not changed. We hope that more coordination and data sharing will enhance GSA abilities to make substantive progress in this critically important area.

GSA's are preparing their third annual reports, and the five-year plan updates are due in 2025. ECOS looks forward to an open, public process in the development and adoption of each subbasin's three year report as well as future annual reports and five year updates. We hope that these documents will fully disclose the North American, South American and Cosumnes subbasin plans and timing to address monitoring program shortcomings as well as shortcomings in understanding and protecting the region's GDEs and ISWs.

Thank you for your consideration of these suggestions and requests. ECOS appreciates all the work you are doing to implement SGMA for the benefit of the Sacramento area. We would appreciate your action to distribute this letter with our thanks to all of the GSA's involved in implementing the approved GSA's in our region. We would also appreciate hearing from you and the other GSA's regarding your efforts to address our concerns.

Ted Rauh
Chair, ECOS Water Committee

CC: Brittany Friedman, Board Secretary, info@CosumnesGroundwater.org

Topic: Board Directors' Comments
Type: New Business
Item For: Information
Purpose: Routine

SUBMITTED BY:	Jim Peifer Executive Director	PRESENTER:	Randy Marx Chair
---------------	----------------------------------	------------	---------------------

EXECUTIVE SUMMARY

This is an information item to provide an opportunity for the Sacramento Groundwater Authority Board of Directors to report on any updates from their agency, comments, request future agenda items, recommendations, and questions.

STAFF RECOMMENDED ACTION

None. This item is for information only.

BACKGROUND

This agenda item is a standing item to provide an opportunity to report on any updates from their agency, comments, request future agenda items, recommendations, and questions.