



SLOUGHHOUSE

Resource Conservation District

HERALD | SLOUGHHOUSE | WILTON

8698 Elk Grove Blvd. Ste. 1-207, Elk Grove, CA 95624
541.981.3459 - info@SloughhouseRCD.org

Regular Meeting of the Board Sloughhouse Resource Conservation District Agenda

When: Wednesday, December 9, 2020
Where: <https://us02web.zoom.us/j/86999928170>
Meeting ID: 869 9992 8170
Call in Number: +1-669-900-9128

Time: 1:00 pm – 4:00 pm

Public Comment- Any member of the public may address the Board concerning any matter on the agenda before or during its consideration of the matter. Public comment is limited to three minutes per person and no more than fifteen minutes per topic. For good cause, the Board Chairman may waive these limitations.

Agenda Item Time Frame- All agenda items times are suggested by staff developing the agenda and are an estimate.

- 1) Call to Order*
- 2) Public Comment: *Any member of the public may address the Board concerning any matter not on the Agenda within the Board's jurisdiction. Public comment is limited to three minutes per person and no more than fifteen minutes per topic. For good cause, the Board President may waive these limitations. (15 minutes)*
- 3) Oath of Office – Lindsey Liebig, Jay Schneider, Barbara Washburn (5 minutes)
- 4) Approval of Agenda and Minutes (11/11/20)* (5 minutes)
- 5) Approval of the Financial Report* (5 minutes)
- 6) Resolution Honoring Joseph A. Lopes* (5 minutes)
 - a) Resolution 2020.12.09.01*
- 7) Regular Reports
 - a) Staff Report (5 minutes)
 - b) NRCS Report (5 minutes)
 - c) Board Report (5 minutes)
- 8) SRCD Policies* (25 minutes)
 - a) Consultant Selection, amendments*



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- b) Board Officers*
 - i) Establish date for annual/biennial
 - ii) Voting process
- 9) South American Subbasin GSP Development Update (15 minutes)
 - a) Monitoring Network
- 10) Cosumnes Subbasin GSP Development* (60 minutes)
 - a) City of Galt Annexation and GSA Boundary Modification MOU*
 - b) Outreach Committee*
 - c) Long-Term Governance Committee
 - i) Potential Governance Options, request study and presentation from Counsel (Kronick)
 - d) Surface Water Advisory Group Update
 - e) Ad Hoc Committee Update
 - i) DRIP Project
 - f) Projects & Management Actions Committee*
 - g) Agricultural Advisory Group Update
- 11) Dept. of Water Resources, Facilitation Support Services* (10 minutes)
 - a) Accept Document from Stantec and Prepare for Formal Adoption*
- 12) SRCD Board Officer Elections* (25 minutes)
- 13) Consideration of Future Agenda Items* (5 minutes)
- 14) Adjourn Meeting

Notices:

1. The Board reserves the right to discuss or take action on all of the above agenda items.
2. Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by telephoning (541)981-3459, or writing austin@sloughhousercd.org or writing Sloughhouse Resource Conservation District at 8698 Elk Grove Blvd. Suite 1-207, Elk Grove, CA 95624. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the RCD to provide the requested accommodation.
3. Pursuant to Government Code section 54957.5, non-exempt public records that relate to open session agenda items and are distributed to a majority of the Board less than seventy-two (72) hours prior to the meeting will be available for public inspection at the meeting or via email as requested. To be placed on the District's public email distribution list, please notify RCD Secretary at: info@sloughhousercd.org

*Action Items

Prepared by: A. Miller

12/4/2020

Agenda Item #4



SLOUGHHOUSE
Resource Conservation District
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541.981.3459 - info@SloughhouseRCD.org

Meeting of the Board - MINUTES
Sloughhouse Resource Conservation District

When: Wednesday, November 11th, 2020

Where: via Zoom

Time: 1:00pm – 4:00pm

Board Members: Jay Schneider, Herb Garms, Gary Silva Jr., Barbara Washburn

Associate Board Members: Kathleen Beasley

Staff: Austin Miller, Holly Roberson (Counsel)

1. Call to Order*
Schneider called the meeting to order 1:03pm.
2. Public Comment: Any member of the public may address the Board concerning any matter not on the Agenda within the Board's jurisdiction. Public comment is limited to three minutes per person and no more than fifteen minutes per topic. For good cause, the Board President may waive these limitations.
None
3. Approval of Agenda and Minutes
Director Garms moved to approve the agenda and minutes as presented.
Director Washburn seconded the motion.
The motion passed with all in favor.
4. Approval of the Financial Report
Director Garms moved to approve the Financial Report as presented.
Director Washburn seconded the motion.
The motion passed with all in favor.
5. Appointment of Associate Director Candidates*
Director Washburn nominated Kathleen Beasley to serve as an Associate Director.
Director Garms seconded the motion.
The motion passed with all in favor.
6. Regular Reports
 - a) Staff provided an update on administrative efforts.
Director Garms moved to approve entering into an agreement with Mobius Intelligence Systems until June 2021 and to authorize Associate Director Beasley to work with Staff on developing a website improvement report.
Director Silva seconded the motion
The motion passed with all in favor.

*Action Items

Prepared by: A. Miller

10/15/2020

Agenda Item #4



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Resource Conservation District

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Director Washburn moved to apply for California Special District Association membership at a rate of \$500 for a two year period (ending December 31, 2022).

Director Silva seconded the motion.

The motion passed with all in favor.

- b) Toney Tillman provided a written update from the NRCS Field Office.
- c) None.

7. South American Subbasin GSP Development*

- a) General Update:

- b) Resolution 2020.11.11.01 – SRCD’s Intent for Rancho Murieta area*

Director Garms moved to table the resolution and confer with Rancho Murieta CSD.

Director Washburn seconded the motion.

The motion passed with all in favor.

- c) Development of Report for Rancho Murieta

Staff provided an update on their plans to develop a SGMA update for Rancho Murieta CSD.

8. Cosumnes Subbasin GSP Development

- a. City of Galt Annexation and GSA Boundary Modification MOU*

Director Silva moved to table the MOU and have Counsel review the document.

Director Garms seconded the motion.

The motion passed with all in favor.

- b. Outreach Committee

The Board discussed creating an updated SGMA factsheet and working with the other GSAs and consultants to promote the January public workshops.

- c. Governance Committee

The Long-Term Governance Committee members provided an update.

- d. Surface Water Advisory Group

The Surface Water Advisory Group members provided an update.

- e. Ad Hoc Committee

The Ad Hoc Committee members provided an update.

- f. Projects and Management Actions

Director Garms moved to form a Projects and Management Actions committee led by Director Washburn.

Director Washburn seconded the motion.

The motion passed with all in favor.

Director Garms moved to reject the proposed resolution and to form an Agricultural Advisory Committee with limited scope to be led by Director Schneider.

Director Washburn seconded the motion.

*Action Items

Prepared by: A. Miller

10/15/2020

Agenda Item #4



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The motion passed with Directors Silva, Washburn, and Garms in favor and Director Schneider opposed.

g. GSP Implementation, Consultant Proposals

The Board discussed potential options for professional consultants' role in GSP Implementation. The Board agreed it would be best to work collaboratively with the other GSAs before making any decisions.

9. Dept. of Water Resources, Facilitation Support Services Update
Staff provided and update on the facilitation efforts with Stantec.

10. Policies*
This item was table by Board consensus.

11. Fire Safe Councils
This item was tabled by Board consensus.

12. Consideration of Future Agenda Items
The Board approved the follow future agenda items by consensus:

- SRCD Policies
- Resolution honoring Joe Lopes
- Associate Director Brown Act Requirements

13. Adjourn Meeting
Schneider adjourned the meeting at 5:16 pm.

Financial Report

Date: December 4, 2020

New Bills (Expenditures):

Impress Fund Balance: \$500

Total Change in Account Balance	\$	(13,072.91)
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**BEFORE THE BOARD OF DIRECTORS OF THE SLOUGHHOUSE RESOURCE
CONSERVATION DISTRICT**

RESOLUTION No. 2020.12.09.01

**Resolution Honoring Joseph A. Lopes for his Service to Sloughhouse Resource
Conservation District**

WHEREAS, in June 2010; Joseph A. Lopes began his service as a Director of the Sloughhouse Resource Conservation District Board (RCD); and,

WHEREAS, Joseph A. Lopes is the third member of the Lopes family to serve (including his father Albert Lopes and grandfather Joseph T. Lopes) on the Sloughhouse RCD Board of Directors dating back to 1963; and,

WHEREAS, Joseph A. Lopes and his family has lived, worked, and farmed in the Wilton community for his entire life, building incredible relationships within the community; and,

WHEREAS, Joseph A. Lopes has and continues to work diligently to advocate for rural living, sustainable agriculture, and conserving Sacramento County's natural resources; and,

WHEREAS, Joseph A. Lopes served the Sloughhouse RCD with kindness and respect towards all and with a spirit that is generous and true.

NOW, THEREFORE, BE IT RESOLVED that the Sloughhouse Resource Conservation District hereby extends sincere appreciation to Joseph A. Lopes for his 10 years of service to the people of Sloughhouse RCD and further.

Votes were as follows:

AYES:

NOES:

ABSTAIN:

ABSENT:

I, the undersigned, hereby certify that I am the duly appointed and acting Secretary of the Sloughhouse Resources Conservation District, and that at a meeting of the Board of Directors of the District held on December 9, 2020 that Resolution 2020.12.09.1 was adopted and has not been rescinded or amended since the date of its adaptation and that it is now in full force and effect.

Austin Miller, SRCD Secretary

Date

Agenda Item #8a

SLOUGHHOUSE RESOURCE CONSERVATION DISTRICT Consultant Selection Policy

Amendments Presented December 2020
Originally Adopted October 14, 2020

The purpose of this policy is to affirm and update the Sloughhouse Resource Conservation District (SRCD or the District) Directors' and Staff's authority and procedural requirements for professional and consultant services agreements. Professional and consultant services shall be procured as economically as possible, commensurate with the quality needed to provide the best overall value to the District.

The District shall continue to comply with the requirements of the Public Resources Code division 9, chapter 3, article 9, sections 9401-9420 which sets forth the general powers of the Resource Conservation Districts, including the power of contract.

Whenever Staff or a Board Member becomes aware of a need or opportunity for a consultant or procurement, then this information should be made available for the Board to consider. If the estimated amount of the work is \$5,000 or less, the Board may prepare a task order and select the contractor of their choosing. If greater than \$5,000, a minimum of two, preferably three bids will be sought. The basis for selection of the contractor shall include but not be limited to suitability of services or product to meet district's needs, budgetary considerations, qualifications and consultant's qualifications and experience. Legal recommendations from Counsel may also be considered.

1. **Emergency Procurements:** In an emergency, defined as a situation where there is an immediate threat to life or property or where there is, or could be, a disruption of a vital public service; an emergency procurement may be approved verbally by the Chairman of the Board of Directors, after communicating with available directors; which emergency communication is believed to be authorized by the Brown Act. When an emergency purchase is made, the purchase order for the transaction shall be prepared and approved as soon as possible. For emergency procurement exceeding \$1,000, a full accounting of such emergency expenditures by Staff will be reported to the Board at the next regular board meeting. Any purchase orders shall include documentation certifying the emergency.
2. **Existing Contracts:** All existing contracts currently in place at the time of adoption of this policy, or any renewal of those contracts for similar term are not required to meet the requirements set forth in this policy.
3. **Conflict of Interest:** District employees with a fiscal relationship with a person or business entity seeking a contract with the District shall not participate in the selection process for that contract. (Cal. Gov. Code § 4527 (b))
4. **Sole Source Contracts:** In the event that a necessary service will cost over \$5,000 and only one consultant or consultancy has the unique experience or expertise to provide that service, the District may consider a sole source contract without requiring a minimum of two bids for the necessary service.¹ Such a contract must be approved by the Board in a resolution that details justification for the sole-source decision.

¹ Public entities such as the District need not comply with competitive bidding processes where to do so would be impractical or futile and would not serve the purposes of competitive bidding. (*Los Angeles Dredging Company v. City of Long Beach* (1930) 210 Cal. 348; *Graydon v. Pasadena Redevelopment Agency* (1980) 104 Cal.App.3d 63.)

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Agenda Item #8b

SLOUGHHOUSE RESOURCE CONSERVATION DISTRICT

Board Officers Policy

Draft December 4, 2020

(Amended from November 11, 2020 Draft)

The officers of the District shall be members of the Board. The officers shall include a Chair and Vice-Chair. The Chair, Vice-Chair, and additional officers, as may be designated by the Board, shall be elected by the Board at the ~~December~~ regular meeting ~~following the election or appointment of Directors to scheduled vacancies. In accordance with Public Resource Code Division 9, scheduled vacancies occur on the last Friday of November every other year (even numbered years). If incoming Directors have not qualified by the December meeting, election of officers shall take place at the first regular meeting following their qualification.~~

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~~During the officer election, nominations will be made one position at a time. Candidates can be nominated by themselves or by another Director. Once all nominations for a position are made the Board will vote for their candidate of choice. A Director must receive a majority of the Board's support to be elected to the office. If there are more than 2 candidates and none receive a majority of votes, then there will be a runoff vote between the 2 candidates who received the most votes.~~

Each officer elected shall serve a term of two years, provided, however, that an officer may resign at any time or be removed by majority vote of the other members of the Board then in office at any regular or special meeting of the Board. In the event of a resignation or removal of an officer, the Board shall elect a successor to serve for the remainder of that officer's unexpired term.

Chair

The Board shall elect one of its members to act as Chair and, if at any time the Chair shall be unable to act, the Vice-Chair shall assume the role and perform all duties of the Chair. The duties of the Chair include:

- a. Presiding over all meetings of the Board;
- b. Signing contracts, conveyances and other instruments in writing as the Board shall authorize or direct the Chair to sign;
- c. Being responsible for coordination and liaison with District legal counsel, auditors and other consultants who report directly to the Board, unless delegated to SRCD Staff;
- d. Designating members of the Board to undertake special responsibilities and to report to the Board on those activities;
- e. Representing the Board at official functions when necessary, serve as the spokesperson for the Board regarding Board actions, and keep the Board informed of such occasions; and
- f. Performing other duties as they pertain to the office, as prescribed by the Board.

Vice-Chair

In the absence or inability of the Chair to serve, the Vice-Chair shall perform the duties of the Chair and shall perform other duties pertaining to the office as are prescribed by the Board.

Additional Officers

Agenda Item #8b

The Board may create additional offices as the business of the District may require. The elected officer shall hold office for a specified period of time, have authority, and perform such duties as the Board determines from time to time. Additional offices may be filled either by members or non-members of the Board.

Agenda Item #10a

**MEMORANDUM OF UNDERSTANDING
BETWEEN
CITY OF GALT
AND
SLOUGHHOUSE RESOURCE CONSERVATION DISTRICT**

This Memorandum of Understanding (hereinafter referred to as "MOU") is made between the City of Galt (hereinafter referred to as "City") and Sloughhouse Resource Conservation District (hereinafter referred to as "SRCD"). This collaboration supports necessary boundary changes relative to groundwater sustainability for the Cosumnes Subbasin aquifer.

This document is a statement of understanding and is not intended to create binding or legal obligations. This collaboration supports non-material boundary changes relative to sustainable groundwater management for the Cosumnes Subbasin aquifer.

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I. Premise:

Both the City and SRCD are Groundwater Sustainability Agencies ("GSAs") that, in collaboration with five other GSAs, have agreed to work toward the common goal of developing a Groundwater Sustainability Plan ("GSP") for the Cosumnes Subbasin aquifer. As the City of Galt ("City") has completed or is in the process of completing annexations that expand the City limits, it is necessary to reflect these annexations relative to the GSA boundaries for purposes of completing and administering the Cosumnes Subbasin GSP.

II. Intent of Agreement

This MOU is to identify risk communication-related responsibilities of each of these entities. The City has the responsibility to advise other agencies affected by City annexations. SRCD acknowledges the annexation affecting SRCD's current GSA boundary, which is a different boundary than SRCD and the need to revise the boundaries of the SRCD GSA boundary for purposes relative to the Cosumnes Subbasin GSP.

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III. SRCD Commitment

SRCD will revise its GSA boundary to remove the portion annexed by the City (approximately 338 acres), which is reflected on the attached Exhibit A. As SRCD is relinquishing this portion as a non-material boundary change, it understands that it must initiate the process with and submit the boundary revision to the California Department of Water Resources ("DWR") per California Water Code ("CWC") Section 10723 et seq. SRCD will also support use of the planned final SRCD GSA and City GSA boundaries for purposes of the GSP development and analysis.

IV. City Commitment

After SRCD submits the proposed GSA boundary relinquishment to DWR, City will in turn submit its respective GSA boundary acquisition to DWR per CWC, Section 10723 et seq., as a non-material boundary change. The City will also support use of the planned final SRCD and City GSA boundaries for purposes of the Cosumnes Subbasin GSP development and analysis.

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Agenda Item #10a

V. Mutual Hold Harmless:

It is agreed that the City shall defend, save harmless, and indemnify SRCD, its officers, agents and employees, from any and all claims for injuries or damages to persons and/or property which arise out of the terms and conditions of this MOU and which result from the negligent acts or omissions of the City, its officers, agents and/or employees.

It is further agreed that SRCD shall defend, save harmless and indemnify the City, its officers, agents and employees, from any and all claims for injuries or damages to persons and/or property which arise out of the terms and conditions of this MOU and which result from the negligent acts or omissions of SRCD, its officers, agents and/or employees.

In the event of concurrent negligence of the City, its officers, agents, or employees and SRCD, its officers, agents or employees, then the liability for any and all claims for injuries or damages to persons and/or property which arise out of the terms and conditions of this MOU shall be apportioned under the California theory of comparative negligence as established presently, or as may be hereafter modified.

VI. Financial Implications

There are no financial provisions associated with this MOU. Each party acknowledges there will be inherent staff time and incidental costs necessary to process this boundary change [and that each party will pay its own costs related to this MOU](#).

VII. Pending Annexation

Final adjustment of SRCD's and City's GSA Boundaries will not take effect until the annexation process is finalized.

VIII. Adjustment of SRCD and City Service Areas

The City's annexation may require a change in SRCD's service area. While this MOU lays out the process that both parties will follow to adjust [the SRCD and City's GSA boundaries](#) within the Cosumnes Subbasin, both parties understand a separate process will be followed in compliance with [requirements of](#) the Sacramento Local Agency Formation Commission.

IX. Revision/Revocation of Understanding

This [MOU](#) may be modified or revoked with thirty days' written notice by either party; however, [unless so modified or revoked](#), the [MOU](#) will remain in effect until the [Cosumnes Subbasin GSP](#) is completed. [The parties further agree that if this MOU is revoked, the 338-acre boundary change shall remain within the City of Galt GSA in perpetuity.](#)

Deleted: Memorandum of Understanding

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Jay Schneider, Sloughhouse RCD Chairman

Date

City Representative Title, City of Galt

Date

**COSUMNES SUBBASIN
PROJECT / MANAGEMENT ACTION
INFORMATION FORM**

P/MA ID:	BASIN/MANAGEMENT AREA (if any):
TITLE: Following Plan	
DESCRIPTION¹: Fallow 2500 acres per year in order to achieve a net reduction in extraction of 6700 AFY.	
EXPECTED ANNUAL BENEFIT (demand reduction or supply augmentation, in acre-feet per year): 6700 AFY	
AGENCY(s): Primary/Lead: <u>administrative entity for the GSAs</u> Supporting: _____	
LOCATION: _____ <input type="checkbox"/> Check here if Basin-wide Township / Range: <u>various locations in Cosumes Basin</u> Coordinates (Latitude / Longitude): <u>n/a</u> Description: <u>Annually rotate fallowing to different farmlands on a 5 year cycle</u>	
AFFECTED SUSTAINABILITY INDICATOR (check all that apply): <input checked="" type="checkbox"/> Chronic Lowering of Groundwater Levels <input checked="" type="checkbox"/> Reduction of Groundwater Storage <input type="checkbox"/> Seawater Intrusion <input type="checkbox"/> Degraded Water Quality <input type="checkbox"/> Land Subsidence <input type="checkbox"/> Depletions of Interconnected Surface Water	
TYPE (check all that apply): <input type="checkbox"/> Water Supply Augmentation <input type="checkbox"/> Surface Water <input type="checkbox"/> Groundwater (Recharge) <input type="checkbox"/> Recycled Water <input type="checkbox"/> Transfer <input type="checkbox"/> Stormwater <input type="checkbox"/> Other Source of Outside Water (if applicable): _____ <input checked="" type="checkbox"/> Water Demand Reduction <input type="checkbox"/> Conservation <input checked="" type="checkbox"/> Land / Water Use Changes <input type="checkbox"/> Infrastructure / Capital Project <input checked="" type="checkbox"/> Policy Project <input type="checkbox"/> Data Gap Filling / Monitoring <input type="checkbox"/> Water Quality Improvement <input type="checkbox"/> Other: _____	

¹ Please continue to next page or attach additional pages to this form as necessary

Agenda Item #10f

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page 2 of 2

COSTS & FUNDING SOURCE(s):

Capital / Up-front (\$): none

Source(s): _____

O&M / On-going (\$ per year): \$1M / year; \$400/acre x 2500 acres

Source(s): Groundwater fee

REGULATORY / LEGAL AUTHORITY REQUIREMENTS (describe all that apply):

Permits (name of authority, type of permit): n/a

CEQA: yes, neg dec

Other: _____

SCHEDULE / TIMING:

Implementation Trigger(s): 2024 -

Termination Trigger(s): n/a

Timeframe to Accrue Expected Benefits: 2024

ADDITIONAL DETAILS (as necessary):

**COSUMNES SUBBASIN
PROJECT / MANAGEMENT ACTION
INFORMATION FORM**

P/MA ID:	BASIN/MANAGEMENT AREA (if any):																								
TITLE: Ground banking project: 2024-2027																									
DESCRIPTION¹: Sale of up to 4000 AFY to an urban water purveyor TBD for dry year augmentation.																									
EXPECTED ANNUAL BENEFIT (demand reduction or supply augmentation, in acre-feet per year): this is a financing mechanism																									
AGENCY(s): Primary/Lead: <u>administrative entity of the GSAs</u> Supporting: _____																									
LOCATION: _____ <input type="checkbox"/> Check here if Basin-wide Township / Range: <u>entire basin</u> Coordinates (Latitude / Longitude): _____ Description: _____																									
AFFECTED SUSTAINABILITY INDICATOR (check all that apply): <table border="0"><tr><td><input checked="" type="checkbox"/> Chronic Lowering of Groundwater Levels</td><td><input checked="" type="checkbox"/> Reduction of Groundwater Storage</td></tr><tr><td><input type="checkbox"/> Seawater Intrusion</td><td><input type="checkbox"/> Degraded Water Quality</td></tr><tr><td><input type="checkbox"/> Land Subsidence</td><td><input type="checkbox"/> Depletions of Interconnected Surface Water</td></tr></table>		<input checked="" type="checkbox"/> Chronic Lowering of Groundwater Levels	<input checked="" type="checkbox"/> Reduction of Groundwater Storage	<input type="checkbox"/> Seawater Intrusion	<input type="checkbox"/> Degraded Water Quality	<input type="checkbox"/> Land Subsidence	<input type="checkbox"/> Depletions of Interconnected Surface Water																		
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<input type="checkbox"/> Surface Water	<input type="checkbox"/> Stormwater	<input type="checkbox"/> Other																							
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<input type="checkbox"/> Other: <u>This is a funding mechanism that will indirectly address all sustainability indicators.</u>																									

¹ Please continue to next page or attach additional pages to this form as necessary

Agenda Item #10f

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page 2 of 2

COSTS & FUNDING SOURCE(s):

Capital / Up-front (\$): \$2.1 M total, \$700,000 for 3 years for pumping capacity of up to 12,000 AF in a dry year

Source(s): selected water purveyor

O&M / On-going (\$ per year): n/a

Source(s): _____

REGULATORY / LEGAL AUTHORITY REQUIREMENTS (describe all that apply):

Permits (name of authority, type of permit): unclear at this time

CEQA: yes, neg dec

Other: _____

SCHEDULE / TIMING:

Implementation Trigger(s): 2024

Termination Trigger(s): estimated to be 2027, when Sac River water is replaced by American River water

Timeframe to Accrue Expected Benefits: 2024-2027

ADDITIONAL DETAILS (as necessary):

This project could provide a net of \$900,000 per year for Cosumnes GSP capital and operations costs, including a reserve for administrative expensesw.

**COSUMNES SUBBASIN
PROJECT / MANAGEMENT ACTION
INFORMATION FORM**

P/MA ID:	BASIN/MANAGEMENT AREA (if any):
TITLE: FSC Ag Recharge from Sacramento River	
DESCRIPTION¹: During winter months (December - March) water will be taken from the Sacramento River at Freeport and diverted through the Freeport Canal and the FSC to flood agricultural land in the Cosumnes Basin. Number of acres to be flooded: 2000 Number of AF to be infiltrated: 4000 Anticipated location: in the vicinity of the Folsom South Canal, along Hadselville Creek/Twin Cities Road, and other locations to be identified.	
EXPECTED ANNUAL BENEFIT (demand reduction or supply augmentation, in acre-feet per year): <div style="font-size: 1.5em; font-weight: bold;">4000 AFY</div>	
AGENCY(s): Primary/Lead: <u>administrative entity of the Cosumnes WG</u> Supporting: _____	
LOCATION: <input type="checkbox"/> Check here if Basin-wide Township / Range: <u>entire basin</u> Coordinates (Latitude / Longitude): <u>approx. 38o 17' 43.53" N, -121o 11' 01.76"W</u> Description: _____	
AFFECTED SUSTAINABILITY INDICATOR (check all that apply): <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input checked="" type="checkbox"/> Chronic Lowering of Groundwater Levels <input type="checkbox"/> Seawater Intrusion <input type="checkbox"/> Land Subsidence </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> Reduction of Groundwater Storage <input type="checkbox"/> Degraded Water Quality <input type="checkbox"/> Depletions of Interconnected Surface Water </div> </div>	
TYPE (check all that apply): <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> Water Supply Augmentation <div style="margin-left: 20px;"> <input type="checkbox"/> Surface Water <input type="checkbox"/> Transfer </div> </div> <div style="width: 33%;"> <input type="checkbox"/> Groundwater (Recharge) <input type="checkbox"/> Stormwater </div> <div style="width: 33%;"> <input type="checkbox"/> Recycled Water <input type="checkbox"/> Other </div> </div> Source of Outside Water (if applicable): _____ <input checked="" type="checkbox"/> Water Demand Reduction <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Conservation <input type="checkbox"/> Infrastructure / Capital Project <input type="checkbox"/> Data Gap Filling / Monitoring <input type="checkbox"/> Other: _____ </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> Land / Water Use Changes <input checked="" type="checkbox"/> Policy Project <input type="checkbox"/> Water Quality Improvement </div> </div>	

¹ Please continue to next page or attach additional pages to this form as necessary

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COSTS & FUNDING SOURCE(s):

Capital / Up-front (\$): \$1 M

Source(s): Ground water banking credits

O&M / On-going (\$ per year): \$400,000 paid to farmers, \$270,000 water diversion/delivery

Source(s): Groundwater banking revenue and credits, source TBD

REGULATORY / LEGAL AUTHORITY REQUIREMENTS (describe all that apply):

Permits (name of authority, type of permit): Water Board temp permit for diversion

CEQA: yes

Other: Agreement of County and EBMUD (who control Freeport diversion, Freeport canal, and FSC

SCHEDULE / TIMING:

Implementation Trigger(s): 2024

Termination Trigger(s): 2027

Timeframe to Accrue Expected Benefits: 3 years

ADDITIONAL DETAILS (as necessary):

This project assumes that in 2027 Sacramento River winter water will be replaced by American River winter water, diverted to the FSC at Nimbus, as the source of the recharge.

**COSUMNES SUBBASIN
PROJECT / MANAGEMENT ACTION
INFORMATION FORM**

P/MA ID:	BASIN/MANAGEMENT AREA (if any):
TITLE: FSC Ag Recharge from American Recharge	
DESCRIPTION¹: During winter months (December - March) water will be diverted from the American River at the Nimbus Dam into the FSC to flood agricultural land in the Cosumnes Basin. Number of acres to be flooded: 2000 Number of AF to be infiltrated: 12000 Anticipated location: in the vicinity of the Folsom South Canal, along Hadselville Creek/Twin Cities Road, and other location to be identified.	
EXPECTED ANNUAL BENEFIT (demand reduction or supply augmentation, in acre-feet per year): <div style="font-size: 1.5em; font-weight: bold;">12,000 AFY</div>	
AGENCY(s): Primary/Lead: <u>Administrative entity for GSAs</u> Supporting: _____	
LOCATION: <input type="checkbox"/> Check here if Basin-wide Township / Range: <u>entire basin</u> Coordinates (Latitude / Longitude): <u>approx. 38o 17' 43.53" N, -121o 11' 01.76" W</u> Description: <u>In the vicinity of Twin Cities Road</u>	
AFFECTED SUSTAINABILITY INDICATOR (check all that apply): <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input checked="" type="checkbox"/> Chronic Lowering of Groundwater Levels <input type="checkbox"/> Seawater Intrusion <input type="checkbox"/> Land Subsidence </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> Reduction of Groundwater Storage <input type="checkbox"/> Degraded Water Quality <input type="checkbox"/> Depletions of Interconnected Surface Water </div> </div>	
TYPE (check all that apply): <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> Water Supply Augmentation <div style="margin-left: 20px;"> <input type="checkbox"/> Surface Water <input type="checkbox"/> Transfer </div> </div> <div style="width: 33%;"> <input type="checkbox"/> Groundwater (Recharge) <input type="checkbox"/> Stormwater </div> <div style="width: 33%;"> <input type="checkbox"/> Recycled Water <input type="checkbox"/> Other </div> </div> Source of Outside Water (if applicable): _____ <input checked="" type="checkbox"/> Water Demand Reduction <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Conservation <input type="checkbox"/> Infrastructure / Capital Project <input type="checkbox"/> Data Gap Filling / Monitoring <input type="checkbox"/> Other: <u>SAFCA Flood MAR anticipate regional acquisition of the Folsom South Canal.</u> </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> Land / Water Use Changes <input checked="" type="checkbox"/> Policy Project <input type="checkbox"/> Water Quality Improvement </div> </div>	

¹ Please continue to next page or attach additional pages to this form as necessary

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COSTS & FUNDING SOURCE(s):

Capital / Up-front (\$): unconfirmed at this time; could involve regional acquisition of the FSC

Source(s): State Water Board funds

O&M / On-going (\$ per year): \$400,000 paid to farmer; \$1.6M contribution to SAFCA Flood-MAR

Source(s): GW banking revenue

REGULATORY / LEGAL AUTHORITY REQUIREMENTS (describe all that apply):

Permits (name of authority, type of permit): unknown at this time

CEQA: Yes

Other: _____

SCHEDULE / TIMING:

Implementation Trigger(s): 2027 -

Termination Trigger(s): ongoing

Timeframe to Accrue Expected Benefits: 2027

ADDITIONAL DETAILS (as necessary):

This project will be part of the SAFCA Flood-MAR program which will require regional cooperation between Cosumnes and South American GSAs, Water Forum, and an agreement with the Bureau of Reclamation to provide American River winter water and a water control manual deviation approved by the Army Corps of Engineers to allow for temporary storage of winter water in the space dedicated for flood control at Folsom Dam.

**COSUMNES SUBBASIN
PROJECT / MANAGEMENT ACTION
INFORMATION FORM**

P/MA ID:	BASIN/MANAGEMENT AREA (if any):																								
TITLE: Folsom South Canal dry wells																									
DESCRIPTION¹: Install approximately 50 vadose zone infiltration wells along FSC between Cosumnes River to approximately 2 miles south of Dillard Road.																									
EXPECTED ANNUAL BENEFIT (demand reduction or supply augmentation, in acre-feet per year): 4000 AFY																									
AGENCY(s): Primary/Lead: <u>Administrative entity for GSAs</u> Supporting: _____																									
LOCATION: <input type="checkbox"/> Check here if Basin-wide Township / Range: <u>unknown</u> Coordinates (Latitude / Longitude): <u>In the vicinity of 38° 25' 11.23"; -121° 11' 01.76"</u> Description: <u>along the FSC</u>																									
AFFECTED SUSTAINABILITY INDICATOR (check all that apply): <table border="0"><tr><td><input checked="" type="checkbox"/> Chronic Lowering of Groundwater Levels</td><td><input checked="" type="checkbox"/> Reduction of Groundwater Storage</td></tr><tr><td><input type="checkbox"/> Seawater Intrusion</td><td><input type="checkbox"/> Degraded Water Quality</td></tr><tr><td><input type="checkbox"/> Land Subsidence</td><td><input type="checkbox"/> Depletions of Interconnected Surface Water</td></tr></table>		<input checked="" type="checkbox"/> Chronic Lowering of Groundwater Levels	<input checked="" type="checkbox"/> Reduction of Groundwater Storage	<input type="checkbox"/> Seawater Intrusion	<input type="checkbox"/> Degraded Water Quality	<input type="checkbox"/> Land Subsidence	<input type="checkbox"/> Depletions of Interconnected Surface Water																		
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<input type="checkbox"/> Data Gap Filling / Monitoring																									
<input type="checkbox"/> Other: _____																									

¹ Please continue to next page or attach additional pages to this form as necessary

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COSTS & FUNDING SOURCE(s):

Capital / Up-front (\$): \$7.5 M: 75% state; 25% local

Source(s): State bond money and GW banking revenue

O&M / On-going (\$ per year): \$50,000

Source(s): GW banking revenue

REGULATORY / LEGAL AUTHORITY REQUIREMENTS (describe all that apply):

Permits (name of authority, type of permit): Agreement with Bureau of Reclamation

CEQA: Yes, neg dec

Other: _____

SCHEDULE / TIMING:

Implementation Trigger(s): 2027 - 2042

Termination Trigger(s): none

Timeframe to Accrue Expected Benefits: 2027

ADDITIONAL DETAILS (as necessary):

This project will be part of the SAFCA Flood-MAR program which will require regional cooperation between Cosumnes and South American GSAs, Water Forum, and an agreement with the Bureau of Reclamation to provide American River winter water and a water control manual deviation approved by the Army Corps of Engineers to allow for temporary storage of winter water in the space dedicated for flood control at Folsom Dam.

**COSUMNES SUBBASIN
PROJECT / MANAGEMENT ACTION
INFORMATION FORM**

P/MA ID:	BASIN/MANAGEMENT AREA (if any):
TITLE: Evaluate opportunities for construction of stock/infiltration ponds	
DESCRIPTION¹: Conduct a pilot study to determine the feasibility of developing new ponds or repurposing existing stock ponds located throughout the basin to infiltrate stormwater. Construct a series of new ponds and assess the infiltration benefits that could be gained.	
EXPECTED ANNUAL BENEFIT (demand reduction or supply augmentation, in acre-feet per year): <div style="font-size: 1.2em;">unknown at this time</div>	
AGENCY(s): Primary/Lead: <u>Administrative entity of the GSAs</u> Supporting: _____	
LOCATION: <input type="checkbox"/> Check here if Basin-wide Township / Range: <u>entire basin</u> Coordinates (Latitude / Longitude): _____ Description: _____	
AFFECTED SUSTAINABILITY INDICATOR (check all that apply): <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input checked="" type="checkbox"/> Chronic Lowering of Groundwater Levels <input type="checkbox"/> Seawater Intrusion <input type="checkbox"/> Land Subsidence </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> Reduction of Groundwater Storage <input type="checkbox"/> Degraded Water Quality <input type="checkbox"/> Depletions of Interconnected Surface Water </div> </div>	
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¹ Please continue to next page or attach additional pages to this form as necessary

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COSTS & FUNDING SOURCE(s):

Capital / Up-front (\$): \$200,000

Source(s): Grant funding, state of California

O&M / On-going (\$ per year): to be determined

Source(s): _____

REGULATORY / LEGAL AUTHORITY REQUIREMENTS (describe all that apply):

Permits (name of authority, type of permit): _____

CEQA: _____

Other: _____

SCHEDULE / TIMING:

Implementation Trigger(s): 2024

Termination Trigger(s): none, ongoing

Timeframe to Accrue Expected Benefits: _____

ADDITIONAL DETAILS (as necessary):

This is a pilot project that will determine the feasibility of constructing a system of ponds that would capture rain for aquifer recharge

PMA's Suggested But Not Yet Incorporated

OH Cosumnes River Groundwater Recharge Project

This project is just getting underway on land along the north side of the Cosumnes River in the South American Basin. OH has upgraded its capacity to divert winter water (November 1 through March 15) from the Cosumnes River when it is available onto about 1,200 acres of land farmed as vineyards. OH estimates that of the total amount of water diverted each year, as much as 2,000 AF per year could find its way into the aquifer below the Cosumnes Basin.

This augmentation of aquifer storage would be an indirect effect of the recharge program and OH has yet to develop a commonly accepted tool for measuring this effect. As a result, rather than add 2,000 AF to the proposed water budget, it might make more sense to use this storage value to reduce the annual shift in GW storage from the Cosumnes Basin to the South American Basin which the EKI's model indicates is occurring at a rate of 9,800 AF per year under the 'with climate change' version of the model.

Accordingly, during the period 2027 to 2042, the conceptual deficit reduction plan substantially reduces the volume of GW being lost from the Cosumnes Basin to the South American Basin. This adjustment would reflect the effects of the OH recharge project which is assumed to grow from 2,000 AF per year to about 20,000 AF per year once winter water from the American River delivered to the recharge area via the Folsom South Canal becomes available in 2027. This adjustment would also reflect the impact of Sacramento Regional Sanitation's project to use 50,000 AF per year of recycled water to reduce GW pumping just to the north of the Cosumnes River west of the State Route 99. Finally, this adjustment would reflect the expected coordination of the South American and Cosumnes Basin GSP's and the establishment of a regional GW bank that will help to stabilize cross border flows between the two basins.

Net Metering

This concept has been suggested by SRCD as a demand management tool in situations in which farmers who pump GW also have access to surface water from the Cosumnes River when it is available. In order to incentivize these landowners to use surface water, net metering assumes that the farmer would be credited for every AF of surface water that is substituted for GW at a rate of 1:1. These credits could then be used to reduce the farmer's annual per AF fee paid to the GSP administering authority.

For example, assume a farmer typically pumps 350 AF of GW onto a 100 acre farm at a rate of 3.5 AF per acre. In year's when surface water is available, the farmer pumps 100 AF surface water and 250 AF of GW. The farmer would be obligated to pay the annual charge for the 250 AF of GW pumped but would also receive a 100 AF credit for leaving 100AF in the ground. This credit could be used to reduce the annual charge to 150 AF.

Net metering is a potentially useful approach to dealing with farmers who have access to both surface and GW. It has not been incorporated into the conceptual deficit reduction plan because we do not have enough information on the farmers who might be in a position to take advantage of this measure.

Ponds and Recharge Basins

SRCD is also suggesting that the deficit reduction plan could take advantage of surface water ponds (existing or created) and recharge basins to capture winter water from Deer Creek and/or the Cosumnes in the SoAm basin and from the American River delivered down the FSC. Water delivered to surface ponds could be used in lieu of GW pumping as a demand management tool. Water delivered to recharge basins could be infiltrated into the ground to increase the supply of GW.

This concept has not been incorporated into the deficit reduction plan pending further evaluation of the opportunities for connecting the FSC to existing or created ponds and recharge basins.