

# SOLANO COUNTY WATER AGENCY



## BOARD OF DIRECTORS MEETING

### BOARD OF DIRECTORS:

**Chair:**  
Supervisor Erin Hannigan  
Solano County District 1

**Vice Chair:**  
Mayor Pete Sanchez  
City of Suisun City

Mayor Len Augustine  
City of Vacaville

Mayor Thom Bogue  
City of Dixon

Supervisor Monica Brown  
Solano County District 2

Director Dale Crossley  
Reclamation District No. 2068

Director John D. Kluge  
Solano Irrigation District

Director Ryan Mahoney  
Maine Prairie Water District

Mayor Elizabeth Patterson  
City of Benicia

Mayor Harry Price  
City of Fairfield

Mayor Norm Richardson  
City of Rio Vista

Mayor Bob Sampayan  
City of Vallejo

Supervisor Jim Spering  
Solano County District 3

Supervisor Skip Thomson  
Solano County District 5

Supervisor John Vasquez  
Solano County District 4

### GENERAL MANAGER:

Roland Sanford  
Solano County Water Agency

**DATE:** Thursday, March 9, 2017

**TIME:** 6:30 P.M.

**PLACE:** Berryessa Room  
Solano County Water Agency Office  
810 Vaca Valley Parkway, Suite 203  
Vacaville

1. **CALL TO ORDER**

2. **PLEDGE OF ALLEGIANCE**

3. **APPROVAL OF AGENDA**

4. **PUBLIC COMMENT**

Limited to 5 minutes for any one item not scheduled on the Agenda.

5. **CONSENT ITEMS**

(A) Minutes: Approval of the Minutes of the Board of Directors meeting of February 9, 2017 is recommended.

(B) Expenditure Approvals: Approval of the February 2017 checking account register is recommended.

(C) Putah South Canal Suction Dredge Cleaning Pilot Project: Adopt plans and specifications for Putah South Canal Suction Dredge Cleaning Pilot Project, authorize staff to solicit bids and authorize General Manager to execute agreement with lowest responsible bidder for Putah South Canal Suction Dredge Pilot Project, authorize General Manager to approve change orders with a cumulative total not to exceed 20 percent of the awarded bid price.

(D) Craig Thomsen Contract Amendment for Winters Putah Creek Nature Park Project: Authorize General Manager to execute contract amendment for additional work tasks, increasing total contract amount by \$20,000, from \$20,000 to \$40,000.



6. **BOARD MEMBER REPORTS** *(estimated time: 5 minutes)*

RECOMMENDATION: For information only

7. **GENERAL MANAGER'S REPORT** *(estimated time: 5 minutes)*

RECOMMENDATION: For information only.

8. **REVIEW OF FLOOD MANAGEMENT ACTIVITIES AND SERVICES PROVIDED BY WATER AGENCY** *(estimated time: 45 minutes)*

RECOMMENDATION: Hear report and discuss process for defining Water Agency's future role in flood management.

9. **AUTHORIZATION FOR WATER AGENCY TO PROVIDE ADMINISTRATIVE AND TECHNICAL SERVICES ON BEHALF OF PROPOSED GROUNDWATER SUSTAINABILITY AGENCY (GSA) FOR SOLANO SUB-BASIN** *(estimated time: 15 minutes)*

RECOMMENDATION: Authorize Water Agency staff to provide administrative and technical services on behalf of proposed groundwater sustainability agency (GSA) for Solano Sub-basin, upon agreement with GSA on scope of said services.

10. **WATER POLICY UPDATES** *(estimated time: 15 minutes)*

RECOMMENDATIONS:

1. Hear report from staff on current and emerging Delta and Water Policy issues and provide direction.
2. Hear status report from Committee Chair on activities of the SCWA Water Policy Committee **(No report, February 23, 2017 meeting cancelled)**.
3. Hear report from Supervisor Thomson on activities of the Delta Counties Coalition and Delta Protection Commission.
4. Hear report from Legislative Committee.

11. **TIME AND PLACE OF NEXT MEETING**

Thursday, April 13, 2017 at 6:30 p.m. at the SCWA offices.

***The Full Board of Directors packet with background materials for each agenda item can be viewed on the Agency's website at [www.scwa2.com](http://www.scwa2.com).***

# CONSENT ITEMS

**SOLANO COUNTY WATER AGENCY  
BOARD OF DIRECTORS MEETING MINUTES**

**MEETING DATE: February 9, 2017**

The Solano County Water Agency Board of Directors met this evening at the Solano County Water Agency. Present were:

Supervisor Erin Hannigan, Solano County District 1  
Supervisor James Spering, Solano County District 3  
Supervisor John Vasquez, Solano County District 4  
Supervisor Skip Thomson, Solano County District 5  
Mayor Thom Bogue, City of Dixon  
Mayor Elizabeth Patterson, City of Benicia  
Mayor Harry Price, City of Fairfield  
Mayor Len Augustine, City of Vacaville  
Mayor Pete Sanchez, City of Suisun City  
Mayor Bob Sampayan, City of Vallejo  
Mayor Norman Richardson, City of Rio Vista  
Director Dale Crossley, Reclamation District 2068  
Director John Kluge, Solano Irrigation District  
Director Ryan Mahoney, Maine Prairie Water District

**CALL TO ORDER**

The meeting was called to order at 6:30 P.M. by Chair Sanchez.

**APPROVAL OF AGENDA**

On a motion by Supervisor Vasquez and a second by Mayor Price the Board unanimously approved the agenda.

**PUBLIC COMMENT**

There were no public comments.

**CONSENT ITEMS**

On a motion by Supervisor Spering and a second by Director Crossley the Board unanimously approved the consent items:

- (A) Minutes
- (B) Expenditure Approvals
- (C) Lower Putah Creek Coordinating Committee Appointments
- (D) SCWA Fiscal Year 2015-2016 Audit
- (E) Authorize purchase of herbicides on behalf of LPCCC

**BOARD MEMBER REPORTS**

Mayor Patterson reported on the recent damage to the Lake Oroville spillway.

**GENERAL MANAGER'S REPORT**

General Manager Roland Sanford stated that to date Lake Berryessa had received approximately 675,000 acre-feet of inflow and would, if current weather trends continue, spill this year. He noted that there is currently about 190,000 acre-feet of carryover water in storage at Lake Berryessa and that the carryover water would be lost on a "one-for-one" basis, for every acre-foot of water that spills.

Mr. Sanford reported that the North Bay Aqueduct water supply situation continues to improve and that the Department of Water Resources has increased the 2017 allocations to 85 percent of the full Table A contractual amounts. He noted that there is approximately 30,000 acre-feet of NBA carryover water in storage at San Luis reservoir, which would be lost if San Luis reservoir spills.



**STATUS REPORT: FORMATION OF GROUNDWATER SUSTAINABILITY AGENCY(S) FOR  
SOLANO SUB-BASIN PURSUANT TO SUSTAINABLE GROUNDWATER MANAGEMENT ACT**

Water Agency Principal Water Resources Specialist Chris Lee and Brooking Gatewood of Ag Innovations briefed the Board on the progress made to date toward formation of one or more Groundwater Sustainability Agencies (GSA) for the Solano Sub-basin. They reported that a collection of 16 agencies/entities is proposing a single GSA for the Solano Sub-basin, but that the Solano Irrigation District may elect to form their own GSA that would encompass the District lands located in the Solano Sub-basin, and that a coalition of reclamation districts located near the Sacramento River may also elect to form their own GSA for those district lands located within the Solano Sub-basin.

**WATER AGENCY STAFFING – ADDITION OF ASSISTANT WATER RESOURCES  
SPECIALIST POSITION**

On a motion by Mayor Price and a second by Mayor Patterson the Board unanimously approved the addition of an Assistant Water Resources Specialist position and authorized the General Manager to recruit and fill said position.

**WATER POLICY UPDATES**

1. There was no report from staff on current and emerging Delta and Water Policy issues.
2. There was no report on activities of the SCWA Water Policy Committee.
3. There was no report on activities from the Delta County Coalition.
4. There was no report on activities from the Legislative Committee.

**TIME AND PLACE OF NEXT MEETING**

Thursday, March 9, 2017 at 6:30 p.m. at the SCWA offices.

**ADJOURNMENT**

This meeting of the Solano County Water Agency Board of Directors was adjourned at 6:50 p.m.

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Roland Sanford  
General Manager & Secretary to the  
Solano County Water Agency

**ACTION OF  
SOLANO COUNTY WATER AGENCY**

**DATE:** March 9, 2017  
**SUBJECT:** Expenditures Approval

**RECOMMENDATIONS:**

Approve expenditures from the Water Agency checking accounts for the month of February 2017.

**FINANCIAL IMPACT:**

All expenditures are within previously approved budget amounts.

**BACKGROUND:**

The Water Agency auditor has recommended that the Board of Directors approve all expenditures (in arrears). Attached is a summary of expenditures from the Water Agency's checking accounts for the month of February, 2017. Additional backup information is available upon request.

Recommended:   
Roland Sanford, General Manager

☐

Approved as  
recommended

☐

Other  
(see below)

☐

Continued on  
next page

Modification to Recommendation and/or other actions:

I, Roland Sanford, General Manager and Secretary to the Solano County Water Agency, do hereby certify that the foregoing action was regularly introduced, passed, and adopted by said Board of Directors at a regular meeting thereof held on March 9, 2017 by the following vote.

Ayes:

Noes:

Abstain:

Absent:

\_\_\_\_\_  
Roland Sanford  
General Manager & Secretary to the  
Solano County Water Agency

**SOLANO COUNTY WATER AGENCY**  
**Cash Disbursements Journal**  
For the Period From Feb 1, 2017 to Feb 28, 2017

Filter Criteria includes: Report order is by Check Number. Report is printed in Detail Format.

Date	Check #	Account ID	Line Description	Debit Amount	Credit Amount
2/7/17	29468V	2020SC 1020SC	Invoice: 1098607 COMPONENT HARDWARE GROUP	986.90	986.90
2/2/17	29616	2020SC 1020SC	Invoice: GEORGE RESTIVAN 1 TURF REBATE PROGRAM	491.00	491.00
2/2/17	29617	2020SC 2020SC 2020SC 2020SC 1020SC	Invoice: 000009012901 Invoice: 000009012856 Invoice: 000009130779 Invoice: 000009130824 CALNET3	161.88 244.95 247.99 164.24	819.06
2/2/17	29618	2020SC 2020SC 1020SC	Invoice: 75981 Invoice: 75992 GHD, INC.	2,066.50 170.00	2,236.50
2/2/17	29619	2020SC 1020SC	Invoice: 1194 ROCK STEADY JUGGLING	2,250.00	2,250.00
2/2/17	29620	2020SC 1020SC	Invoice: SHARP BUYOUT SBS LEASING A PROGRAM DE LAGE	12,354.29	12,354.29
2/2/17	29621	2020SC 1020SC	Invoice: 2 - 2017 SOLANO RESOURCE CONSERVATION DISTRICT	10,457.05	10,457.05
2/2/17	29622	2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 1020SC	Invoice: 1717525151 Invoice: 1721154981 Invoice: 1721155361 Invoice: 1728567161 Invoice: 1729310711 Invoice: 1731515461 Invoice: LATE FEE 1.10.17 Invoice: 1734241671 Invoice: 80069 Invoice: 1735379891 Invoice: 1736472971 Invoice: FIN CHARGE 1.16.17 STAPLES	98.34 422.75 370.97 36.15 51.96 370.14 39.00 134.69 69.15 74.19 25.87 52.23	1,745.44
2/7/17	29623	2020SC 1020SC	Invoice: 47630313 ACCONTEMPES	193.09	193.09
2/7/17	29624	2020SC 1020SC	Invoice: 2347497 AMERICAN TOWER CORPORATION	556.02	556.02
2/7/17	29625	2020SC 1020SC	Invoice: A703083 BSK ASSOCIATES	2,040.00	2,040.00
2/7/17	29626	2020N 1020SC	Invoice: FEB 2017 CLEAN TECH ADVOCATES	8,600.00	8,600.00
2/7/17	29627	2020SC 1020SC	Invoice: 140650 DEPT OF FORESTRY & FIRE PROTECTION	1,143.10	1,143.10
2/7/17	29628	2020SC 1020SC	Invoice: 4230526 EVERBANK COMMERCIAL FINANCE	1,244.60	1,244.60
2/7/17	29629	2020SC 1020SC	Invoice: 180 GATES CONSULTING SERVICES	1,004.60	1,004.60
2/7/17	29630	2020SC 1020SC	Invoice: 12-(16) DENNIS GRUNSTAD	880.00	880.00

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2/7/17	29631	2020SC	Invoice: 4022527	36.40	
		2020SC	Invoice: 4022530	338.46	
		2020SC	Invoice: 4022529	98.48	
		2020SC	Invoice: 4022528	30.08	
		2020SC	Invoice: 9022976	193.63	
		2020SC	Invoice: 9220350		106.80
		2020SC	Invoice: 3023537	491.80	
		2020SC	Invoice: 5010382	152.73	
		2020SC	Invoice: FCH-006206021	20.00	
		1020SC	HOME DEPOT CREDIT SERVICE		1,254.78
2/7/17	29632	2020N	Invoice: 0217-1	750.00	
		1020SC	JEFFREY J JANIK		750.00
2/7/17	29633	2020SC	Invoice: FEB 2017 EXEC MTG	100.00	
		1020SC	JOHN D. KLUGE		100.00
2/7/17	29634	2020SC	Invoice: JAN.2017	1,117.50	
		1020SC	LISTEN-INK		1,117.50
2/7/17	29635	2020SC	Invoice: FEB 2017 EXEC MTG	100.00	
		1020SC	RYAN MAHONEY		100.00
2/7/17	29636	2020SC	Invoice: 184069	25,616.06	
		2020SC	Invoice: 184069-1	2,996.46	
		1020SC	PAPE MACHINERY		28,612.52
2/7/17	29637	2020SC	Invoice: 002513660	22.44	
		1020SC	QUILL CORPORATION		22.44
2/7/17	29638	2020SC	Invoice: 00966523	59.90	
		1020SC	RECOLOGY HAY ROAD		59.90
2/7/17	29639	2020SC	Invoice: C933111-541	1,728.73	
		1020SC	SHARP ELECTRONICS CORPRATION		1,728.73
2/8/17	29639V	2020SC	Invoice: C933111-541		1,728.73
		1020SC	SHARP ELECTRONICS CORPRATION	1,728.73	
2/7/17	29640	2020SC	Invoice: 181469	668.89	
		1020SC	SHELDON		668.89
2/7/17	29641	2020U	Invoice: JAN 2017	1,787.52	
		1020SC	SOLANO COUNTY FLEET MANAGEMENT		1,787.52
2/7/17	29642	2020SC	Invoice: 48005	10.15	
		2020SC	Invoice: 48003	49.55	
		2020SC	Invoice: 48002	46.89	
		2020SC	Invoice: 48023	101.93	
		2020SC	Invoice: 48022		20.86
		2020SC	Invoice: 48050	1.45	
		2020SC	Invoice: 48207	11.29	
		1020SC	SUISUN VALLEY FRUIT GROWERS AS		200.40
2/7/17	29643	2020SC	Invoice: 20902-39	46,210.23	
		2020SC	Invoice: 20961-21	301.41	
		1020SC	THE REGENTS OF THE UNIVERSITY OF CA		46,511.64
2/7/17	29644	2020SC	Invoice: 300241102	61.30	
		2020SC	Invoice: 300241945	60.21	
		1020SC	TRACTOR SUPPLY CREDIT PLAN		121.51
2/10/17	29645	2020SC	Invoice: A703457	210.00	
		1020SC	BSK ASSOCIATES		210.00

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2/10/17	29646	2020SC 1020SC	Invoice: 49606726 CHEVRON AND TEXACO	226.94	226.94
2/10/17	29647	2020SC 1020SC	Invoice: FEB 2017 BOARD MTG DALE CROSSLEY	100.00	100.00
2/10/17	29648	2020SC 1020SC	Invoice: SI348754 DLT SOLUTIONS, LLC	1,950.06	1,950.06
2/15/17	29648V	2020SC 1020SC	Invoice: SI348754 DLT SOLUTIONS, LLC	1,950.06	1,950.06
2/10/17	29649	2020SC 1020SC	Invoice: 4110 EYASCO, INC.	23,284.79	23,284.79
2/10/17	29650	2020SC 1020SC	Invoice: 561892 GFS CHEMICALS, INC.	1,291.99	1,291.99
2/10/17	29651	2020SC 1020SC	Invoice: FEB 2017 BOARD MTG JOHN D. KLUGE	100.00	100.00
2/10/17	29652	2020SC 1020SC	Invoice: 32551 LUHDORFF & SCALMANINI	5,833.75	5,833.75
2/10/17	29653	2020SC 1020SC	Invoice: FEB 2017 BOARD MTG RYAN MAHONEY	100.00	100.00
2/10/17	29654	2020SC 1020SC	Invoice: 139609 MARTIN'S METAL FABRICATION &	857.23	857.23
2/10/17	29655	2020SC 1020SC	Invoice: FEB 2017 BOARD MTG ELIZABETH PATTERSON	132.64	132.64
2/10/17	29656	2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 1020SC	Invoice: 739759 Invoice: 740159 Invoice: 741301 Invoice: 741761 Invoice: 741739 Invoice: 741767 Invoice: 741885 Invoice: 741871 Invoice: 741930 Invoice: 742055 PISANIS AUTO PARTS	71.75 37.23 14.78 177.58 14.25 152.73 13.49 26.98 53.55 77.83	640.17
2/10/17	29657	2020SC 1020SC	Invoice: FEB 2017 BOARD MTG BOB SAMPAYAN	132.10	132.10
2/10/17	29658	2020SC 1020SC	Invoice: 0131170229 SHANDAM CONSULTING	1,485.00	1,485.00
2/10/17	29659	2020SC 2020SC 1020SC	Invoice: 0005204 Invoice: 0005202 SOLANO IRRIGATION DISTRICT	144.15 6,659.01	6,803.16
2/10/17	29660	2020SC 2020SC 2020SC 1020SC	Invoice: 34503 Invoice: 34502 Invoice: 34504 SOUTHWEST ENVIRONMENTAL	12,590.00 114,826.50 18,210.00	145,626.50
2/10/17	29661	2020SC	Invoice: FEB 2017 BOARD MTG	100.00	



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		1020SC	JAMES SPERING		100.00
2/10/17	29662	2020SC	Invoice: 631302	1,255.80	
		2020SC	Invoice: 631480	2,419.86	
		2020SC	Invoice: 631657	1,620.13	
		2020SC	Invoice: 631860	1,251.99	
		1020SC	SYAR INDUSTRIES, INC		6,547.78
2/10/17	29663	2020SC	Invoice: 7434	100.63	
		1020SC	VACAVILLE TRAILER SALES		100.63
2/10/17	29664	2020SC	Invoice: FEB 2017 BOARD MTG	100.00	
		1020SC	JOHN VASQUEZ		100.00
2/10/17	29665	2020SC	Invoice: 9779412522	2,467.44	
		1020SC	VERIZON WIRELESS		2,467.44
2/10/17	29666	2020SC	Invoice: 290965	83.32	
		2020SC	Invoice: 290963	155.07	
		1020SC	SUISUN VALLEY FRUIT GROWERS AS		238.39
2/15/17	29667	2020SC	Invoice: 185324	180.00	
		1020SC	A & L WESTERN AGRICULTURAL LABS		180.00
2/15/17	29668	2020SC	Invoice: 47694511	467.43	
		1020SC	ACCOUNTEMP		467.43
2/15/17	29669	2020SC	Invoice: 0463890	1,331.19	
		1020SC	ACWA JOINT POWERS INSURANCE AUTHORITY		1,331.19
2/15/17	29670	2020SC	Invoice: 5007224566	137.74	
		1020SC	CINTAS CORPORATION		137.74
2/15/17	29671	2020SC	Invoice: SI348754	1,950.06	
		1020SC	DLT SOLUTIONS, LLC		1,950.06
2/15/17	29671V	2020SC	Invoice: SI348754		1,950.06
		1020SC	DLT SOLUTIONS, LLC	1,950.06	
2/15/17	29672	2020SC	Invoice: B50067.01-07	28,743.04	
		1020SC	ERLER & KALINOWSKI		28,743.04
2/15/17	29673	2020SC	Invoice: 77148	3,474.00	
		1020SC	GHD, INC.		3,474.00
2/15/17	29674	2020SC	Invoice: 02092017	255.80	
		1020SC	J. RICHARD EICHMAN, CPA		255.80
2/15/17	29675	2020SC	Invoice: 3405	4,778.38	
		1020SC	KONA LABS		4,778.38
2/15/17	29676	2020SC	Invoice: 498333	144.00	
		1020SC	M&M SANITARY LLC		144.00
2/15/17	29677	2020SC	Invoice: 63851	3,030.00	
		1020SC	NORMANDEAU ASSOCIATES, INC.		3,030.00
2/15/17	29678	2020SC	Invoice: 40688327	239.18	
		1020SC	RECOLOGY VACAVILLE SOLANO		239.18
2/15/17	29679	2020SC	Invoice: 0005217	159,961.66	
		1020SC	SOLANO IRRIGATION DISTRICT		159,961.66

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2/15/17	29680	2020SC 1020SC	Invoice: KELSEY BANNER KELSEY BANNER	1,000.00	1,000.00
2/15/17	29681	2020SC 1020SC	Invoice: LOUIS CHIOFALO LOUIS CHIOFALO	560.00	560.00
2/15/17	29682	2020SC 1020SC	Invoice: ADAM CLARKE ADAM CLARKE	971.00	971.00
2/15/17	29683	2020SC 1020SC	Invoice: DAVID FONG DAVID FONG	1,273.50	1,273.50
2/15/17	29684	2020SC 1020SC	Invoice: REBECCA LYON REBECCA LYON	760.00	760.00
2/15/17	29685	2020SC 1020SC	Invoice: ANTHONY POSADAS ANTHONY POSADAS	744.00	744.00
2/15/17	29686	2020SC 1020SC	Invoice: MARIZZI PULMANO MARIZZI PULMANO	913.00	913.00
2/15/17	29687	2020SC 1020SC	Invoice: ANTHONY SIMANOWITZ ANTHONY SIMANOWITZ	622.00	622.00
2/15/17	29688	2020SC 1020SC	Invoice: JAYNEE TAKATO JAYNEE TAKATO	1,000.00	1,000.00
2/15/17	29689	2020SC 1020SC	Invoice: 34266 VISION TECHNOLOGY SOLUTIONS, LLC DBC	200.00	200.00
2/15/17	29689V	2020SC 1020SC	Invoice: 34266 VISION TECHNOLOGY SOLUTIONS, LLC DBC	200.00	200.00
2/15/17	29690	2020SC 1020SC	Invoice: 4573 WESTERN HYDROLOGIC SYSTEMS DBA	2,986.40	2,986.40
2/15/17	29690V	2020SC 1020SC	Invoice: 4573 WESTERN HYDROLOGIC SYSTEMS DBA	2,986.40	2,986.40
2/15/17	29691	2020SC 1020SC	Invoice: SI348754 DLT SOLUTIONS, LLC	1,950.06	1,950.06
2/15/17	29691V	2020SC 1020SC	Invoice: SI348754 DLT SOLUTIONS, LLC	1,950.06	1,950.06
2/15/17	29692	2020SC 1020SC	Invoice: 34266 VISION TECHNOLOGY SOLUTIONS, LLC DBC	200.00	200.00
2/15/17	29693	2020SC 1020SC	Invoice: 4573 WESTERN HYDROLOGIC SYSTEMS DBA	2,986.40	2,986.40
2/16/17	29694	2020SC 1020SC	Invoice: A704105 BSK ASSOCIATES	120.00	120.00
2/16/17	29695	2020N 1020SC	Invoice: 13-1002-1 CBEC	7,437.40	7,437.40
2/16/17	29696	2020SC 1020SC	Invoice: 2/16/17 SMALL GRANT JASON COLEMAN	6,460.00	6,460.00
2/16/17	29697	2020SC	Invoice: FEB 2017 LEGIS COMM	100.00	

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		1020SC	DALE CROSSLEY		100.00
2/16/17	29698	2020SC	Invoice: 2/16/17 SMALL GRANT	10,880.00	
		1020SC	DALE OATES		10,880.00
2/16/17	29699	2020SC	Invoice: SI348754	1,950.06	
		1020SC	DLT SOLUTIONS, LLC		1,950.06
2/16/17	29700	2020SC	Invoice: 83486	265.20	
		2020SC	Invoice: 83485	120.87	
		1020SC	HERUM \ CRABTREE \ SUNTAG		386.07
2/16/17	29701	2020SC	Invoice: FEB 2017 LEGIS COMM	100.00	
		1020SC	ELIZABETH PATTERSON		100.00
2/16/17	29702	2020SC	Invoice: 1/30/17 REFILL	1,510.00	
		1020SC	PITNEY BOWES		1,510.00
2/16/17	29703	2020SC	Invoice: 002246	42.61	
		2020SC	Invoice: 002245	180.20	
		2020SC	Invoice: 009093	333.75	
		1020SC	SAM'S CLUB		556.56
2/16/17	29704	2020SC	Invoice: 34517	24,415.50	
		1020SC	SOUTHWEST ENVIRONMENTAL		24,415.50
2/16/17	29705	2020SC	Invoice: FEB 2017 LEGIS COMM	100.00	
		1020SC	JAMES SPERING		100.00
2/16/17	29706	2020N	Invoice: 981	480.00	
		1020SC	STUMPY TRUCKING, INC.		480.00
2/22/17	29707	2020SC	Invoice: 17-180-V JAN 2017		6,556.00
		2020SC	Invoice: 17-026-T MAR 2017	560,905.00	
		2020SC	Invoice: 17-024-O MAR 2017	666.00	
		1020SC	DEPARTMENT OF WATER RESOURCES		555,015.00
2/22/17	29708	2020SC	Invoice: CL42950	586.98	
		1020SC	INTERSTATE OIL COMPANY		586.98
2/22/17	29709	2020SC	Invoice: 1413	5,516.00	
		1020SC	IRON SPRINGS CORPORATION		5,516.00
2/22/17	29710	2020SC	Invoice: 1/10/17 - 2/8/17	982.09	
		1020SC	PACIFIC GAS & ELECTRIC CO,		982.09
2/22/17	29711	2020SC	Invoice: 14197	2,923.80	
		1020SC	RICHARD HEATH & ASSOCIATES, INC.		2,923.80
2/22/17	29712	2020SC	Invoice: 006492990046MAR2017	1,364.15	
		1020SC	STANDARD INSURANCE COMPANY		1,364.15
2/22/17	29713	2020SC	Invoice: 1745440041	158.18	
		2020SC	Invoice: 83143	193.60	
		2020SC	Invoice: 24943	185.94	
		2020SC	Invoice: 1756804401	11.18	
		2020SC	Invoice: 1756804721	150.66	
		2020SC	Invoice: 1756934031	49.45	
		2020SC	Invoice: 1758386921	83.92	

**SOLANO COUNTY WATER AGENCY**  
**Cash Disbursements Journal**  
**For the Period From Feb 1, 2017 to Feb 28, 2017**

Filter Criteria includes: Report order is by Check Number. Report is printed in Detail Format.

Date	Check #	Account ID	Line Description	Debit Amount	Credit Amount
		2020SC 1020SC	Invoice: 1758527521 STAPLES	199.02	1,031.95
2/22/17	29714	2020SC 1020SC	Invoice: 002 THINKING GREEN CONSULTANTS	1,042.98	1,042.98
2/22/17	29715	2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 1020SC	Invoice: 12089908 Invoice: 12089904 Invoice: 12089909 Invoice: 12089872 Invoice: 12089969 Invoice: 12090907 THE TREMONT GROUP, INC.	389.41 81.09 66.50 297.00  83.43	47.35 870.08
2/22/17	29716	2020SC 2020SC 2020SC 1020SC	Invoice: K05867910101 Invoice: K05867910102 Invoice: K05903840101 ZONES INC.	1,054.29 212.11 2,278.25	3,544.65
2/22/17	29717	2020SC 1020SC	Invoice: 7002 ZUNZUN	6,050.00	6,050.00
2/27/17	29718	2020SC 1020SC	Invoice: 2319 AG INNOVATIONS	17,078.94	17,078.94
2/27/17	29719	2020SC 2020SC 1020SC	Invoice: 000009269087 Invoice: 000009269132 CALNET3	248.03 164.24	412.27
2/27/17	29720	2020N 1020SC	Invoice: 16-1009-2 CBEC	630.00	630.00
2/27/17	29721	2020SC 1020SC	Invoice: 5-710-46268 FEDEX EXPRESS	675.36	675.36
2/27/17	29722	2020SC 1020SC	Invoice: PETERSEN RANCH MARY HEARN	1,728.36	1,728.36
2/28/17	29722V	2020SC 1020SC	Invoice: PETERSEN RANCH MARY HEARN	1,728.36	1,728.36
2/27/17	29723	2020SC 1020SC	Invoice: 151630 LSA ASSOCIATES, INC.	8,565.81	8,565.81
2/27/17	29724	2020SC 1020SC	Invoice: 0007617032-3 PACIFIC GAS & ELECTRIC CO,	7,280.00	7,280.00
2/27/17	29725	2020SC 1020SC	Invoice: 10274790 PAPE MACHINERY	314.74	314.74
2/27/17	29726	2020SC 2020SC 1020SC	Invoice: 1058 Invoice: 1040 SOLANO RESOURCE CONSERVATION DISTRICT	7,209.00 2,794.72	10,003.72
2/27/17	29727	2020SC 1020SC	Invoice: 20961-22 THE REGENTS OF THE UNIVERSITY OF CA	1,222.29	1,222.29
2/27/17	29728	2020N  1020SC	Invoice: MARGARET MENTCH MARGARET MENTCH	306.00	306.00
2/27/17	29729	2020N  1020SC	Invoice: SAM MIDDLEBROOK SAM MIDDLEBROOK	1,500.00	1,500.00
2/27/17	29730	2020N	Invoice: STEVEN SANTA MARIA	50.00	

**SOLANO COUNTY WATER AGENCY**  
**Cash Disbursements Journal**  
For the Period From Feb 1, 2017 to Feb 28, 2017

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Date	Check #	Account ID	Line Description	Debit Amount	Credit Amount
		1020SC	STEVEN SANTA MARIA		50.00
2/27/17	29731	2020SC	Invoice: SCWA-FY2016-17_5	14,822.00	
		2020SC	Invoice: LPCCC-FY2016-17_5	2,997.44	
		1020SC	WILDLIFE SURVEY & PHOTO SERVICES		17,819.44
2/28/17	29732	2020SC	Invoice: 17001	35,659.86	
		1020SC	AGRICHEM SERVICES, INC.		35,659.86
2/28/17	29733	2020SC	Invoice: 141108	1,714.65	
		2020SC	Invoice: 141109	1,829.96	
		1020SC	DEPT OF FORESTRY & FIRE PROTECTION		3,544.61
2/28/17	29734	2020N	Invoice: 9367501682	178.80	
		1020SC	GRAINGER		178.80
2/28/17	29735	2020SC	Invoice: PETERSEN RANCH	1,728.36	
		1020SC	MARY HEARN		1,728.36
2/28/17	29736	2020SC	Invoice: CL44222	661.15	
		1020SC	INTERSTATE OIL COMPANY		661.15
2/28/17	29737	2020SC	Invoice: 1512404	455.17	
		1020SC	RAY MORGAN COMPANY		455.17
2/28/17	29738	2020SC	Invoice: MARK COSS	1,000.00	
		1020SC	MARK COSS		1,000.00
2/28/17	29739	2020SC	Invoice: MELINDA KUEBLER	50.00	
		1020SC	MELINDA KUEBLER		50.00
2/11/17	ASHLEY JAN 20	6040AC	REMOTE LINK CONF CALL	31.10	
		6040AC	REMOTE LINK CONF CALL	9.08	
		6040AC	REMOTE LINK CONF CALL	13.36	
		6040AC	REMOTE LINK CONF CALL	14.56	
		6040AC	SAMS CLUB	129.76	
		6040AC	REMOTE LINK CONF CALL	23.27	
		6040AC	NOTARY OATH	40.00	
		6040AC	NOTARY RECORDING	13.00	
		1020SC	BANK OF THE WEST		274.13
2/25/17	BARICH JAN 20	6310AC	CHEVRON	50.78	
		6042AC	APL ITUNES	5.99	
		6310AC	CHEVRON	63.14	
		1020SC	BANK OF THE WEST		119.91
2/6/17	COLIAS JAN 201	6040AC	CUBICLE KEYS	14.00	
		6041AC	VARIDESK - CUBE CORNER	533.99	
		1020SC	BANK OF THE WEST		547.99
2/25/17	CUETARA JAN 2	6310AC	CHEVRON	61.27	
		6144AC	LOWES	126.62	
		6144AC	LOWES	6.44	
		6310AC	SHELL OIL	54.02	
		6144AC	THE HOME DEPOT	102.11	
		6144AC	AMAZON	79.67	
		6144AC	AMAZON	74.99	
		6310AC	CHEVRON	75.52	
		1020SC	BANK OF THE WEST		580.64
2/17/17	EFT	2020SC	Invoice: 2017021501	185.40	
		1020SC	PAYCHEX, INC.		185.40
2/17/17	EFT	2024AC	EMPLOYEE LIABILITIES - PPE 02.11.17	10,756.92	



**SOLANO COUNTY WATER AGENCY**  
**Cash Disbursements Journal**  
For the Period From Feb 1, 2017 to Feb 28, 2017

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Date	Check #	Account ID	Line Description	Debit Amount	Credit Amount
		6012AC	PPE 02.11.17 EMPLOYER LIABILITIES -	1,673.43	
		1020SC	PPE 02.11.17 PAYROLL TAXES		12,430.35
2/6/17	EFT	2020SC 1020SC	Invoice: HEALTH FEB 2017 CALPERS	16,400.64	16,400.64
2/6/17	EFT	2020SC 1020SC	Invoice: PEPPRA PPE 01.28.17 CALPERS	896.97	896.97
2/6/17	EFT	2020SC 1020SC	Invoice: PPE 01.28.17 CALPERS	7,494.90	7,494.90
2/6/17	EFT	2020SC 1020SC	Invoice: SIP PPE 1.28.17 CALPERS	3,463.99	3,463.99
2/17/17	EFT	6040AC	EMPLOYEE HANDBOOK ADMIN. FEB 2017	69.96	
		6111AC	FSA PARTICIPANT FEE FEB 2017	111.25	
		1020SC	PAYCHEX, INC.		181.21
2/17/17	EFT	2020SC 1020SC	Invoice: PEPPRA PPE 02.11.17 CALPERS	962.16	962.16
2/17/17	EFT	2020SC 1020SC	Invoice: PPE 02.11.17 CALPERS	7,494.90	7,494.90
2/17/17	EFT	2020SC 1020SC	Invoice: SIP PPE 02.11.17 CALPERS	3,463.99	3,463.99
2/25/17	FLORENDO JAN	6360AC	PAYPAL-CA IRRIGATION CONFERENCE	125.00	
		6551AC	360 WEB SECURITY SITE	50.00	
		6551AC	BLU SOLANO SAVES WATER	23.88	
		6551AC	BAYFRIENDLY LANDSCAPING	100.00	
		1020SC	BANK OF THE WEST		298.88
2/25/17	LEE JAN 2017	6410AC 1020SC	ADOBE CREATIVE CLOUD BANK OF THE WEST	49.99	49.99
2/25/17	PATE JAN 2017	6330AC	CITY OF SAC PARKING	18.00	
		6330AC	ACE PARKING	20.00	
		6330AC	ACE PARKING	20.00	
		6330AC	CITY OF SAC PARKING	20.00	
		6360AC	ABAG INC SAN FRAN	130.00	
		6330AC	ACE PARKING	20.00	
		6330AC	ACE PARKING	20.00	
		6360AC	PAYPAL - CA WATER AND ENVIRONMENTAL MODELING FORUM	500.00	
		6330AC	ACE PARKING	20.00	
		1020SC	BANK OF THE WEST		768.00
2/25/17	RABIDOUX JAN	6144N	JENSEN INSTRUMENT	227.24	
		6310AC	CHEVRON	73.00	
		6041AC	APL ITUNES	5.99	
		6040AC	NAPOLI PIZZERIA	203.66	
		6360AC	NORTHWEST		295.00
		1020SC	ENVIRONMENTAL CREDIT BANK OF THE WEST		214.89
2/25/17	SANFORD JAN 2	6330AC	CITY OF SACRAMENTO PARKING	20.00	
		1020SC	BANK OF THE WEST		20.00
Total				1,368,881.66	1,368,881.66

**ACTION OF  
SOLANO COUNTY WATER AGENCY**

**DATE: March 9, 2017**

**SUBJECT: Putah South Canal Suction Dredge Cleaning Pilot Project**

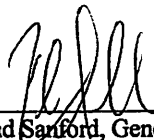
**RECOMMENDATIONS:**

1. Adopt plans and specifications for the Putah South Canal Suction Dredge Cleaning Pilot Project.
2. Authorize staff to solicit construction bids for the Putah South Canal Suction Dredge Cleaning Pilot Project.
3. Authorize General Manager to execute an agreement with the lowest responsible bidder for the Putah South Canal Suction Dredge Cleaning Pilot Project.
4. Authorize General Manager to approve change orders with a cumulative total not to exceed 20% of the awarded bid price.

**FINANCIAL IMPACT:**

The Engineers Estimate for the proposed Project is \$350,000. Sufficient funding has been programmed in the Solano Project budget for Fiscal Year 2016-2017.

Recommended: \_\_\_\_\_

  
Roland Sanford, General Manager

☐

Approved as  
recommended

☐

Other  
(see below)

☒

Continued on Next Page

**Modification to Recommendation and/or other actions:**

I, Roland Sanford, General Manager and Secretary to the Solano County Water Agency, do hereby certify that the foregoing action was regularly introduced, passed, and adopted by said Board of Directors at a regular meeting thereof held on March 9, 2017 by the following vote.

Ayes:

Noes:

Abstain:

Absent:

\_\_\_\_\_  
Roland Sanford  
General Manager & Secretary to the  
Solano County Water Agency

**BACKGROUND:**

The Putah South Canal (PSC) is a 33-mile long concrete canal that begins at Lake Solano and ends in Green Valley (western Fairfield). The canal delivers water to the Solano Irrigation District, Maine Prairie Water District and the cities of Vacaville, Fairfield, Suisun City, Vallejo, and Benicia. Every year the canal is cleaned or partially cleaned in late fall to remove sediment, vegetation, and other debris that can restrict water deliveries. A fleet of heavy equipment including a long reach, bobcats, and a crane are used to mechanically clean the canal. The annual canal cleanout is a two to three month process that requires periodic outages, can lead to significant water quality concerns, and is a significant operational challenge for both the Solano Project Operations staff and to the various water customers.

The Agency has invested considerable time and resources researching alternative methods for cleaning the Putah South Canal. One of the more promising approaches appears to be suction dredging – which staff proposes to perform on a limited scale later this year. The purpose of the proposed pilot project is to confirm whether or not suction dredging will provide the necessary canal cleaning capability while minimizing water quality impacts and ideally, allow for continuous operation of the canal – continuous water deliveries – during canal cleaning operations.

Staff is proposing to use standard construction project bidding protocols to solicit cost proposals from qualified entities. Plans and specifications have been prepared for the proposed pilot project and are available upon request. In keeping with standard construction project bidding protocols, staff is recommending the Board (i) adopt the plans and specifications, (ii) authorize staff to solicit bids, (iii) authorize the General Manager to execute an agreement once the lowest, responsible bidder has been determined, and (iv) authorize the General Manager to approve change orders with a cumulative total not to exceed 20% of the awarded bid price

**RELEVANCE TO 2016-2025 SCWA STRATEGIC PLAN**

The Putah South Canal Suction Dredge Cleaning Pilot Project is consistent with Goal #2 (*Water Management Infrastructure; Objective B*).

ACTION OF SOLANO COUNTY

WATER AGENCY

DATE: March 9, 2017

SUBJECT: Craig Thomsen Contract Amendment for Winters Putah Creek Nature Park Project

RECOMMENDATIONS:

Authorize General Manager to execute contract amendment for additional ecological services by Craig Thomsen, in support of Winters Putah Creek Nature Park Project.

FINANCIAL IMPACT:

Augment existing contract from \$20,000 to \$40,000. The proposed contract amendment is grant funded.

BACKGROUND:

The Water Agency, on behalf of the Lower Putah Creek Coordinating Committee (LPCCC), is performing grant funded work tasks in support of the Winters Putah Creek Nature Park Project. Native vegetation at the Nature Park has been slow to establish due to browsing pressure by beavers and soil compaction in some areas. Additional soil analyses and native vegetation plantings are needed to complete the Nature Park as planned.

The Water Agency is a member and serves as the LPCCC's fiscal agent. The proposed contract amendment is for work tasks to be performed on behalf of the LPCCC using grant funds obtained by the LPCCC.

Recommended:   
Roland Sanford, General Manager

☐

Approved as  
recommended

☐

Other  
(see below)

☒

Continued  
on next page

Modification to Recommendation and/or other actions:

I, Roland Sanford, General Manager and Secretary to the Solano County Water Agency, do hereby certify that the foregoing action was regularly introduced, passed, and adopted by said Board of Directors at a regular meeting thereof held on March 9, 2017 by the following vote.

Ayes:

Noes:

Abstain:

Absent:

Roland Sanford  
General Manager & Secretary to the  
Solano County Water Agency

**SOLANO COUNTY WATER AGENCY**

**AMENDMENT TO AGREEMENT FOR PROFESSIONAL SERVICES**

**AMENDMENT NUMBER:** 2

**CONTRACTOR:** Craig Thomsen

**EFFECTIVE DATE:** March 9, 2017

**PROJECT:** WPCP Ecology and Soils Assessment

**DESCRIPTION OF AMENDMENT:**

1) Increase compensation limit from \$20,000 to \$40,000.

2) Additional scope of work as follows:

- |   |          |
|---|----------|
| a) Coordinate with wildlife monitoring program to identify habitats<br>That can be improved                           | \$ 3,000 |
| b) Conduct soil surveys and depth to groundwater measurements, and recommend<br>measures to enhance soil productivity | \$ 7,000 |
| c) Prepare plant list and planting plan   | \$ 6,000 |
| d) Assist with community outreach   | \$ 4,000 |

**SIGNATURES:**

Solano County Water Agency,  
a Public Agency

By: \_\_\_\_\_  
Roland Sanford  
Solano County Water Agency

By: \_\_\_\_\_  
Craig Thomsen



# SOLANO COUNTY WATER AGENCY



## MEMORANDUM

**TO:** Board of Directors

**FROM:** Roland Sanford, General Manager

**DATE:** March 3, 2017

**SUBJECT:** March 2017 General Manager's Report

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### Record Breaking Rainfall and Runoff

By all accounts, this has been an exceptionally wet year for the Putah Creek drainage and surrounding region. The most recent October –February time frame was the wettest, in terms of runoff for the Putah Creek drainage, in over 100 years:

<u>Rank</u>	<u>Water Year</u>	<u>Putah Creek Oct-Feb Runoff (acre-feet)</u>
1	2017	801,985
2	1914	796,200
3	1956	772,043
4	1909	756,300
5	1998	671,496

*Period of Record: 1906 - 2017*

The rainy is in its final month or two and already, the 2017 Water Year ranks as the 5<sup>th</sup> wettest year on record for the Putah Creek drainage:

<u>Rank</u>	<u>Water Year</u>	<u>Putah Creek Annual Runoff (acre-feet)</u>
1	1983	1,145,300
2	1995	1,000,655
3	1998	861,000
4	2006	813,690
5	2017 (through Feb)	801,985

*Period of Record: 1906 – 2017*

810 Vaca Valley Parkway, Suite 203  
Vacaville, California 95688  
Phone (707) 451-6090 • FAX (707) 451-6099  
[www.scwa2.com](http://www.scwa2.com)



Before the current rainy season ends in April or May, the 2017 Water Year is most likely to be the third wettest year on record for the Putah Creek drainage. To help keep these runoff totals into perspective, based on the historical record, average annual runoff for the Putah Creek drainage is just 375,000 acre-feet.

In a similar vein, the most recent October –February time frame was also the wettest, in terms of rainfall, at Fairfield, since at least 1951:

<u>Rank</u>	<u>Water Year</u>	<u>Fairfield Oct-Feb Rainfall (inches)</u>
1	2017	35.4
2	1998	33.5
3	1973	30.2
4	1993	29.3
5	1980	28.7
<i>Period of Record: 1951 - 2017</i>		

Assuming there was no additional rain for the balance of the rainy season, 2017 would still rank as the 6<sup>th</sup> wettest water year in Fairfield:

<u>Rank</u>	<u>Water Year</u>	<u>Fairfield Annual Rainfall (inches)</u>
1	1998	41.8
2	2006	41.7
3	1983	39.6
4	1982	37.3
5	1995	35.8
6	2017 (through Feb)	35.4
<i>Period of Record: 1951 – 2017</i>		

On February 17, 2017 Lake Berryessa filled to capacity and began spilling through the Glory Hole – the first such spill since 2006. The spill was much anticipated and has attracted much more media attention than ever before. Both the CBS and Fox News covered the story on national television. I’m attributing the burst of attention to the power of social media such as Facebook and the emergence of drone video technology – which has been used to take some amazing video footage that can be accessed on the Web. In past weeks the parking lot at Monticello Dam has typically been filled to capacity.

### **Oroville Dam Spillway Repairs**

The Oroville Dam spillway repair work has dominated the news and has raised concerns nationwide regarding the status of dams and other aging infrastructure. Oroville Dam is the primary water storage facility for the State Water Project. To date there has been no word from the Department of Water Resources (DWR) as to whether or not the damage to the spillway, and

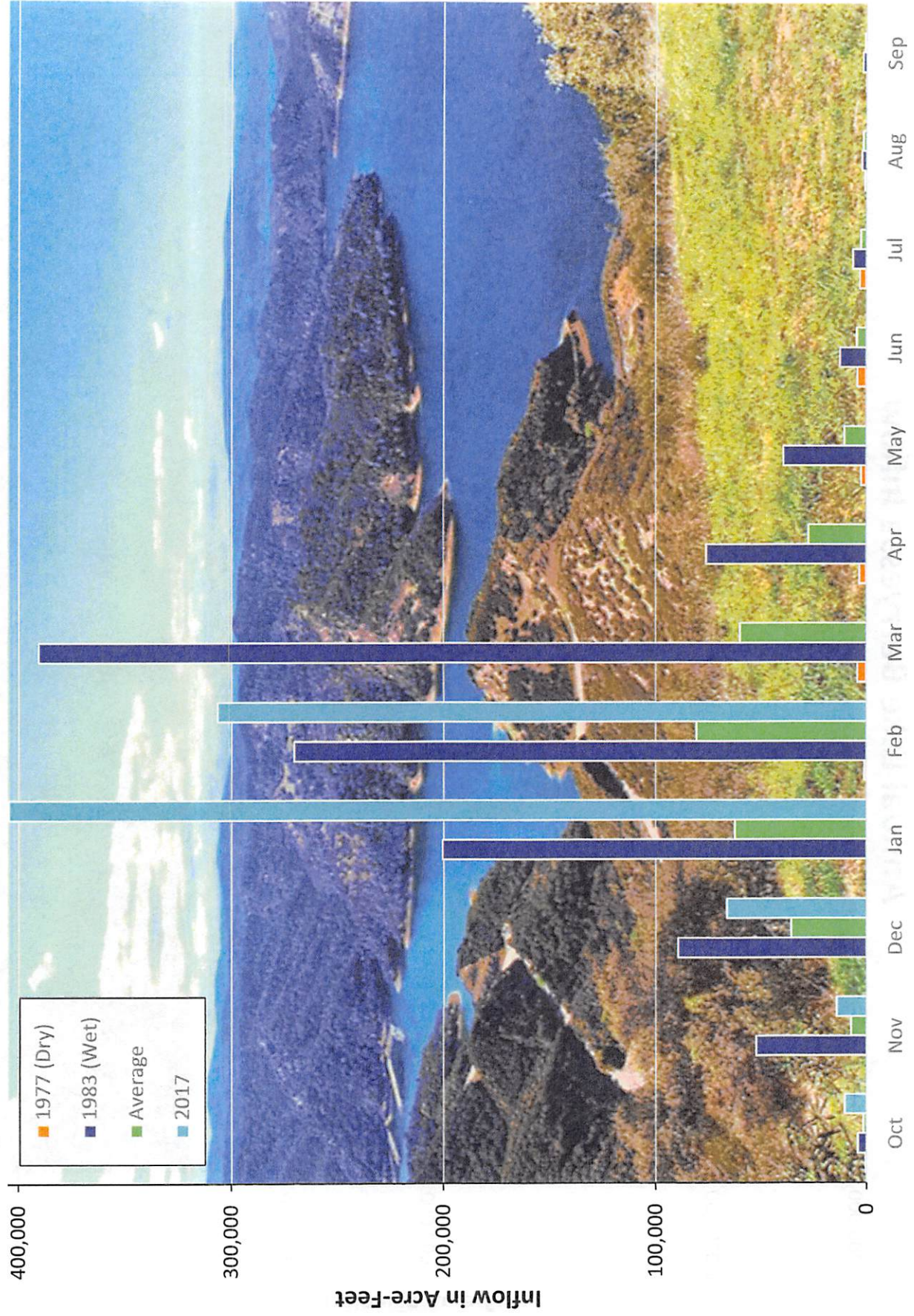
forthcoming repair work, will impact current State Water Project allocations. The good news is that there is plenty of water in storage, the bad news is that DWR may need to curtail reservoir releases (water deliveries) in order to complete spillway repairs. At the moment, the 2017 North Bay Aqueduct allocation remains at 85 percent of the full Table A contractual amount. In view of the Oroville Dam situation, we expect the Bureau of Reclamation to conduct an extensive review of the Solano Project facilities this summer or fall.

#### **State Water Project Water Exchanges and Sales**

At last month's Board meeting there were several questions regarding the "nuts and bolts" of State Water Project Water exchanges and sales. The attached memo dated February 22, 2017 summarizes the processes and constraints on State Water Project water exchanges and sales, as dictated by the Water Agency's water supply contract with DWR.

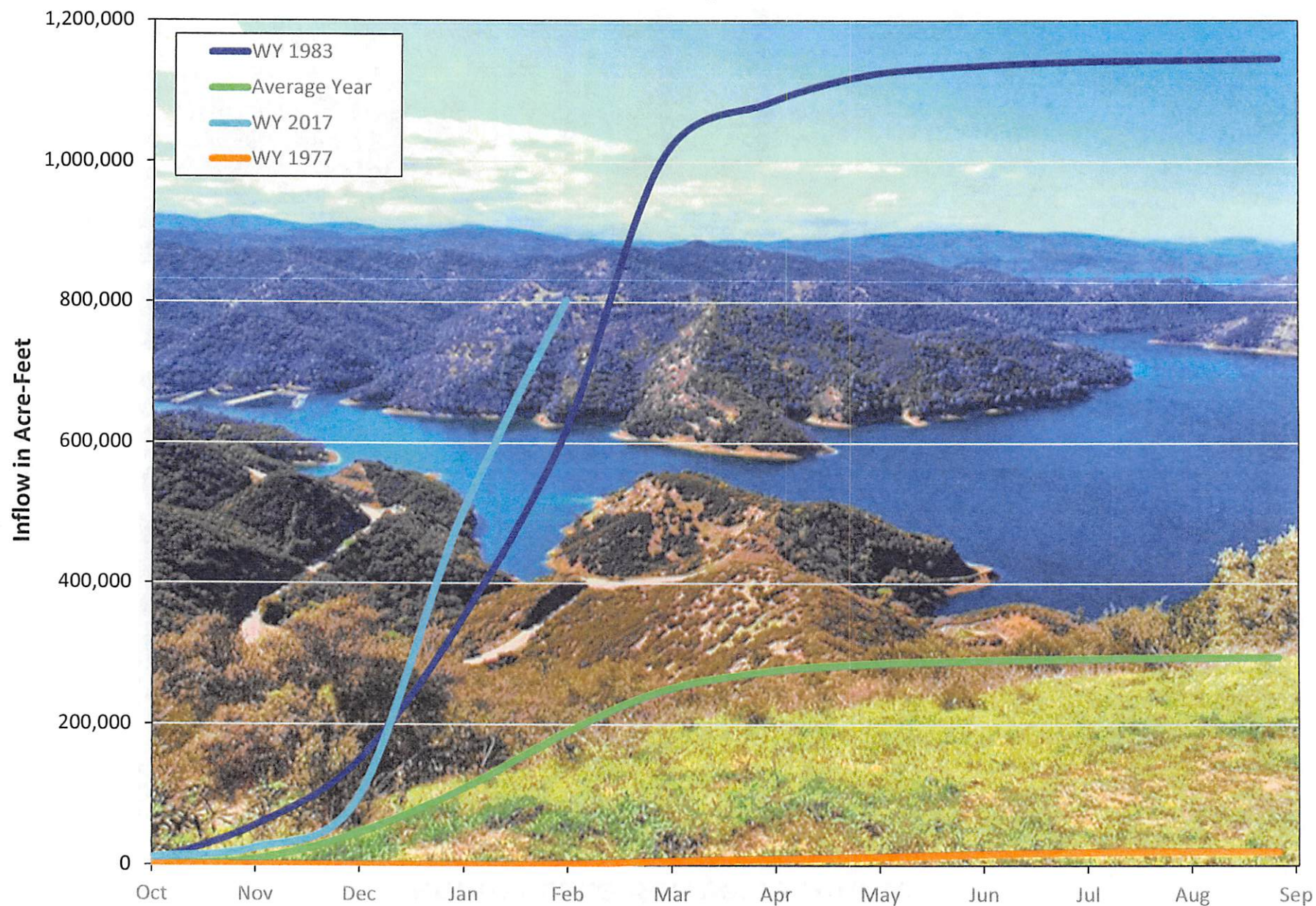


# Annual Lake Berryessa Inflow





## Annual Lake Berryessa Inflow





# SOLANO COUNTY WATER AGENCY



## MEMORANDUM

**TO: Roland A. Sanford, General Manager**

**FROM: Thomas L. Pate, PE; District Engineer**

**DATE: February 22, 2017**

**SUBJECT: SWP Water Exchanges**

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The Solano County Water Agency is the only Solano entity recognized by the State as the “Contractor” to and executor of the “Water Supply Agreement Between the State of California and the Solano County Water Agency”. The Agency has subsidiary service agreements with the Cities that stipulate term for provision of water service to the Cities as made available by the State to the Agency in accordance with the provisions of the State Contract. The annual allocation of new water supply made available by the State to the Contractor is known as “Table A” water. The Cities currently pay the Agency \$20.50 per AF per year of their maximum portion of Table A regardless of the actual allocation of Table A for that year. The Agency subsidizes the cost difference toward the annual Delta water rate charged to the Agency by the State and the monthly O&M costs to DWR from the NBA Zone of Benefit tax collected through property tax assessments.

Article 12 (e), allows the contractor to “Carry-over” excess Table A from the current year into next year with some limitations, provided there are no adverse impacts to the Project, but stipulates this carryover can only be held in storage for the first 3 months into the following year and must be delivered within that period or is forfeited to the Project. Article 56 water is essentially carryover water but must be differentiated from “carryover” as described in 12 (e) and allows greater flexibility.

Article 56 (part of the Monterey Amendments) governs the “Use, Storage, and Sale of Project Water Outside of Service Area and Storage of Water in Project Surface and Conservation Facilities”. The provisions of this article are in addition to 12 (e). Subdivision (c) allows for the contractor to place a limited amount of excess Table A from a current year’s allocation into storage, based on storage availability, for use by contractor in subsequent years. The annual amount added to storage is termed “Article 56” water and can be compounded annually in storage for delivery to the contractor until that storage capacity is required for Project purposes such as new Project water supply. New Project water displaces Article 56 water. Any contractor electing to store project water under the provisions of (c) may not **sell** project water under the provisions of Article 56 (d) during the year in which it elected to store project water.



Article 56(d), “Sale of Project Water for Use Outside Service Area”, is currently the **only means for a contractor to “sell”** allocated annual Table A that it will not use within its service area provided that the contractor has not elected to store project water in accordance with subdivision (c) during that year, and has not elected to carryover Table A from the prior year pursuant to 12 (e).

Each year the State establishes a Turn-Back Pool for contractors to buy and **sell** amounts of annual Table A not desired that year. The Pool is the exclusive means of selling portions of annual Table A allocations. Water placed in the Pool **by** February 15 and requested for purchase by March 1 shall have a unit price of 50% of the current Delta water rate paid to the seller. Water placed in the Pool **after** February 15, but **by** March 15, and requested for purchase by April 1 shall have a unit price of 25% of the current Delta water rate paid to the seller. Unsold water may be withdrawn by the seller **by** April 1. For example, the current unit price for Turn-back Pool water for 2017 is \$34.44 per AF.

Article 56(f), “Bona Fide Exchanges Permitted”, does not prevent a contractor from entering into agreements for bona fide exchanges of project water with other parties for project and non-project water **if the State consents**. A “bona fide” exchange means an exchange of water involving a contractor to another party where the primary consideration for one party furnishing water to another is the return of a substantially similar amount of water, after giving due consideration to the timing or other non-financial conditions of the return. Reasonable payment for costs incurred in effectuating the exchange and reasonable deduction from water delivered, based on expected storage or transportation losses may be made. **A bona fide exchange shall not include a transfer of water involving a significant payment unrelated to the costs incurred in effectuating the exchange.** The State, in consultation with the State Water Contractors, has the authority to determine whether transfers of water constitute “bona fide exchanges” as described and not disguised sales.

Exchange requests are meticulously scrutinized by DWR and they do not (will not) put out any official rules on exchanges of Table A, they point to the State Contract. Some basic rules of the past:

- Can only exchange current year table A (carryover not allowed) moved straight from the Delta to the turnouts of the receiving contractor.
- “Receiver” can’t store or carry over received transfer water, must be taken at point of delivery. Returns must be paid back within 1 (must hold it for at least one year) to 10 years.
- Ratios of 1:1 or 2:1 generally work.
- Cash to cover some of providing contractor’s cost has been allowed on a case-by-case basis (need support documentation to show no profit being made; just offset of incurred expenses).
- DWR prefers a letter from the SWC showing no resistance to proposal from SWC members.

Our colleague NBA contractor, Napa County Flood Control and Water Conservation District, effectuated a bona fide exchange agreement with Santa Clara Valley Water District in 2016. That approved agreement is attached as a close to home example.

**DRAFT**

**TERM SHEET  
for development of a  
2016 Exchange Agreement between  
Napa County Flood Control and Water Conservation District  
and  
Santa Clara Valley Water District**

1. **Water Exchange:** Napa County Flood Control and Water Conservation District (Napa) to provide up to 8,259 acre-feet of water from its 2016 State Water Project Table A supplies to Santa Clara Valley Water District (SCVWD) in calendar year 2016. Because water year 2016 is nearly over, SCVWD may take partial delivery in 2016 but will likely carry over most if not all of this water in San Luis Reservoir for utilization in 2017. SCVWD will make best efforts to return one-half the quantity received, up to 4,129.5 acre-feet, by calendar year 2022 and may return all or a portion of the water in any one year such that the total amount returned is 4,129.5 acre-feet. If SCVWD determines that it is unable to return the full quantity of water owed due to insufficient water supplies, facility outages, maintenance/repair issues, emergencies, or other factors, then the time period for return will be extended another 5 years, for a total of 10 years.
2. **Point of Delivery:** For water provided by Napa to SCVWD, point of delivery may be Banks pumping plant. For water provided by SCVWD to Napa, point of delivery may be their turnout at the end of the North Bay Aqueduct
3. **Purchase Price:** Santa Clara pays \$200/acre-foot for water received by SCVWD. SCVWD will provide payment to Napa within 30 days following delivery of water to SCVWD.
4. **Conveyance Costs from point of delivery to Buyer:** Buyer to pay all costs to deliver/convey water from the Point of Delivery to place of use.
5. **Conveyance Costs from point of delivery to Seller:** Seller to pay all costs to deliver/convey the Future Year Water Return from the Point of Delivery to place of use.

Mr. Craig Trombly  
Page 2  
October 14, 2016

Cc: Terry Erlewine

Attachments: Contract Information Form  
Draft Agreement

October 20, 2016



Mr. Craig Trombly, Acting Chief  
State Water Project Analysis Office  
Department of Water Resources  
P. O. Box 942836  
Sacramento, CA 94236-0001

Dear Mr. Trombly:

At their October 20, 2016 meeting, the State Water Contractors' Board of Directors (Board) supported and recommended that the Department of Water Resources (DWR) approve a proposed water exchange between Napa County Flood Control and Water Conservation District (NCFCWCD) and Santa Clara Valley Water District (SCVWD). The proposed 2:1 unbalanced exchange, which is described in the enclosed October 14, 2016 letter (with Attachments), calls for delivery of up to 8,259 acre-feet of NCFCWCD's Table A to the SCVWD's service area to help address their water shortage due to the continuing drought.

The Board feels this proposal is within the spirit of Director Cowin's April 11, 2014 Notice to SWP Contractors which encouraged collaboration among the SWP Contractors by implementing innovative water management measures during times of drought.

If you have any questions about the proposed transfer, please have your staff call Eric Chapman at (916) 447-7357 ext. 209.

Sincerely,

Terry L. Erlewine  
General Manager

Enclosure

#### **DIRECTORS**

**Douglas Headrick**  
President  
San Bernardino Valley  
MWD

**Mark Gilkey**  
Vice President  
Tulare Lake Basin Water  
Storage District

**Stephen Arakawa**  
Secretary-Treasurer  
Metropolitan Water District  
of Southern California

**Kirby Brill**  
Mojave Water Agency

**Curtis Creel**  
Kern County Water Agency

**Cindy Kao**  
Santa Clara Valley Water  
District

**Phillip Miller**  
Napa County FC&WCD

**Ray Stokes**  
Central Coast Water  
Authority

**Matthew Stone**  
Castaic Lake Water Agency

**General Manager**  
Terry Erlewine



Mr. Craig Trombly, Acting Chief  
State Water Projects Analysis Office  
Department of Water Resources  
P.O. Box 942836  
Sacramento, CA 94236-0001

Re: Exchange Request for 2016 – Up to 8,259 Acre-Ft  
Napa County Flood Control and Water Conservation District &  
Santa Clara Valley Water District

Dear Mr. Trombly,

The Santa Clara Valley Water District (Santa Clara) is requesting approval of an exchange with Napa County Flood Control and Water Conservation District (Napa) of up to 8,259 Acre-Ft of the Napa's Table A allocation for 2016. This transfer will be made to Santa Clara as the State Water Contractor with the DWR in Santa Clara County. This proposed transfer is part of a 2:1 exchange with additional conditions to be finalized in a 3rd party agreement to be approved by Napa and Santa Clara. A draft copy of this agreement is attached for your review and final copy will be provided to you following execution.

The enclosed documents outline this proposed exchange, including the completed CIF form. The CEQA process has been initiated and a copy of the NOE will be sent to you when that is available. The delivery of this supplemental water is to support proactive water management at the end of four years of severe drought by securing available water supplies to support recharge of Santa Clara County's groundwater basins, and to protect against the potential continuation of drought conditions in 2017. The return of a half of the amount of SWP water will be made to Napa prior to December 31, 2027.

We appreciate your attention to this request as we seek to make our target for the start of these deliveries by December 1, 2016. If you have any questions or concerns regarding this request, please contact me, Paul Tjogas or Kathleen Low at our District at (408) 265-2600.

Sincerely,

  
Cindy Kao, Imported Water Unit Manager

**REPORT OF CONSTRUCTION CHANGE ORDERS AND  
CONTRACTS APPROVED BY GENERAL MANAGER UNDER  
DELEGATED AUTHORITY**

**Construction Contract Change Orders (15% of original project costs or \$50,000, whichever is less)**

**Construction Contracts (\$30,000 and less)**

**Professional Service Agreements (\$30,000 and less)**

Solano Resource Conservation District – Americorps \$12,000

**Non-Professional Service Agreements (\$30,000 and less)**

**Construction contracts resulting from informal bids authorized by SCWA Ordinance**

Note: Cumulative change orders or amendments resulting in exceeding the dollar limit need Board approval.

**ACTION OF  
SOLANO COUNTY WATER AGENCY**

**DATE:** March 9, 2017

**SUBJECT:** Review of Flood Management Activities and Services provided by Water Agency

**RECOMMENDATION:**

Hear report on flood management activities and services provided by Water Agency, and discuss process for defining Water Agency's future role in flood management.

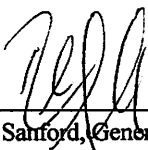
**FINANCIAL IMPACT:**

None at this time.

**BACKGROUND:** (see attached)

**RELEVANCE TO 2016-2025 SCWA STRATEGIC PLAN:**

The review and discussion of the Water Agency's flood management activities and services is consistent with Goal#3 of the 2016-2017 SCWA Strategic Plan (*Flood Management: Implement SCWA's role in flood management*) and Objective B of Goal #3 (*Define SCWA's role in flood management*).

Recommended:   
Roland Sanford, General Manager

☐

Approved as  
recommended

☐

Other  
(see below)

☐

Continued on  
next page

**Modification to Recommendation and/or other actions:**

I, Roland Sanford, General Manager and Secretary to the Solano County Water Agency, do hereby certify that the foregoing action was regularly introduced, passed, and adopted by said Board of Directors at a regular meeting thereof held on March 9, 2017 by the following vote.

Ayes:

Noes:

Abstain:

Absent:

\_\_\_\_\_  
Roland Sanford  
General Manager & Secretary to the  
Solano County Water Agency



# SOLANO COUNTY WATER AGENCY



## MEMORANDUM

**TO:** SCWA Board of Directors

**FROM:** Roland Sanford, General Manager

**DATE:** March 2, 2017

**SUBJECT:** Current and Future Flood Management Activities and Services

---

### 1.0 Introduction

The Solano County Water Agency – the successor to the Solano County Flood Control and Water Conservation District – was created by the State Legislature in 1989 (Solano County Water Agency Formation Act of 1989). Through the Formation Act, the Solano County Water Agency inherited operation and maintenance responsibility of the Ulatis Flood Control Project, the Green Valley Flood Control Project, and the Mellin Levee from the now defunct Solano County Flood Control and Water Conservation District. In addition, Section 408 of the Solano County Water Agency Formation Act granted the Solano County Water Agency the authority – but not the obligation – to conduct additional flood control activities beyond the scope of the aforementioned operation and maintenance responsibilities. Section 408 of the Solano County Water Agency Formation Act reads as follows:

*“The agency may control flood and storm waters within the agency and the flood and storm waters of streams outside of the agency which flow into the agency; conserve those waters by storage in surface reservoirs; divert and transport those waters for beneficial uses within the agency; release those waters from surface reservoirs to replenish and augment the supply of waters in natural underground reservoirs; and otherwise reduce the waste of water and protect life and property from floods within the agency”*

The appropriate flood management role of the Water Agency has been debated off and on since the Water Agency was formed. The last significant debate, with regard to current Water Agency flood management roles and responsibilities, occurred in the mid 1990’s, an extremely wet period which coincidentally, was preceded by six consecutive years of drought. During 1995 and 1998 extensive flooding occurred, most notably in the unincorporated areas of Sweeney Creek, upstream of Interstate 505, and portions of Suisun Valley. 1995 and 1998 currently rank as the second and



fourth wettest years on record in the adjacent Lake Berryessa drainage – records dating back to 1906.

The flooding events of the mid 1990's prompted preparation of the Phase I Solano County Water Agency Master Flood Control Plan, dated November 1997, followed by the Phase II Solano County Water Agency Master Flood Control Plan, dated May 1998. The Phase I report is in essence a data compilation and flood characterization document, while the Phase II report identifies specific work tasks and actions for implementation by the Water Agency. **For all practical purposes, the Phase II Solano County Water Agency Flood Control Master Plan defines the current flood management role of the Water Agency.**

## **2.0 Phase II Solano County Water Agency Flood Control Master Plan**

The Phase II Solano County Water Agency Flood Control Master Plan work tasks and actions are organized into the following elements:

- 1) Flood Control/Drainage Planning
  - a) Small Grants
  - b) Local Watershed Management Plans
  - c) U.S. Army Corps of Engineers Watershed Management Plans
- 2) Flood Control/Drainage Activities
  - a) Hydrologic Data Collection Program
  - b) County Hydrology Manual Update
  - c) Ulati Flood Control Project Model Revisions
  - d) National Flood Insurance Program Assistance
  - e) Storm Water Quality Management
- 3) Flood Control/Drainage Coordination

### Flood Control/Drainage Planning

The Flood Control/Drainage Planning element encompasses planning activities ranging from localized drainage issues involving no more than a handful of landowners, to increasingly larger geographic areas that could, in the case of U.S. Army Corps of Engineers Watershed Management Plans, involve adjacent counties and/or watersheds. The Small Grants program provides funding and regulatory permitting assistance to private landowners seeking to remove creek vegetation or debris, and/or control erosion. The Water Agency contracts with the Solano Resource Conservation District to manage the Small Grant program and assist landowners with project implementation. Additional information is posted on the Water Agency's website: [www.scwa2.com](http://www.scwa2.com) (click on the "Flood Control" tab located at the top of the homepage). The Water Agency typically allocates \$50,000/year for small grant projects.

Local Watershed Management Plans or studies typically encompass all or portions of a single watershed and generally involve significant data collection and analysis, and complex regulatory permitting. The resulting projects typically involve the construction and operation of infrastructure that requires more complex funding mechanisms, such as the formation of a benefit assessment district, or outside funding from state or federal agencies. The preparation of a Local Watershed Management Plan or study generally costs between \$75,000 and \$150,000 – all costs typically



borne by the Water Agency. Since 1998, the Water Agency has conducted several local watershed studies, including the Suisun Valley Watershed Study, the McCune Creek Watershed Study, Horse Creek/Bear Creek Watershed Study, and Dixon Study.

No U.S. Army Corps of Engineers (Corps) Watershed Management Plans have been funded or prepared to date. In August 1997, the Corps completed "Expedited Reconnaissance Studies" for the Vacaville-Dixon area, and for the Fairfield Streams/Cordelia Marsh area, with the expectation that preparation of U.S. Army Corps of Engineers Watershed Management Plans would follow. No plans have been prepared to date due to a lack of federal funding. In 1998 it was estimated that each of the two Management Plans would cost between one and two million dollars – half of which would be borne by the federal government, half by local interests.

#### Flood Control/Drainage Activities

The Flood Control/Drainage Activities element includes a combination of ongoing and "one-time" activities. The Hydrologic Data Collection Program is by far the most significant ongoing activity. As a part of this program, the Water Agency installed and is operating a number of automated stream stage (water level in creek or lake) and rain gauge monitoring stations to provide real-time flood information for government entities such as County OES and other interested parties. Data from these stations can be accessed from the Water Agency's website: [www.scwa2.com](http://www.scwa2.com) (click on the "Flood Control" tab located at the top of the homepage).

The County Hydrology Manual is a technical document that provides statistical information on the intensity and duration of rainfall throughout the County. These data, and other design guidance presented in the Manual are used by engineers and hydrologists to "size" culverts and other drainage features to an appropriate level of flood/drainage protection (typically a 10-year or 15-year level of flood protection). While the Manual may not be particularly compelling to the layperson, it is an essential document for those responsible for the design or approval of drainage infrastructure in Solano County. The County Hydrology Manual Update was completed in 1999 and can be downloaded from the Water Agency's website: [www.scwa2.com](http://www.scwa2.com) (click on the "Flood Control" tab located at the top of the homepage).

Revisions to the Ulatis Flood Control Project Model have occurred multiple times since 1998, most recently in the mid 2000's, following the 2005-2006 flood events that caused significant damage in Vacaville. Briefly, during each revision the computer models used to simulate flood flow conditions throughout the Ulatis Flood Control Project are updated with any relevant storm runoff data that becomes available since the prior update, thereby improving the ability of the models to accurately evaluate flood conditions under a variety of conditions. Following the 2005-2006 flood event in Vacaville, the revised Ulatis Flood Control Project Model was instrumental in evaluating the potential benefits of various flood mitigation measures proposed – and in some instances built – by the City of Vacaville.

The Solano County Department of Environmental Management is responsible for flood plan administration (local administration of FEMA's National Flood Insurance Program) and in this capacity has authority to prevent and possibly correct drainage problems where landowners are changing drainage patterns by grading, land leveling or ditch digging. When requested, the Water Agency provides drainage related data to the County, to assist the County in their review of grading, land leveling and ditch digging/realignment activities.

To date the Water Agency has had little or no involvement in storm water quality management. However, as the regulatory permitting requirements associated with storm water runoff continue to evolve it is anticipated that at minimum, the Water Agency will assume an active role in storm water quality management vis-à-vis the Ulati Flood Control Project and the Green Valley Flood Control Project.

#### Flood Control/Drainage Coordination

There is currently no standing committee or forum where the Water Agency and other County/City entities meet to discuss flood management issues. To date coordination tends to be episodic and in response to flood emergencies

### **2.0 Miscellaneous Flood Management Policies**

#### Channel clearing on Private Property

Due to liability issues, the Water Agency does not perform routine channel maintenance on private property. Exceptions include instances where private landowners are willing to grant permanent channel maintenance easements, which guarantee site access regardless of who currently owns the property (not all landowners are willing to allow vegetation removal and/or other channel cleaning activities on their property), or alternatively, temporary access, with the understanding that the work performed by or on behalf of the Water Agency does not obligate the Water Agency to assume future channel maintenance responsibilities at said property. On rare occasions the Water Agency has utilized County Transportation staff to perform emergency debris removal work on private property. However, these emergency actions are not without potentially significant exposure to litigation and therefore, not performed unless the failure to take action could result in significant damage or potential injury or loss of life (the Water Agency does not have the in-house staff capacity to perform channel maintenance work – routine or otherwise – and therefore contracts with the County Transportation Department and occasionally with contractors for all channel maintenance services).

#### Flood Management Project Funding Policy

the Water Agency's current Flood Management Project Funding Policy, which does not apply to projects developed as a part of the Water Agency's Small Grant program (discussed earlier), was adopted by the Water Agency Board of Directors on November 9, 2006 and addresses funding for projects identified as a part of a Local Watershed Management Plan or study. Without going into the details here, the policy allows for funding up to one-third of the capital costs of a qualifying project. In order to qualify, the proposed project must have a benefit-cost ratio equal to or greater than one. To date only one entity – the City of Vacaville – has received funding (3.5 million dollars) pursuant to this policy.

### **3.0 Current Funding of Water Agency Flood Management Activities and Services**

Both the Ulati Flood Control Project and Green Valley Flood Control Project are funded through property tax revenues collected for the sole purpose of operating and maintaining these respective facilities. Accordingly, the property tax revenues associated with these projects cannot be redirected for other purposes. The funds for all other Water Agency flood management activities and services are derived from the Water Agency's share of the county wide property tax revenue, which can be used to fund any activity within the Water Agency's purview, and among other things,

is currently used to fund operation and maintenance of the Solano Project facilities and general Water Agency administration costs.

For fiscal year 2016-2017, the Water Agency's projected flood management expenditures are as follows:

1) Ulatis Flood Control Project	\$ 936,720
2) Green Valley Flood Control Project	\$ 120,100
3) Small Grants Program	\$ 50,000
4) Local Watershed Management Plan (Dixon Area)	\$ 500,000
5) Solano RCD grant administration and flood outreach	\$ 30,000
6) Sweeney Creek Home Raising Grant Program	\$ 25,000
7) Early Warning Stream/Rain gauge operation and maintenance	\$ 20,000
8) Miscellaneous	\$ 30,000
Total:	\$ 1,711,820

#### **4.0 Defining the Water Agency's future role in flood management**

On December 8, 2016 the Water Agency Board of Directors adopted the Water Agency's 2016-2025 Strategic Plan. Among the work tasks identified in the Water Agency's 2016-2025 Strategic Plan is "Objective B of Goal #3: Define Flood Management Role of SCWA". Staff recommends the Board proceed with this work task and to do so, consider scheduling one or more facilitated Board workshops. In defining the Water Agency's future role in flood management, staff recommend the Board address the following:

- 1) The extent to which the Water Agency should be involved in emergency flood response activities (responding to emergency debris removal, etc.) as opposed to flood management planning
- 2) The extent and terms by which the Water Agency will provide channel maintenance services on private property
- 3) The role of the Water Agency in the planning, design and construction of new flood control facilities, or extension of existing facilities (Ulatis Flood Control Project, Green Valley Flood Control Project) to accommodate future development
- 4) The distribution of Water Agency grant funds among entities and geographic areas within the County
- 5) The Water Agency's role in flood management coordination among Solano County entities
- 6) The Water Agency's role in advocating for state and federal funding of flood management activities in or otherwise impacting Solano County

ACTION OF  
SOLANO COUNTY WATER AGENCY

DATE: March 9, 2017

SUBJECT: Authorization for Water Agency to provide administrative and technical services on behalf of proposed Groundwater Sustainability Agency for Solano Sub-basin

RECOMMENDATIONS:

Authorize Water Agency staff to provide administrative and technical services on behalf of proposed Groundwater Sustainability Agency (GSA) for Solano Sub-basin, upon agreement with GSA on scope of said services.

FINANCIAL IMPACT: to be determined, based on final negotiated scope of work.

BACKGROUND:

The Sustainable Groundwater Management Act of 2014 (SGMA) requires the creation of Groundwater Sustainability Agencies (GSAs), preferably by local entities, to develop and implement Groundwater Sustainability Plans (GSPs) for groundwater basins identified in California Department of Water Resources (DWR) Bulletin 118. All groundwater users – public and private – who extract more than two acre-feet of groundwater per year are subject to SGMA and in turn, any GSP developed by the corresponding GSA (see [www.water.ca.gov/groundwater/sgm](http://www.water.ca.gov/groundwater/sgm) for additional information regarding the SGMA).

Recommended:   
Roland Sanford, General Manager

☐

Approved as  
recommended

☐

Other  
(see below)

☒

Continued on  
next page

Modification to Recommendation and/or other actions:

I, Roland Sanford, General Manager and Secretary to the Solano County Water Agency, do hereby certify that the foregoing action was regularly introduced, passed, and adopted by said Board of Directors at a regular meeting thereof held on March 9, 2017 by the following vote.

Ayes:

Noes:

Abstain:

Absent:

\_\_\_\_\_  
Roland Sanford  
General Manager & Secretary to the  
Solano County Water Agency

A voluntary working group composed of staff from Cal Water, City of Dixon, City of Fairfield, City of Rio Vista, Maine Prairie Water District, City of Vacaville, Dixon Resource Conservation District, North Delta Water Agency, Northern Delta GSA/Freshwater Trust, Reclamation District 2068, Sacramento County Water Authority, Solano County, Solano County Ag Advisory Committee, Solano County Farm Bureau, Solano County Water Agency, Solano Irrigation District, Solano Resource Conservation District, Travis Air Force Base, and Yolo County Flood Control and Water Conservation District; collectively referred to as the GSA Advisory Group (GSAG), has been meeting periodically for two years to discuss formation of a Solano Sub-Basin GSA. In October 2016 the GSAG recommended:

- 1) The Solano parties create a GSA for the Solano portion of the Solano Sub-Basin that consisted of representation from the following entities:

- City of Dixon
- City of Fairfield
- City of Rio Vista
- City of Vacaville
- Solano County – District 4
- Solano County – District 5
- Dixon Resource Conservation District
- Solano Resource Conservation District
- Solano Irrigation District
- Maine Prairie Water District
- Rural North Vacaville Water District
- Reclamation District 2068
- Cal Water
- Agricultural Representative # 1 (Farm Bureau nomination)
- Agricultural Representative # 2 (County Ag Advisory Committee nomination)

- 2) The Solano parties develop a Joint Powers Agreement (JPA) that defines the roles and responsibilities of Solano Sub-Basin GSA.

Pursuant to the GSAG's recommendations, the Water Agency would not be a voting member of the GSA, but would provide administrative and technical support to the GSA. Water Agency staff is seeking the Board's authorization to assume the recommended administrative and technical support role, once the parties to the Solano Sub basin GSA have signed the Joint Powers Agreement currently under development. Additional information regarding the GSAG's proposed Solano Sub-basin GSA is attached.

#### RELEVANCE TO 2016-2025 SCWA STRATEGIC PLAN

The Water Agency's participation in the development of a GSA for the Solano Sub-Basin is consistent with Goal #8 (*Groundwater management: Implement SCWA's role in Sustainable Groundwater Management Act*), Objective A (*Participate in ongoing development of Solano Sub-Basin Groundwater Sustainability Agency*) and Objective B (*Support Groundwater Management Plan Development*)



# GSA Advisory Group (GSAG) Recommendations

Summary Document compiled by Ag Innovations. Updated October 14, 2016

## GSA Advisory Group Meeting Participation to Date:

*(Not every person has attended every meeting – some groups have alternates and some have chosen not to engage fully in the process.)*

Jim Allen, Ag Advisory Committee  
Jack Caldwell, Cal Water  
Jim Christensen, Travis Air Force Base  
John Currey, Dixon Resource Conservation District  
Royce Cunningham, City of Vacaville  
Darrell Eck, Sacramento County Water Authority  
Mike Hardesty, RD 2068  
Don Holdner, Maine Prairie Water District  
Misty Kaltreider, Solano County  
Cary Keaton, Solano Irrigation District  
Joe Leach, City of Dixon  
Chris Lee, Solano County Water Agency  
Russ Lester, Ag Advisory Committee

Derrick Lum, Solano County Farm Bureau  
Ryan Mahoney, Maine Prairie Water District  
David Melilli, City of Rio Vista  
Steve Mello, North Delta Water Agency/RD 563  
Peter Miljanich, Solano County  
Tim O'Halloran, Yolo County Flood Control & WD  
Felix Riesenberger, City of Fairfield  
Erik Ringelberg, Northern Delta GSA / Fresh Water Trust  
Chris Rose, Solano RCD  
Melinda Terry, North Delta Water Agency

*Facilitation team: Brooking Gatewood, Joseph McIntyre,  
Tessa Opalach, [Ag Innovations](#).*

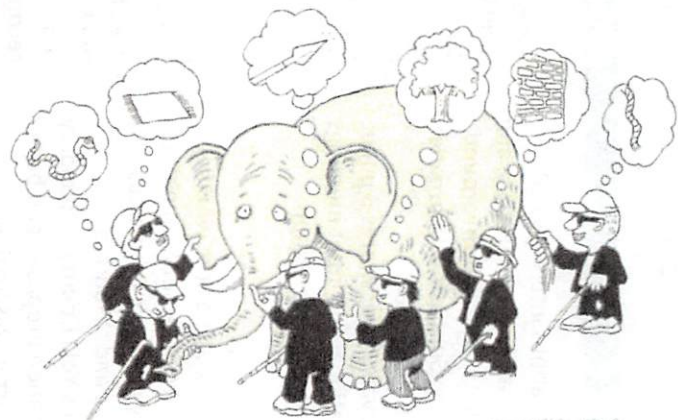
## I. Orientation to the Work

The GSA Advisory Group recognizes that in the Solano Subbasin, our **long-term goal is to maintain a sustainable groundwater basin so we can continue to enjoy our water resources into the future.** We aim to do this by developing a GSA and GSP that minimize conflict in the community, maximize our shared interests, build trust, engage stakeholders, are resource efficient and make the best use of technical knowledge.

As in the old Chinese parable of the elephant (right), we recognize that others' views help complete our shared understanding of groundwater needs for our Subbasin, and that bringing together different views and assets helps create workable solutions for all.

We strive to engage our creative and collaborative mindsets in this process, to identify the underlying core interests behind our positions, and to find solutions that meet as many of our interests as possible. We work with the understanding that assumptions are necessary to move forward, that this is an iterative process, and that we update our assumptions as new information comes in. Finally, we agree to ground rules of full attention, open listening, courteous speaking, suspending certainty, and representing our agency or constituency interests above personal interests throughout the GSAG deliberation process.

***We all hold different parts of the whole.***



This document attempts to summarize the key recommendations that the GSA Advisory Group has reached to date, as well as the reasoning behind each one. Dozens of hours of dialog and deliberation amongst a diverse membership have led to these recommendations – we invite you to review this document with the same long-term goals and intent outlined above, and **please see the charter and meeting notes, available at [www.scwa2.com/sgma](http://www.scwa2.com/sgma), for more detail.**



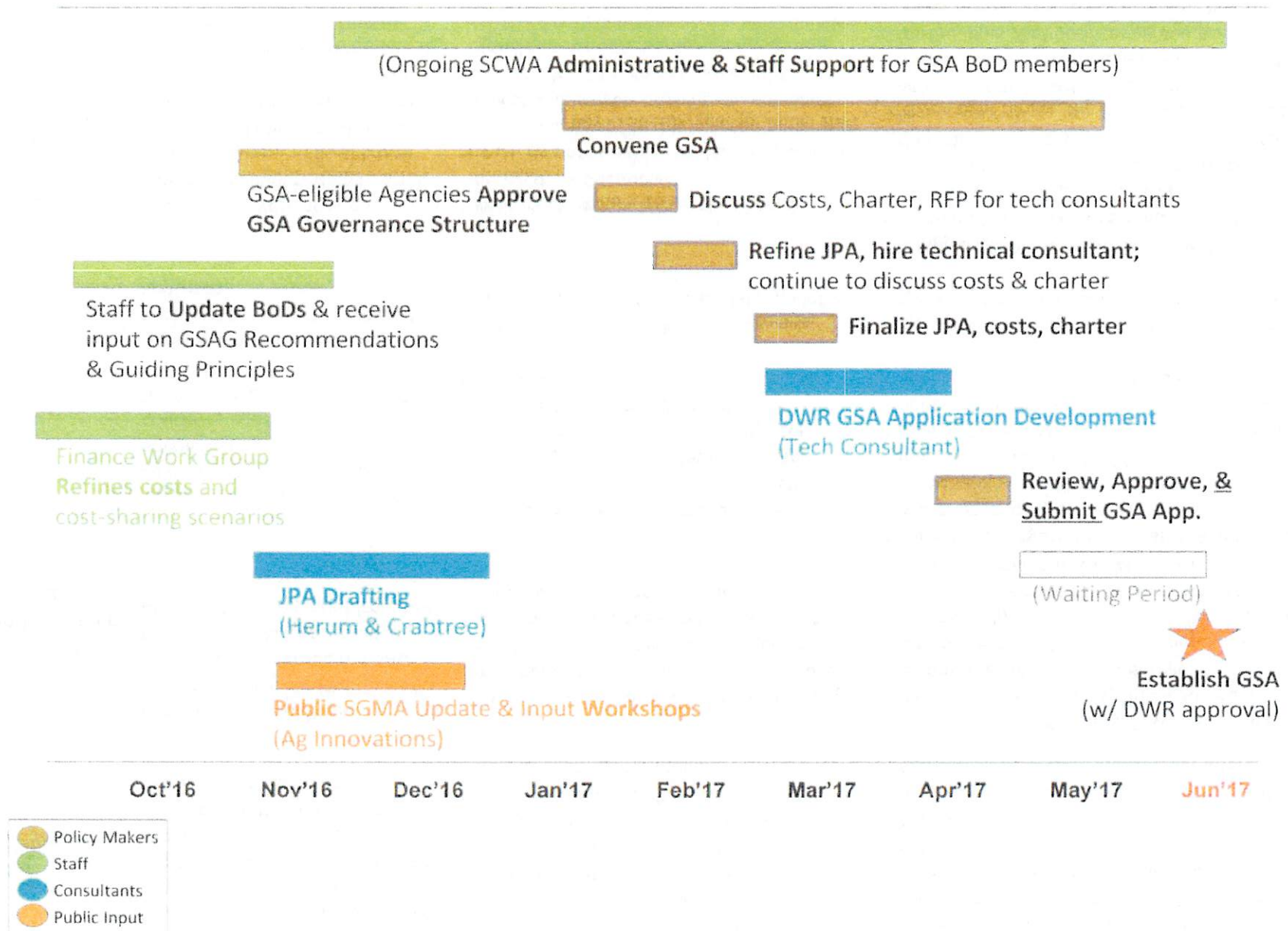
## II. The Road to GSA Notification: 2016 Work to Date



2016 Timeline	Overview	Key Recommendations	Notes and Additional Highlights
<p><i>January – February</i></p> <p><b>Situation Assessment</b></p> <p><b>Public Workshops</b></p>	<p>Ag Innovations interviews 20+ agency staff, elected officials, and community leaders from around the Solano Subbasin and broader Solano County area.</p> <p>Ag Innovations facilitates 3 public informational and input meetings on SGMA implementation.</p>	<ul style="list-style-type: none"> <li>Assessment establishes the need for staff-level <b>GSA Staff Advisory Group (GSAG)</b> outside SCWA Water Policy Council Meetings.</li> <li>It also clarifies the importance of collaboration amongst agencies with input from local stakeholders to meet deadlines.</li> </ul>	<ul style="list-style-type: none"> <li>The assessment reveals an early leaning toward one GSA for Solano portion of the Subbasin.</li> <li>Public meetings highlight regional variance in conditions around the Subbasin, and a strong interest in GSP implementation issues, such as fees.</li> </ul>
<p><i>March</i></p> <p><b>GSAG Charter Development</b></p> <p><b>GSAG holds 1<sup>st</sup> Meeting</b></p>	<p>The GSAG outlines the workflow, established an Asset Map of the advisory group memberships' expertise and resources, discusses Yolo County's Boundary Modification proposal, and begins GSA structure discussions.</p>	<ul style="list-style-type: none"> <li>GSAG approves a charter and decision-making process.</li> <li>Weighing benefits of aiming for one GSA in the Solano Portion of the Subbasin against those of having multiple GSAs, <b>GSAG recommends one Solano County GSA.</b></li> </ul>	<ul style="list-style-type: none"> <li>One GSA allows easier inclusion of areas without agency representation, unified decision-making on basin-wide issues, and better resources efficiencies for both agencies and landowners.</li> <li>Separate GSAs need to be established for the Sacramento and Yolo portions of the Subbasin to ensure appropriate jurisdictional authority.</li> </ul>
<p><i>April – May</i></p> <p><b>Constituency Input</b></p> <p><b>Ag Summit</b></p>	<ul style="list-style-type: none"> <li>GSAG members gather constituency input on governance structure needs for the single GSA option.</li> <li>A planning team of leaders from the ag community, with facilitation support from Ag Innovations, put on an Ag Summit, attended by ~85 community members.</li> </ul>	<p>Ag Summit attendees call for a GSA with: <i>Proportional and fair representation; a focus on the sustainability and longevity of our local groundwater resource; local governance and control; recognition of variance in local conditions; transparency and simplicity of governance; fair access to technical knowledge for sound decision-making; no financial conflicts of interest; and a value on ag's role in the local economy.</i></p>	<ul style="list-style-type: none"> <li>Participants learn about SGMA law and the local Solano Subbasin process.</li> <li>Participants share input on how ag could be represented in the GSA. Many feel agencies could not represent them and want an independent ag role on GSA board. Dixon RCD and RD 2068 are identified as the most trusted eligible agencies.</li> <li>Email listserv and occasional public meetings are identified as best ways to engage the public.</li> </ul>

<p><i>June</i></p> <p><b>GSAG Meeting #2</b></p>	<p>Seven draft governance structure proposals developed by members are discussed, the group votes on top options, and a hybrid model is sketched out that meets most members' named needs.</p>	<ul style="list-style-type: none"> <li>• A governance working group is formed to flesh out a draft governance structure recommendation based on the hybrid model discussed in the meeting.</li> <li>• <b>The GSAG recommends using a JPA or MOU to create a multi-party GSA rather than a single agency model.</b></li> </ul>	<ul style="list-style-type: none"> <li>• GSAG discussion proposes an inclusive, non-rotating board structure aiming for 9-11 members, with 4+ SMAs, and technical advisory bodies to be determined later in the process.</li> <li>• The multi-party GSA recommendation is rooted in the contention that no single agency board can represent all Subbasin stakeholder interests.</li> </ul>
<p><i>July</i></p> <p><b>Governance Working Group Meetings</b></p>	<p>Over the course of three meetings and document review, a diverse working group of GSAG members drafts a governance proposal based on input from the prior meeting.</p>	<ul style="list-style-type: none"> <li>• The proposal suggests a board of 10 voting members. Three special management area (SMA) models are developed (Appendix B).</li> <li>• <b>General governance structure is accepted</b>, with board membership under review.</li> </ul>	<ul style="list-style-type: none"> <li>• Working Group Members: SCWA, SID, the City of Vacaville, Solano County, the Ag Advisory Committee, and the Farm Bureau.</li> <li>• <i>Amendments to the working group proposal are suggested by various boards, so the group keeps working on refining the BoD portion of the proposal to one that works for all parties.</i></li> </ul>
<p><i>August</i></p> <p><b>GSAG Meetings #3 and #4</b></p>	<p>GSAG reviews the working group governance proposal, discusses amendment proposals and concerns, and begins work on funding and cost estimations. The group begins work on guiding principles and key deal points for members to support a single-GSA approach.</p>	<ul style="list-style-type: none"> <li>• <b>The GSAG votes to recommend a Joint Powers Authority governance structure.</b></li> <li>• <b>The group agrees that details of SMA structure should be decided only after more technical data is available.</b></li> <li>• GSAG agrees to develop a statement of principles to support the drafting of the GSA JPA and the GSP development process.</li> <li>• Both principles and financial data will inform final board recommendations.</li> </ul>	<ul style="list-style-type: none"> <li>• Some members propose a draft JPA, discussion of which leads to agreement that a JPA should be developed by legal teams based on guiding principles developed by GSAG.</li> <li>• How SGMA will affect surface water and property rights comes up as a key concern, and the group debates the level of detail needed to address these concerns in principles, JPA, and GSP itself.</li> <li>• Ag Innovations researches other models for addressing decisions &amp; rights issues (Appendix D).</li> <li>• Yolo County staff shared finance assessment template. GSAG survey collects local \$ data.</li> </ul>
<p><i>September</i></p> <p><b>Finance Working Group Meetings</b></p> <p><b>GSAG Meetings #5 and #6</b></p>	<p>The Finance Working Group gathers preliminary data to offer rough estimates of local SGMA expense and revenue pathways. GSAG refines recommendations for guiding principles and agrees on a 16 member board option, to be shared with agency boards and the public for input. Board includes two public ag rep seats.</p>	<ul style="list-style-type: none"> <li>• <b>We recommend a 16 member board</b>, detailed in Appendix A.</li> <li>• Each GSA member agency (except public ag seats) will pay in \$8-10k/year for initial start up costs, and likely ongoing membership.</li> <li>• <b>We develop 13 recommended guiding principles for GSA management.</b> Certain issues of core concern cannot be resolved in detail at this time, but are reflected in these principles statement.</li> </ul>	<ul style="list-style-type: none"> <li>• 16 member board recommendation reflects a solution that each party is willing to support to move forward in the process and meet our timelines. Not every party <i>prefers</i> this option.</li> <li>• Given tight timing, the group hopes for quick agreement on board membership so we can move to refining the JPA and GSA preparatory materials for the June 2017 notification deadline.</li> <li>• GSAG will pause meetings awaiting board input and GSA board formation. The Finance Group will continue to meet to refine SGMA cost estimates.</li> </ul>

### III. The Road to GSA Notification: Looking Ahead to the June 2017 Deadline





## IV. GSAG Draft Governance Structure Recommendations

### Final GSA Advisory Board Recommendation (see Appendix A for additional GSA structure details)

SOLANO SUBBASIN Joint Powers Authority 16 member GSA BOARD	
City of Dixon	Solano Irrigation District
City of Rio Vista	Maine Prairie Water Dist.
City of Vacaville	Rural North Vacaville WD.
City of Fairfield	RD 2068
Solano Co. Dist. 4	Cal Water
Solano Co. Dist. 5	Ag #1 (Farm Bureau nom.)
Dixon RCD	Ag #2 (Ag Advisory Committee nom.)
Solano RCD	North Delta Water Agency

Each group will nominate its own chosen representative to serve on the GSA board. For the two public seats, the proposed process is this: The Solano County Farm, as a private industry group, will offer multiple nominees to the GSA board, and the GSA board will then vote on one of the proposed candidates to serve for each of these two seats. The Solano County Ag Advisory Committee (AAC) will offer its nominations to the Solano County Board of Supervisors, who will appoint one nominee to serve on the GSA. Term length for individual board members will need to be worked out in the JPA development process.

*Highlights from this and other key deliberations underlying these recommendations are detailed below.*

**Board size:** The boards discussed in the proposals ranged from 7 members to 17 members. While some members prefer a smaller board, most agree that a larger and more inclusive board is preferable if agreement cannot be made for a smaller board. The group did indeed have trouble finding agreement for a smaller board, and the success of the 15-member SCWA board made most members comfortable that the GSA would be able to function well with a larger and more inclusive board.

- As with the similar process unfolding in the Yolo Subbasin, the intent is to designate flexibility for GSA membership - eligible member agencies can exit or enter the GSA as desired throughout the SGMA implementation process. Details of notification and financial obligations for exiting members will be detailed in the JPA development process.
- A structure with some rotating or shared board seats was also discussed as a way to allow for more people to sit on the board without having a larger board. However, this was ruled out for concerns of fairness, continuity of knowledge among members, disagreements among those who might share a seat, and the contention that the larger board would serve long term Subbasin interests more effectively.
- The group also discussed different voting options for the membership.
  - Proportional votes came up as a way to allow voting to reflect water use.
  - Weighted voting, determined by groundwater extraction rates and other factors, is proving to be a popular choice amongst other GSAs around the state, but to date, one vote per seat has been favorable amongst Solano Subbasin GSAG members.
    - The group agreed to an exception for Solano County to have a seat for each of the two Supervisors whose regions are largely within the Subbasin.
    - Similarly, the two ag seats represents acknowledgement of the ag community's large role in groundwater use in the county, and the reality of multiple ag community voices, interests, and groundwater contexts and conditions within the county.
  - Using the tool of supermajority and/or unanimous voting for certain high impact decisions has also been discussed, and is a tool being used elsewhere (see Appendix D).

**Ag Representation:** The GSAG ag community representatives, supported by findings from the Ag Summit, suggested that ag needs at least two dedicated seats, in addition to at least one RCD vote for adequate representation in the GSA. Without this, they believe the process will lose support from the ag community and may devolve into litigation. This was an area of much discussion in our meetings. Highlights below:

- Many members feel the current board structure strongly favors ag, with ag supportive board members in many agency and elected positions.
- GSAG ag reps reminded the group that SGMA is a long-term process, and current board views and relationships with the ag community may not reflect future stances. Thus the strong push for two independent seats.
- Some members preferred these seats be publicly elected, though the group agreed in the end to a model where the Farm Bureau and the AAC will nominate multiple possible representatives who are active farmers and groundwater users within the Subbasin, and these nominees would be elected by the appropriate body – the GSA board for the Farm Bureau, and the County Board of Supervisors for the AAC, which is an advisory body to that board. This allows some aspect of voting for these public representative seats, which was crucial for a few members, while preserving the ability of the ag community to nominate preferred representatives via these two trusted bodies.
- Technical support for these seats will be provided by the Farm Bureau and the Ag Advisory Committee so members receive staffing support comparable to what other elected board members receive from their agency staff.
- It is worth noting that for this model to work, a Memorandum of Agreement would not be sufficient for allowing public voting roles on the board and a Joint Powers Agreement would be required (see Appendix C).

**Special Management Areas (SMAs):** SMAs may be used to represent areas where the presence of local conditions for one or more critical parameters differ from those of the Subbasin at large, and where the GSA has determined an area will benefit by identifying site specific conditions of water demand, water use, water source, management strategies, or other characteristics. Members have discussed utilizing 3-5 SMAs throughout the Subbasin to help maintain local decision-making. Each SMA would report to the GSA board and the GSA would report to DWR. Maps of the SMA options are shown in Appendix B.

- Ultimately, the GSA retains responsibility for ensuring sustainable management, but can delegate responsibilities to the SMAs. Responsibilities of SMAs may include: conduct local groundwater monitoring and projects to ensure sustainability, report to GSA on GSP responsibilities/requirements, develop outreach committee to conduct stakeholder/public engagement.
- During the August 4<sup>th</sup> meeting the GSAG agreed to be flexible about the SMA boundaries at this time; and to create a structure that allows for management areas, but not try to define those boundaries without further information on financing and without considering overall sustainability.

**Technical Advisory Committee:** GSAG recommends that an advisory group to the GSA be formed to provide information and recommendations to the GSA policy makers. The proposed membership would include a staff representative from each of the GSA entities as well as a representative chosen by each SMA. Staff from Solano County Water Agency and Solano County would provide administrative and technical services to the GSA Advisory Committee. Potential GSA Advisory Committee responsibilities include, but are not limited to: developing SGMA reports/plans/procedures/parameters for GSA to consider; advising GSA chair members on SGMA action items; drafting specific recommended policies, guidance, requirements and regulations for GSA consideration; providing oversight and coordination of SMAs; financial oversight; GSP implementation.

## V. **DRAFT** Recommended GSA Governance Guiding Principles

**The purpose of GSA principles** is to assist GSA member agencies and other stakeholders to engage in a transparent and effective discussion regarding expectations for GSA operations and coordination within the basin.

The following principles for the Solano Subbasin are based on GSA Advisory Group discussions to date, the principles represented in the GSAG charter, the principles developed at the Solano County Ag Summit, and examples from other Subbasins. There is broad agreement in the GSA Staff Advisory Group on the value of the core concepts underlying each principle for the GSA Board's JPA development, GSP development, and ongoing GSA governance. **However, the principles are presented here in draft form as the GSAG members continue to refine wording in a few areas, most notably for #13.**

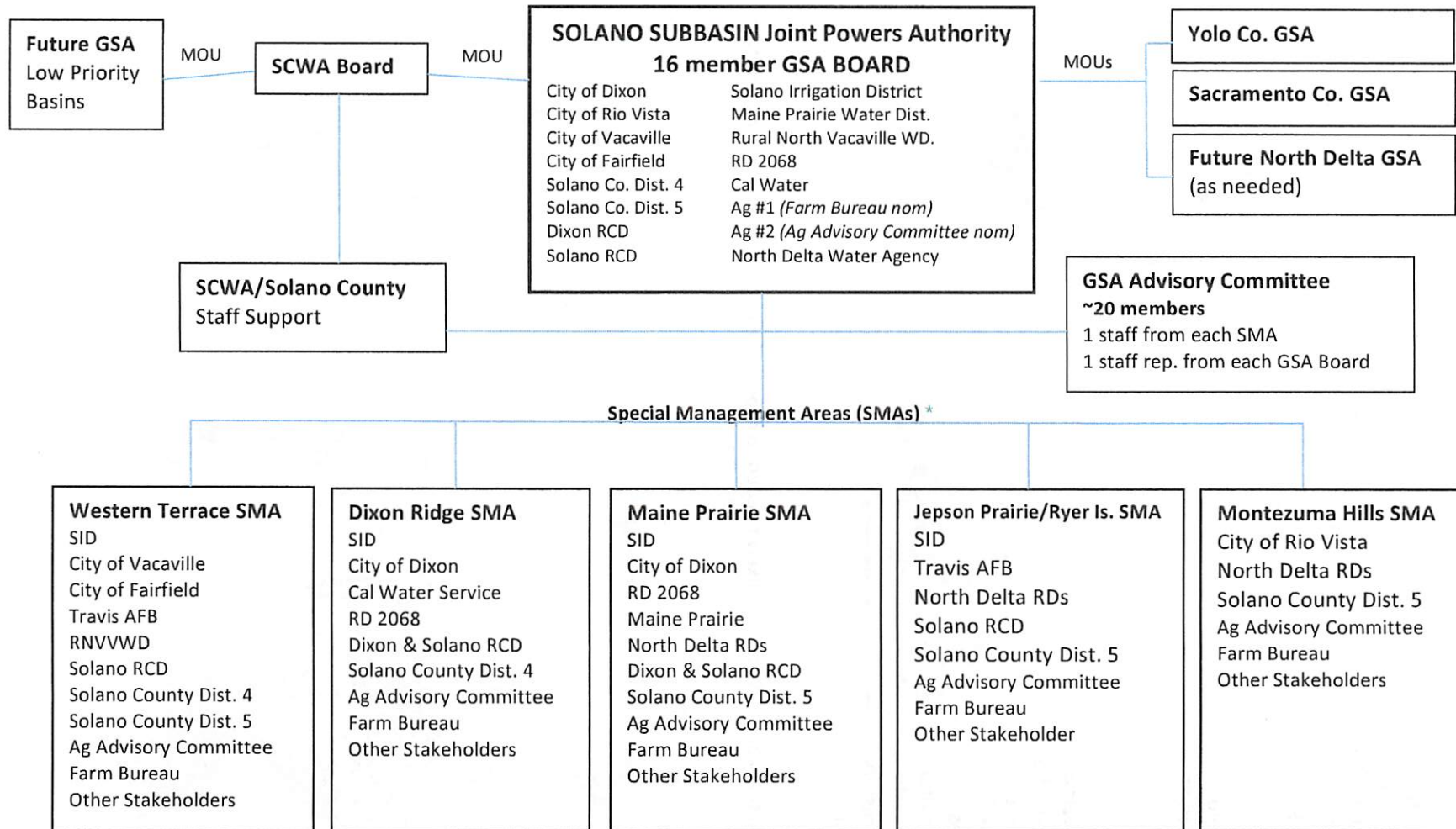
### GSA Governance Guiding Principles

1. Seven cardinal principles guide the formation of our GSA:
  - Compliance with the requirements of SGMA and subsequent law and regulations
  - Protection of groundwater resources in the Subbasin
  - Protection of existing reasonable and beneficial water uses
  - Protection of existing legal rights to groundwater
  - Assurance of full and fair representation of all groundwater stakeholders in the GSA
  - Respecting the value of local management of the distinct water regions in the County
  - Respecting existing riparian and permitted surface water rights of landowners and agencies, and existing water purchase agreements
2. We recognize that SGMA specifically does not change rights to water (including the rights of surface water users to groundwater recharge that results from the application of surface water) and we are committed to both protecting rights and reasonable and beneficial current water uses in the implementation of SGMA.
3. Every property owner in the Subbasin has access to the sustainable yield [as defined in SGMA and by the GSP] of the groundwater aquifer beneath their property, subject to the Groundwater Sustainability Plan.
4. Our approach is explicitly collaborative. We believe the best results for the GSA will come when we engage all stakeholders in an effective process that finds solutions that respect the various interests in our community.
5. Technical knowledge and resources will be critical to the success of the GSA. We agree to open and transparent sharing of data and knowledge between GSA partners and stakeholders.
6. Fact-based decision-making is central to our efforts.
7. We agree to address issues identified in the Subbasin starting with voluntary measures and only when those are documented to be insufficient to achieve sustainability, move on to the other powers granted to the GSA under SGMA and its subsequent laws and regulations.



8. Local management where possible will lead to the best outcomes, and therefore we agree to create and support a GSA with multiple management areas to enable those who are closest geographically to unique hydrological areas of the Solano Subbasin to be directly involved in groundwater management.
9. We recognize that SGMA is just one of many efforts to better manage water resources in the Subbasin and we intend to find the potential synergies between all these efforts to both reduce costs and maximize benefits to maximize knowledge and opportunities.
10. Cost for the operation of the GSA, the development of the GSP, and for implementation of groundwater management projects will be shared equitably between all the beneficiaries and stakeholders in the Subbasin.
11. We agree to maximize the groundwater recharge capacity of the Subbasin through the actions we promote within the GSA. Development of a GSP shall consider the merits and possible impacts of the sustainability of assigning credits for rechargers for their actions to improve groundwater resources both in quality and quantity.
12. We intend to consider the economic impacts of any GSA future actions and to minimize or mitigate adverse impacts where possible.
13. **Under Review:** It is acknowledged that groundwater recharge by some property owners or agencies may be able to locally remediate aquifer depletion in a subarea, much like groundwater recharge on a property or agency boundary where groundwater extraction is not occurring may cause "groundwater mounding". Therefore, should it be necessary for the GSA to impose groundwater extraction restrictions in a subarea of the Subbasin to remediate [or prevent(?)] undesirable results, those restrictions will recognize the groundwater surcharge made available by and accruing to the benefit of the recharging entity. The remaining groundwater will be proportionately applied to all lands within the subarea.

## Appendix A: Detailed GSA Governance Structure Proposal



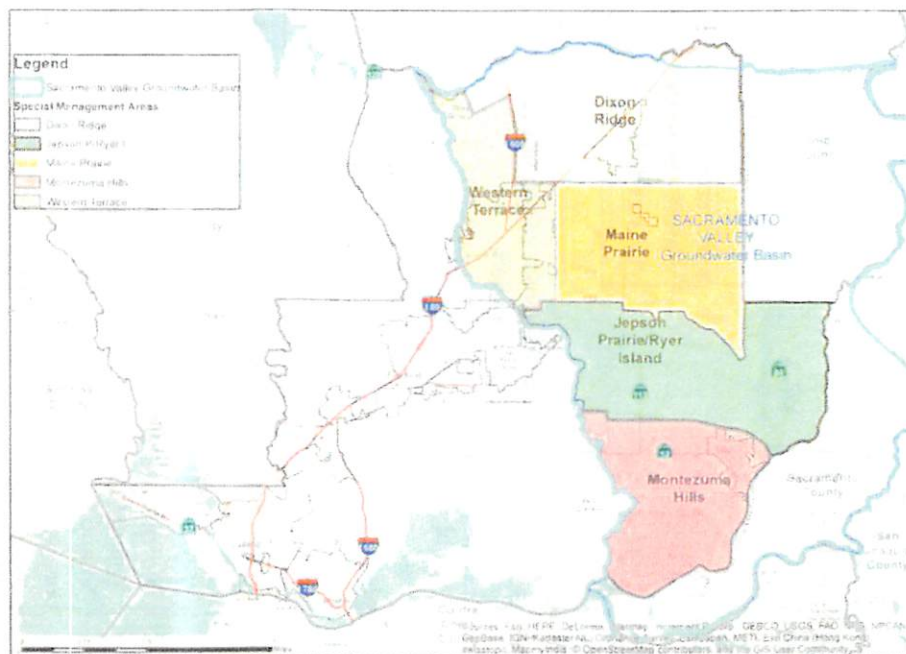
\* This diagram assumes a Five SMA model. See Appendix B for other options. The group discussed pros and cons for a five, four, and three SMA model, and agreed that further information about technical GSP plans would be needed to make the final decision on details of this aspect of the GSA structure.



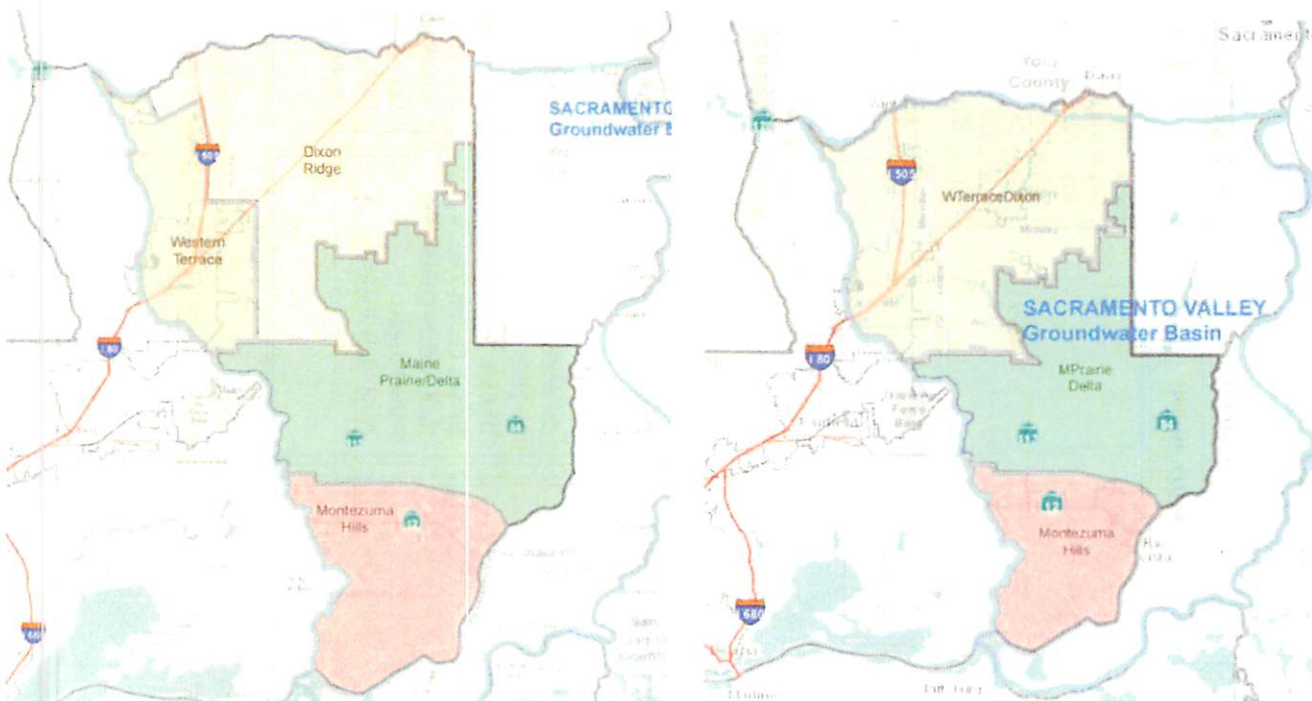
The **five SMA model** (right) is based on the ag areas in the [General Plan](#). It is also similar to the five recharge regions captured by a [UC Davis study on recharge](#).

The **four SMA model** (below left) is based on the different hydrologic regions in the Subbasin.

The **three SMA model** (below, right) is a simpler option that is also based on the different hydrologic regions in the Subbasin. The model was suggested for individuals who are wary about the financial costs and perhaps unnecessary complexity of having 4 or 5 SMAs.



Further technical information about GSP plans is likely needed to choose the appropriate boundary structure.



## Appendix C: Comparing MOA and JPA Legal Structures for the GSA



Agreement	Overview	Benefits	Potential Drawbacks
<b>Memorandum of Agreement</b>  <i>Contract between parties</i>	<ul style="list-style-type: none"> <li>Governed by state contract / common law</li> <li>Structure, content and purpose vary from non-binding to comprehensive agreements committing parties to specific actions and funding obligations</li> <li>Does not generally create separate entities</li> <li><b>Generally used for less formal or complex governance arrangements</b></li> </ul>	<u>JPA/MOA that is not a new authority</u> <ul style="list-style-type: none"> <li>Could provide less formal and simpler way for agencies to coordinate SGMA compliance</li> <li>Member agencies can retain some control through advisory board and budget</li> <li>Easier to dissolve if unsatisfactory</li> <li>May not require Brown Act compliance<sup>1</sup></li> <li>Could be used to coordinate among multiple GSAs</li> </ul>	<u>JPA/MOA that is not a new authority</u> <ul style="list-style-type: none"> <li>SGMA compliance could require a complex series of MOAs, so agencies would need to clearly describe how they will share new SMGA authorities without creating an entity to acts as the GSA</li> <li>Harder to ensure durable representation of non-public entities and stakeholders</li> <li>May be difficult to agree on lead agency to assume primary management role (local agencies may need to cede some control to lead agency)</li> <li>Legal uncertainty / potential for confusion: <i>SGMA lists an MOA as a GSA formation option. However, MOAs are not generally used to create separate legal entities and statutory language suggests that the GSA should be a clear legal entity</i></li> </ul>
<b>Joint Powers Agreement</b>  <i>Legal agreement between public agencies to jointly exercise powers common to each of them to accomplish shared goals</i>	<ul style="list-style-type: none"> <li>May or may not create a separate legal entity</li> <li>When a JPA does not create a separate legal entity, the JPA works as an operating agreement, or framework for parties to manage a program or project. The agreement: <ul style="list-style-type: none"> <li>Designates one agency or person to administer the terms of the agreement</li> <li>Sometimes creates advisory board</li> <li>Designates a person to perform certain management functions</li> </ul> </li> </ul>	<u>JPA, separate legal entity</u> <ul style="list-style-type: none"> <li>Flexible means to build a new regional agency/board to fit local circumstances</li> <li>Member agencies can retain control through governing board and budget</li> <li>Can delegate voting power to non-local agency entities/stakeholders<sup>2</sup></li> <li>Can allow for associate member participation without conferring voting power</li> <li>Can issue revenue bonds without voter approval</li> <li>Generally protects member agencies from a JPA's debts or other liabilities</li> </ul>	<u>JPA, separate legal entity</u> <ul style="list-style-type: none"> <li>Local agency parties would cede some control to the authority</li> <li>Some parties may be concerned about limited voting rights on board</li> <li>Additional "layer" of government: <ul style="list-style-type: none"> <li>Administration costs</li> <li>New government agency controlling groundwater</li> <li>Visibility and accountability</li> </ul> </li> <li>Could be difficult to keep together due to changes in local public support, new political leaders, or financial pressures</li> </ul>
<b>Joint Powers Authority/Agency</b>  <u>Separate legal entity created by a JPA, authorized through the Agreement to conduct business</u>	<ul style="list-style-type: none"> <li>Members must file Notice of Joint Powers Agreement with Secretary of State</li> <li>Does not require LAFCO approval</li> <li>Usually creates a governing board and advisory committee</li> <li>Designates a person to perform certain management functions</li> <li>Designates a treasurer (may be someone from a member agency)</li> <li>Must appoint auditor and arrange for an annual audit</li> </ul>	<u>JPA, separate legal entity</u> <ul style="list-style-type: none"> <li>Flexible means to build a new regional agency/board to fit local circumstances</li> <li>Member agencies can retain control through governing board and budget</li> <li>Can delegate voting power to non-local agency entities/stakeholders<sup>2</sup></li> <li>Can allow for associate member participation without conferring voting power</li> <li>Can issue revenue bonds without voter approval</li> <li>Generally protects member agencies from a JPA's debts or other liabilities</li> </ul>	<u>JPA, separate legal entity</u> <ul style="list-style-type: none"> <li>Local agency parties would cede some control to the authority</li> <li>Some parties may be concerned about limited voting rights on board</li> <li>Additional "layer" of government: <ul style="list-style-type: none"> <li>Administration costs</li> <li>New government agency controlling groundwater</li> <li>Visibility and accountability</li> </ul> </li> <li>Could be difficult to keep together due to changes in local public support, new political leaders, or financial pressures</li> </ul>

<sup>1</sup> However, Brown Act compliance is probably required if MOA creates a governing board that acts like a separate entity.

<sup>2</sup> During the August GSAG meeting, an initial conversation regarding JPA or MOA formation indicated a preference for a JPA that creates a separate legal entity. Without creating a separate legal entity, non-agency individuals and entities will be unable to be ensured a durable voting role on the GSA Board.



## Appendix D: Learning from Other Subbasins: Sample GSA Structure & Decision-Making Models



GSA Name	# of Board Members	Committees	Voting and Decision-Making
<a href="#">Mid-Kaweah Groundwater Subbasin GSA</a>  <i>Final JPA</i>	-6 Board Members (2 from the Tulare Irrigation District, who are considered Principal Directors) -1 Alternate Director who may participate when a Principal Director is absent -Additional members are allowed to join only by unanimous vote by existing members	-Advisory Committee established for the purpose of soliciting information from the other Kaweah Agencies and stakeholders utilizing groundwater; membership is at the discretion of the Board -Management Committee established to oversee all activities undertaken in pursuit of the goals and objectives of the GSA, and is responsible for the approval of expenditures, and may establish a Technical Advisory Subcommittee for the purpose of assisting with technical aspects of GSP development and Act implementation -Management Committee is comprised of one staff person from each of the Members	-50% of the BOD plus one constitutes a quorum in order to conduct business -Simple majority of the quorum shall be required for the adoption of a resolution, ordinance, contract authorization or other action of the Board -Several actions require unanimous vote, including: adoption of budget modifications, imposition of fees, approval of a GSP and others
<a href="#">Santa Cruz Mid-County GSA</a>  <i>Final JPA</i>	-11 Board Members (2 members each from the two Water Districts, City and County by their respective resolutions, and 3 representatives of private well owners, nominated and then appointed by majority vote of the eight public agency Member Directors) -Each agency Member may have an Alternate to act as a substitute, and the private well owners share an Alternate Director	-The BOD may appoint one or more advisory committees or establish standing or ad hoc committees to assist in carrying out the objectives of the GSA -The BOD shall determine the purpose, need and necessary qualifications for individuals appointed to these committees -Each committee shall include a Director as the chair thereof -Other members of committees may be constituted by such individuals approved by the BOD, and no committee shall have any authority to act on behalf of the GSA	-A quorum consists of a majority of Directors, plus one Director -Each Director is allotted 1 vote -Affirmative decisions require a simple majority -Unanimous votes are required for capital expenditure of \$100,000+, annual budget, GSP adoption and amendment, levying of assessments or fees, issuance of indebtedness, and any stipulation to resolve litigation concerning groundwater rights
<a href="#">North Kings GSA</a>  <i>DRAFT JPA</i>	-7 Board Members, each with an Alternate -1 of the seats is a rotating seat shared by 3 water districts -1 seat is an at-large seat, appointed by a vote of the other BOD Members	-The BOD may establish standing committees and ad hoc committees as it deems necessary, and the BOD shall establish membership of those committees	-Unanimous vote required for adoption or amendments to the GSP, fee assessments, and amendments to the JPA -Five affirmative votes required for other actions including incurring debts and liabilities, adoption or revisions to policies of the Authority, GSA enforcement, budget allocation and member removal from the GSA
<a href="#">Eastern San Joaquin GSA</a>	- Process is still in the works, but as of August 2016, board has 23	<i>Their JPA does not mention advisory committees</i>	-1 vote per member, and voting is not weighted based on the member's size or groundwater extraction

<i>Final JPA</i>  (See also: <a href="#">Policy Narrative Brief</a> )	member agencies consisting of cities, county, and water districts - Note this JPA was developed by an attorney committee, not the staff representative group		-Majority will constitute a quorum, and business is conducted with a majority vote -Supermajority vote will be required for certain actions, including budget approval, levying taxes, expenditure of funds, establishment of members' percentage obligations for payment, and GSP approval
<a href="#">Indian Wells Valley GSA</a>  <i>DRAFT JPA</i>  *Meetings are public	-5 General Members (1 vote each) -2 Associate Members (Non-voting)	-Advisory Committee established to provide recommendations on various activities of the Authority -Advisory Committee formed to ensure the meaningful participation of gw users in the basin in the development of the GSP	-General Members each have one voting Director seat on the Board -Board business requires a majority vote of the Directors and the concurrence of no less than two of the Directors from three local areas -Adoption of GSP will require super majority vote

**Notes on how others are addressing Special Management Areas:**

- Of the above GSAs, only Eastern San Joaquin included information about Special Management Areas: "Management Area shall mean the area within the boundaries of a Member or group of Members to be managed by that Member or group of Members under any GSP adopted by the Authority"
  - Powers Reserved to Members: Approve the portion, section or chapter of the GSP adopted by the Authority as applicable within the Member's boundaries or the Management Area managed in whole or in part by such Member or GSA of which it is a part;
  - Special Projects: Fewer than all of the Members may enter into a special project agreement to achieve any of the purposes of activities authorized by this JPA, and to share in the expenses of such special project, for example, to share in funding infrastructure improvements within the boundaries of only those Members and their Management Areas.

**Notes on how others are addressing funding:**

- Santa Cruz includes a section on Agency Funding and Contributions which states the Board will maintain a funding account, and may also issue assessments for contributions by the Members in the amount and frequency determined necessary by the Board.
- North Kings GSA estimates initial costs to be between \$100,000-\$200,000 over a three year period and will fund the development of the GSP and the initial start-up costs of the JPA. There will be a financial cost commitment to be a member with voting rights on the JPA.
- Eastern San Joaquin states upon execution of this Agreement, each Member shall contribute \$5,000 as an initial contribution.

**Notes on how others are addressing the question of agencies withdrawing from the Authority:**

- Mid-Kaweah: "Should a Member choose to withdraw from the Authority in accordance with the terms of this Agreement, that Member expressly retains the right to serve as the GSA for the groundwater basin underlying its jurisdictional boundaries." This same JPA also states that member agencies are responsible within their own jurisdictions for the implementation of the GSP.
- North Kings: "Any member may withdraw from the GSA by giving sixty (60) days written notice of its election to do so. Withdrawing cannot impair any standing contracts, resolutions, or other obligations of the GSA currently in effect. If there is a disagreement about whether withdrawal with cause impairment, the BOD takes a majority vote."..."Should a member choose to withdraw from the GSA, that member expressly retains the right to serve as the GSA for the portion of the groundwater basin underlying its jurisdictional boundaries to the extent permitted by SGMA." Members remain responsible for their portion of adopted fiscal year budget.
- Indian Wells: Similar to North Kings, this JPA requires a 45 day written notice period and fulfillment of financial obligations. It does not include information about withdrawing members' impact on GSA operations, or about members' ability to maintain their authority over their jurisdiction or creation of a separate GSA.