

FOX CANYON GROUNDWATER MANAGEMENT AGENCY

A STATE OF CALIFORNIA WATER AGENCY



BOARD OF DIRECTORS

Eugene F. West, Chair, Director, Camrosa Water District
David Borchard, Vice Chair, Farmer, Agricultural Representative
Steve Bennett, Supervisor, County of Ventura
Charlotte Craven, Councilperson, City of Camarillo
Robert Eranio, Director, United Water Conservation District

EXECUTIVE OFFICER

Jeff Pratt, P.E.

NOTICE OF MEETING

NOTICE IS HEREBY GIVEN that the Fox Canyon Groundwater Management Agency (FCGMA) will hold an **Operations Committee Meeting** at **2:00 p.m. on Monday, August 06, 2018** in the **Atlantic Conference Room**, at the Ventura County Government Center, Hall of Administration, at **800 South Victoria Avenue, Ventura, California**.

FCGMA OPERATIONS COMMITTEE MEETING AGENDA

August 06, 2018

Members: Chair Steve Bennett
Co-Chair Robert Eranio

A. Call to Order / Introductions

B. Public Comments – Audience members may speak about FCGMA-related matters not on today's Agenda.

C. Approval of Minutes – Approve the minutes of the July 25, 2018 Operations Committee Special meeting.

D. NRCS Grant Implementation – An update on the efforts of AMI implementation and Phase 2 of the Water Market.

E. Water Supply and Infrastructure Projects – Continued discussion from July 25, 2018, meeting regarding consideration of staff recommendations for selection of submitted projects for inclusion in the Groundwater Sustainability Plan model forecasting of sustainable yield.

F. Adjourn Operations Committee Meeting

NOTICES

The FCGMA Board strives to conduct accessible, orderly, and fair meetings where everyone can be heard on the issues. The Board Chair will conduct the meeting and establish appropriate rules and time limitations for each item. The Board can only act on items designated as Action Items. Action items on the agenda are staff proposals and may be modified by the Board as a result of public comment or Board member input. Additional information about Board meeting procedures is included after the last agenda item.

Administrative Record: Material presented as part of testimony will be made part of the Agency's record, and 10 copies should be left with the Board Clerk. This includes any photographs, slides, charts, diagrams, etc.

ADA Accommodations: *Persons who require accommodation for any audio, visual, or other disability in order to review an agenda or to participate in the Board of Directors meeting per the Americans with Disabilities Act (ADA), may request such accommodation in writing addressed to the Clerk of the FCGMA Board, 800 South Victoria Avenue, Location #1610, Ventura, CA 93009-1610, or via telephone by calling (805) 654-2014. Any such request should be made at least 48 hours prior to the meeting so staff can make the necessary arrangements.*

Availability of Complete Agenda Package: *A copy of the complete agenda package is available for examination at the FCGMA office during regular working hours (8:00 a.m. to 5:00 p.m. Monday through Friday) beginning five days before the Board meeting. Agenda packet contents are also posted on the FCGMA website as soon as possible, and left there for archival retrieval in case reference is needed on previously considered matters. Questions about specific items on the agenda should be directed to the Agency's Executive Officer.*

Continuance of Items: *The Board will endeavor to consider all matters listed on this agenda. However, time may not allow the Board to hear all matters listed. Matters not heard at this meeting may be carried over to the next Board meeting or to a future Board meeting. Participating individuals or parties will be notified of the rescheduling of their item prior to the meeting. Please contact the FCGMA staff to find out about rescheduled items.*

Electronic Information and Updates: *Visit (for home page information) or Facebook (for meeting updates). Information available online includes the Board's meeting schedule, a list of the Board members and staff, weather station data, general information, and various Agency forms. If you would like to speak to a staff member, please contact the Clerk of the Board at (805) 654-2014.*

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MINUTES

Minutes of the Fox Canyon Groundwater Management Agency's (FCGMA) Operations Committee Special meeting held **Wednesday, July 25, 2018 at 8:00 a.m.** in the Atlantic Conference Room at the Ventura County Government Center, Hall of Administration, 800 South Victoria Avenue, Ventura California.

Members: Chair Steve Bennett
Vice Chair Robert Eranio

A. Call to Order

Chair Bennett called the meeting to order at 9:00 a.m.

In attendance were: (1) Steve Bennett, FCGMA Operations Committee Chair; (2) Robert Eranio, FCGMA Operations Committee Vice Chair; (3) Arne Anselm, WPD, Deputy Director; (4) Kim Loeb, FCGMA, Groundwater Manager; (5) Keely Royas, FCGMA Clerk of the Board; (6) Kathleen Riedel, Groundwater Specialist; (7) Susan Pan, Ventura County Water Works District (VCWWD); (8) Ian Pritchard, Camrosa; (9) Thien Ng, City of Oxnard; (10) Nancy Broschart, City of Oxnard; (11) John Lindquist, United Water Conservation District (UWCD); (12) Mike Ellis, UWCD; (13) Bob Siemak, UWCD; (14) Maryann Bral, UWCD; (15) Tony Emmeret, UWCD; (16) Jennifer Tribo, City of Ventura; (17) Curtis Hopkins, Hopkins Groundwater Consultants (HGC); (18) Lucia McGovern, City of Camarillo; (19) Atharva Nanodlar, City of Camarillo.

B. Public Comments

There were no public comments.

C. Water Supply and Infrastructure Projects

Kim Loeb presented an overview of what was discussed at the last Operations Committee meeting and the item's objective to identify and prioritize the projects for inclusion in the Groundwater Sustainability Plan (GSP) future scenario modeling.

Mr. Loeb pointed out that one of the spreadsheet of projects had been updated and that the blue columns represent projects that have passed through the process and will be recommended to the Board after the Operations Committee finishes its review and recommends that it be passed on to the Board. The other spreadsheet includes projects that would not be recommended to the Board for inclusion in the future scenario modeling. He stated that many of them simply do not have enough information and that they could possibly be included late on in a Groundwater Sustainability Plan (GSP) Update.

Mr. Loeb stated that at the last meeting there were some policy issues identified and that staff was instructed to bring the issues back in a framed way for discussion. The first policy issue discussed

was replenishment fees. Mr. Loeb stated that the Agency needs some guidance on the amount that the replenishment fees should be. Vice Chair Eranio stated that most likely the bracket for the fees will be around \$300 an acre foot (AF)

The second and third issues discussed were allocation purchases and temporary land fallowing. Chair Bennett asked if the water purchases would be long-term or short-term purchases. Mr. Loeb said that the ones in the seawater intrusion area would be short-term.

Mr. Lindquist asked for a scale on land fallowing. Mr. Loeb stated that a scale was not part of the project proposal and that the Board would determine that based on how much money should be spent.

Lastly, the Arroyo Las Posas water purchase was discussed. Chair Bennett stated that they are not ready to commit to purchasing Arroyo Las Posas water and that more research needs to be done on the water quality standards.

D. Adjourn Operations Committee Meeting

Chair Bennett adjourned the Operations Committee meeting at 8:58 a.m.

DRAFT

Projects by Basin	Sponsoring Agency	Policy Issues										Staff evaluation of impact on Sustainability Indicators / Undesirable Results										
		In-lieu to specific areas focused on aquifers/pumpers vs. recharge	Water Purchases/Imported	Allocation Purchases - Following vs in-lieu water purchase	Type of Project	Water Supply Source	Annual Increase in Sustainable Yield (AFY)	Proposed Project Groundwater Extractions (AFY)	Project Yield (AFY) (per submittal)	Replaces import water	Associated with credit program to pump groundwater	Total Capital Cost/ Project Cost to Bring On Line	Annual Operations and Maintenance Cost	Funding Source(s)	Chronic Lowering of Groundwater Levels	Reduction of Groundwater	Seawater Intrusion	Degraded Water Storage	Land Subsidence	Depletions of Interconnected Surface Water	Notes: (Combination of submitter, TAG and staff notes)	
Las Posas Valley Basin																						
Purchase of Imported Water from Calleguas Municipal Water District (CMWD) for Basin Replenishment	CMWD	In-lieu	Import	In-lieu	WS	Imported Water	No limit most years		No limit most years			Part of CMWD rate	Depends on quantity (\$1,528 per AF (2018))	Replenishment Fee	+	+	NA	= / + ?	+	+	Only available to big water systems / suppliers within CMWD annex area. Tier 2 rate will apply if Tier 1 volume is exceeded.	
Arroyo Las Posas Arundo Removal	The Nature Conservancy (TNC)	Recharge			WS	Avoided Evapotranspiration (ET)	Up to 2,680 AFY		up to 2,680			\$7.4 million (\$300 per AF over 25 yrs)	approx. \$200 per AF	FCGMA and Habitat Grants	+	+	NA	+	+	+	Estimates of arundo evapotranspiration rates vary widely.	
Arroyo Las Posas Water Acquisition	The Nature Conservancy ("May be more appropriate to co-sponsor with the FCGMA")	Recharge	Surface water/ Imported		WS	Avoid loss of inflow to basin	Approx. 500 to 2,000 AFY (3,000 AFY minus 1,000 to 2,500 AFY of ET losses)		approx. 8,000			\$0	To be negotiated	FCGMA and Habitat Grants	+	+	NA	-	+	+	Simi has a minimum discharge requirement. Volumes are based on water in excess of minimum required discharge. Care must be taken not to double count minimum required discharge when evaluating Sustainable Yield.	
Oxnard Subbasin																						
Projects related to the GREAT Program																						
GREAT Program Advanced Water Purification Facility (AWPF)	City of Oxnard	In-lieu and/ or recharge	Advanced treated water	In-lieu	WS	New recycled water	4,600 AFY current facility and an additional 6,000 AFY for facility expansion. Increase in SY is that volume used to recharge the groundwater basin including replaced groundwater usage which did not exceed allocation and pumpback credits were not issued.		4,600 available for SY	Yes ¹	Yes	\$90 to \$100 million (\$3,100 per AF)	\$8 million (\$400 per AF)	City Bonds /Federal Grants	+	+	+	+	+	+	NA	Treated wastewater for irrigation. Agricultural users that receive treated water and document that it replaced groundwater extraction generate credits for the City to pump groundwater to replace water delivered.
GREAT Program AWPF Expansion	City of Oxnard	In-lieu	Advanced treated water	In-lieu	WS	New recycled water			6,000 available for SY	Yes ¹	?	\$16.6M (\$1,900 per AF)	\$440 per AF	TBD	+	+	+	+	+	+	NA	
Riverpark-Saticoy GRRP Recycled Water Project	United Water Conservation District (UWCD)	Recharge	Advanced treated water		Infrastruc. & WS	New recycled water	[This volume is included in AWPF annual increase to SY]		5,000+ from AWPF			\$6.4 million (approx. \$30 per AF)	\$5 to 7.5 million (approx. \$1,000 to 1,500 per AF)	UWCD Zone B or FCGMA	+	+	+	+	+	+	NA	Recharge City of Oxnard's recycled AWPF water in UWCD's Saticoy basins. The estimated \$30/AF for capital costs is based on 4,500 AFY over 50 years to pay for the estimated \$6M in construction costs (pipeline and lift stations). The Annual O&M Cost includes an estimate of the cost to obtain water of \$900/AF.
Other Projects																						
Freeman Expansion Project	UWCD	In-lieu and/ or recharge	Surface water	In-lieu	WS	Santa Clara River ²	2,000 to 3,000 AFY (not an increase - avoided loss of diversion capacity)		7,400			\$31 million (\$4189 per AFY)	\$700,000 (\$95 per AF)	Rate Payers, Grants	+	+	+	+	+	+	NA	Avoid loss of water supply.
Temporary Agricultural Land Fallowing Project	Oxnard/ PV Ag Owners, Inc.	Recharge	Allocation	Fallowing	MA	Avoid pumping	[Management action to decrease pumping relative to current conditions]		TBD-modeling needed			\$0	\$1,200 to \$1,800 per AF	Replenishment Fee	+	+	+	=	+	+	NA	Demand Reduction. Project parameters need to be identified for modeling.
Pleasant Valley Basin																						
Temporary Agricultural Land Fallowing Project	Oxnard/ PV Ag Owners, Inc.	Recharge	Allocation	Fallowing	MA	Avoid pumping	[Management action to decrease pumping relative to current conditions]		TBD-modeling needed			\$0	\$1,200 to \$1,800 per AF	Replenishment Fee	+	+	NA	=	+	+	NA	Demand Reduction. Project parameters need to be identified for modeling.

Notes:
 1. Amount available to non-City users is to be determined.
 2. Avoided loss of Santa Clara River diversion capacity.

Technical Advisory Group and staff analysis
 TBD = To be determined
 NA = Not Applicable
 WQ= Water Quality
 WS= Water Supply
 Infrastruc.= Infrastructure
 MA= Management Action

+	Positive Impact
-	Negative Impact
+ / - ?	Possible positive or negative impact. To be determined
?	Insufficient information. Impact not determined
=	No Impact
NA	Not Applicable

DRAFT FOR PURPOSE OF BOARD DISCUSSION FOR FUTURE SUSTAINABILITY PROJECTIONS

Estimate of Annual Funding Available of Projects During First Five Years

Basin/Subbasin/ Management Area	Reported Extractions (AF) ¹	Estimated Fees by Basin Based on Fee per Acre-Foot (AF) of Groundwater Extracted						
		\$100	\$150	\$200	\$250	\$300	\$350	\$400
LPV	36,580	\$3,657,979	\$5,486,968					
ELPV	22,304	\$2,230,393	\$3,345,590					
WLPV	14,276	\$1,427,586	\$2,141,378					
OXN	70,904			\$14,180,830	\$17,726,038	\$21,271,246	\$24,816,453	\$28,361,661
PV	14,443			\$2,888,515	\$3,610,643	\$4,332,772	\$5,054,901	\$5,777,029

Note:

1. Reported extractions for the period 2016-2 to 2017-1.

DRAFT FOR PURPOSE OF BOARD DISCUSSION FOR FUTURE SUSTAINABILITY PROJECTIONS

Estimate of Project Annual Cost and Water Supply for First Five Years

Basin/Subbasin/ Management Area	Reported Extractions (AF) ¹	Estimated Fee per AF	Estimated Annual Fees Collected	Estimated Annual Fees Expended	Proposed Project	Cost per AF	AF of Water
LPV	36,580						
ELPV	22,304	\$150	\$3,345,590				
				\$0	Purchase of imported water from CMWD	\$1,528	
				\$1,000,000	Arroyo Las Posas Arundo Removal ²	\$500	2,000
				\$2,345,590	Arroyo Las Posas Water Acquisition ³ (cost not known)	\$2,000	1,173
					Total		3,173
WLPV	14,276	\$150	\$2,141,378				
				\$2,141,378	Purchase of imported water from CMWD	\$1,528	1,401
OXN	70,904	\$300	\$21,271,246				
				\$7,000,000	GREAT AWPf	\$3,500	2,000
				\$0	GREAT AWPf Expansion	\$2,340	
				\$6,885,000	RiverPark-Saticoy GRRP Recycled Water Project ⁴	\$1,530	4,500
				\$6,426,000	Freeman Diversion Expansion ⁵	\$4,284	1,500
				\$954,000	Temporary Land Fallowing	\$1,800	530
				\$21,265,000	Total	Total	8,530
PV	14,443	\$300	\$4,332,772				
				\$4,332,772	Temporary Land Fallowing	\$1,800	2,407

Notes:

1. Reported extractions for the period 2016-2 to 2017-1.
2. Combined Total Capital Cost with 25 -year amortization and Operations & Maintenance Cost. Project estimated increase in sustainable yield is up to 2,680 AFY.
3. Cost not known. Used an estimate of \$2,000 for the purpose of the discussion.
4. Combined Total Capital Cost with 50 -year amortization based on 4,500 AF per year, and Operations & Maintenance Cost (assuming a water acquisition cost of \$900 per AF)
5. Assumed 50% to 75% funding with Replenishment Fee.