SAN GORGONIO PASS WATER AGENCY
1210 Beaumont Avenue, Beaumont, CA
Board of Directors Meeting
Agenda
April 16, 2018 at 1:30 p.m.

Teleconference Location: Hampton Inn & Suites
Business Center Room
3450 Creek Pointe Room
East Pointe, GA

1. **Call to Order, Flag Salute, Invocation and Roll Call**

2. **Statement Regarding Teleconferencing**
   -This meeting is also being held at a Teleconference Location which has been identified on the agenda.

3. **Adoption and Adjustment of Agenda**

4. **Public Comment:** Members of the public may address the Board at this time concerning items relating to any matter within the Agency's jurisdiction. To comment on specific agenda items, please complete a speaker's request form and hand it to the board secretary. Speakers are requested to keep their comments to no more than five minutes. Under the Brown Act, no action or discussion shall take place on any item not appearing on the agenda, except that the Board or staff may briefly respond to statements made or questions posed for the purpose of directing statements or questions to staff for follow up.

5. **Consent Calendar:** If any board member requests that an item be removed from the Consent Calendar, it will be removed so that it may be acted upon separately.
   A. Approval of the Minutes of the Regular Board Meeting, March 2, 2018* (p. 3)
   B. Approval of the Minutes of the Engineering Workshop, March 9, 2018* (p. 7)

6. **Reports:**
   A. General Manager's Report
      1. Operations Report
      2. Water Supply Update* (p. 9)
      3. Update on California WaterFix* (p. 14)
      4. General Agency Updates
   B. General Counsel Report* (p. 31)
   C. Directors' Reports

7. **New Business:**
   A. Consideration and Possible Action to Approve USGS Cooperative Agreement to Drill Three Monitoring Wells* (p. 32)

8. **Topics for Future Agendas**

9. **Announcements:**
   A. Finance & Budget Workshop, April 23, 2018 at 1:30 p.m.
   B. San Gorgonio Pass Regional Water Alliance, April 25, 2018 at 5:00 p.m. – Banning City Hall
   C. Regular Board Meeting, May 7, 2018 at 1:30 p.m.

10. Closed Session (2 Items)

A. CONFERENCE WITH REAL PROPERTY NEGOTIATORS
Pursuant to Government Code section 54956.8
Property: Potential water rights/supplies offers from the City of Ventura
Agency negotiator: Jeff Davis, General Manager
Negotiating parties: Lynn Takaichi
Under negotiation: price and terms of payment

B. CONFERENCE WITH REAL PROPERTY NEGOTIATORS
Pursuant to Government Code Section 54956.8
Property: Potential water exchange with Casitas Municipal Water District
Agency negotiator: Jeff Davis, General Manager
Negotiating parties: Casitas Municipal Water District, Mike Flood, General Manager
Under negotiation: price and terms of payment

11. Adjournment

***Information included in Agenda Packet**

(1) Materials related to an item on this Agenda submitted to the Board of Directors after distribution of the agenda packet are available for public inspection in the Agency's office at 1210 Beaumont Avenue, Beaumont during normal business hours. **(2)** Pursuant to Government Code section 54957.5, non-exempt public records that relate to open session agenda items and are distributed to a majority of the Board less than seventy-two (72) hours prior to the meeting will be available for public inspection at the Agency's office, located at 1210 Beaumont Avenue, Beaumont, California 92223, during regular business hours. When practical, these public records will also be made available on the Agency's Internet Web site, accessible at: www.sgpwa.com **(3)** Any person with a disability who requires accommodation in order to participate in this meeting should telephone the Agency (951 845-2577) at least 48 hours prior to the meeting in order to make a request for a disability-related modification or accommodation.

SAN GORGONIO PASS WATER AGENCY
1210 Beaumont Avenue, Beaumont, California 92223
Minutes of the
Board of Directors Meeting
April 2, 2018

Directors Present: David Fenn, President
Ron Duncan, Vice President
Lenny Stephenson, Treasurer
Blair Ball, Director
David Castaldo, Director
Stephen Lehtonen, Director
Michael Thompson, Director

Staff Present: Jeff Davis, General Manager
Jeff Ferre, General Counsel
Thomas Todd, Finance Manager
Cheryle Stiff, Executive Assistant

1. **Call to Order, Flag Salute, Invocation, and Roll Call:** The meeting of the San Gorgonio Pass Water Agency Board of Directors was called to order by Board President Fenn at 1:30 p.m., April 2, 2018 in the Agency Boardroom at 1210 Beaumont Avenue, Beaumont, California. President Fenn led the Pledge of Allegiance to the flag. Director Thompson gave the invocation. A quorum was present.

2. **Adoption and Adjustment of Agenda:** *President Fenn asked if there were any adjustments to the agenda.* General Manager Davis stated there were no adjustments to the agenda. There being none, the agenda was adopted as published.

3. **Public Comment:** *President Fenn asked if there were any members of the public that wished to make a public comment on items that are within the jurisdiction of the Agency that are not on today's agenda.* Libi Uremovic commented on the Agency's Nickel water purchase.

4. **Consent Calendar:**
   A. Approval of the Minutes of the Regular Board Meeting, March 19, 2018
   B. Approval of the Minutes of the Finance and Budget Workshop, March 26, 2018
   C. Approval of the Finance and Budget Workshop Report, March 26, 2018

   President Fenn asked for a motion on the Consent Calendar. Director Stephenson made a motion, seconded by Director Duncan, to adopt the consent calendar as presented. Motion passed 7-0.

5. **Reports:**

A. General Manager's Report:

(1) Operations Report: (a) SWP Water Deliveries: As of 6:00 am today the Agency is back online delivering water after a month long shutdown in March. **(b) Pumping:** The work schedule for pumping at Crafton is two 9-hour shifts per day, pumping for 18 hours a day. Cherry Valley Pump Station will be pumping 24/7. There is 8041 acre-feet currently available to deliver. The Agency is in negotiations to purchase additional water from other sources this year.

(2) Water Supply Conditions: General Manager Davis reviewed with the Board DWR reports on precipitation for the Northern Sierra, San Joaquin Valley, and Tulare Lake Basin. He also reviewed the California's snow water content, reservoir conditions, and storage levels.

(3) General Agency Updates: (a) California WaterFix: General Manager Davis stated that the CWF is moving forward; there may be ground breaking sometime this year. (b) SGMA Update: The next meeting for the San Gorgonio Pass GSA is scheduled for next week. (c) The second bi-monthly manager's meeting was held on March 20th. Topics of discussion included issues that the Conservation and Education Committee wanted to be discussed, water rates, and a potential extension of service to Cabazon. Next meeting is scheduled for May.

B. General Counsel Report: General Counsel Jeff Ferre stated that he had nothing to report.

C. Directors Reports: (1) President Fenn remarked that the he made a couple of committee changes. Director Thompson will no longer be on the Finance and Budget committee, he is now the Vice Chair of the Strategic Planning Committee. President Fenn is no longer on the Strategic Planning Committee; he is now the Vice Chair of the Finance and Budget Committee.

6. New Business:

A. Consideration of Election of Local Agency Formation Committee (LAFCO) and County Oversight Board Election: A staff report, ballot instructions, and two letters of support, (one for Phil Williams and the other for Angel Garcia), an email (Phil Williams), a letter of support for Russ Martin written by Arden Wallum (General Manager of MSWD), and a bio from Russ Martin were included in the agenda packet. President Fenn called upon Angel Garcia for his public comment. Mr. Garcia provided his background information and a brief description of what can be expected of him as a LAFCO Board member. President Fenn explained the ballot process. The three candidates are, Phil Williams (Director LAFCO and EVMWD), Angel Garcia (Rancho California Water District), and David Hoffman (BCVWD). Director Ball made a motion, seconded by Director Castaldo, to elected Hoffman 1, Garcia 2, and Williams 3.

After discussion, President Fenn requested a roll call vote.

Roll Call:	***Aye***	***Noes***	***Absent***	***Abstain***
Director Stephenson	☐	☒	☐	☐
Director Ball	☒	☐	☐	☐
Director Lehtonen	☐	☒	☐	☐
Director Castaldo	☒	☐	☐	☐
Director Duncan	☐	☒	☐	☐
Director Thompson	☐	☒	☐	☐
President Fenn	☐	☒	☐	☐

Motion failed 5-2, with Directors Stephenson, Lehtonen, Duncan, Thompson and President Fenn opposed.

Director Stephenson made motion, seconded by Director Duncan, to elect Garcia 1, Hoffman 2, and Williams 3.

President Fenn requested a roll call vote.

Roll Call:	***Aye***	***Noes***	***Absent***	***Abstain***
Director Stephenson	☒	☐	☐	☐
Director Ball	☒	☐	☐	☐
Director Lehtonen	☒	☐	☐	☐
Director Castaldo	☒	☐	☐	☐
Director Duncan	☒	☐	☐	☐
Director Thompson	☒	☐	☐	☐
President Fenn	☒	☐	☐	☐

Motion passed 7-0.

President Fenn stated that there are five candidates for the RDA Oversight Board. Director Ball made a motion, seconded by Director Duncan, to elect Russ Martin. Motion passed 7-0

B. Correspondence with Beaumont Cherry Valley Water District: The Board had requested to see a copy of a letter that was sent by BCVWD to the Agency dated March 1, 2018, regarding the SWP water deliveries to Noble Creek Recharge Facility, and a copy of the response letter from General Manager Davis dated March 22, 2018. General Manager Davis noted that he and General Manager Doug Headrick (SBVMWD) met to compose the response letter. He remarked that in addition to the letters he met with Mr. Jaggers to discuss the issues raised.

7. Topics for Future Agendas: Director Ball requested engineering updates pertaining to the Noble Creek turnout enlargement. Director Thompson requested updates on the Beaumont Avenue Recharge Facility.

8. Announcements:

A. Engineering Workshop, April 9, 2018 at 1:30 p.m.
B. Regular Board Meeting, April 16, 2018 at 1:30 p.m.
C. Finance & Budget Workshop, April 23, 2018 at 1:30 p.m.

9. Closed Session (1 Item) – President Fenn asked General Manager Davis if he anticipates any reportable action. General Manager Davis stated that he does not anticipate any reportable action.

President Fenn recessed the meeting to closed session at – Time: 2:04 p.m.

A. CONFERENCE WITH REAL PROPERTY NEGOTIATORS
Pursuant to Government Code Section 54956.8
Property: Potential transfer of State Water Project rights/supplies among State Water Project Contractors
Agency negotiator: Jeff Davis, General Manager
Negotiating parties: Kern County Water Agency, Curtis Creel, General Manager

The meeting reconvened to open session at: Time: 2:34 pm

General Counsel Ferre stated that there was no action taken during closed session that is reportable under the Brown Act.

10. Adjournment Time: 2:34 pm

Draft – Subject to Board Approval
Jeffrey W. Davis, Secretary of the Board
cmr

SAN GORGONIO PASS WATER AGENCY
1210 Beaumont Avenue, Beaumont, CA 92223
Minutes of the
Board of Directors Engineering Workshop
April 9, 2018

Directors Present: David Fenn, President
Blair Ball, Director
David Castaldo, Director
Ron Duncan, Director
Steve Lehtonen, Director
Leonard Stephenson, Director
Michael Thompson, Director

Staff Present: Jeff Davis, General Manager
Jeff Ferre, General Counsel
Cheryle Stiff, Executive Assistant

1. Call to Order, Flag Salute and Roll Call. The Engineering workshop of the San Gorgonio Pass Water Agency Board of Directors was called to order by Director Duncan at 1:30 p.m., April 9, 2018 in the Agency Board room at 1210 Beaumont Avenue, Beaumont, California. Director Duncan led the Pledge of Allegiance to the flag. A quorum was present.

2. Public Comment. No members of the public wished to speak at this time.

3. Review of San Gorgonio Pass Integrated Regional Water Management Plan. A copy of the draft plan was included in the agenda package. General Manager Davis explained that the Agency is part of the Regional Water Management Group (RWMG) that drafted the plan and that the Board will eventually have to approve it. He presented a Power Point summarizing key elements of the Plan and answered questions from the Board. He indicated that he would bring the final plan to the Board for consideration in the near future, likely in May or June.

4. Review of DWR 2017 Delivery Capability Report. A copy of the report was included in the agenda package. General Manager Davis noted that this report is produced every two years by DWR, per the Monterey Amendment, and this 2017 report was recently finalized and posted to DWR's web site. He reviewed the purpose of the report and presented a brief Power Point summarizing the key findings. He noted that this report will not garner as much attention as the 2019 report, which will be the one whose results will be included in 2020 Urban Water Management Plans.

5. Review of Surplus Water Sale Agreement with San Bernardino Valley MWD. General Manager Davis removed this item from the agenda, noting that some revisions would be made and that it would be brought back to the Board in the near future.

6. Review of Water Supply Agreement with AVED Dated July 17, 2017. Chairman Duncan noted that this item was added to the agenda by the Board and turned the meeting over to Director Stephenson, who pointed out that in his view the Agency should be looking to sell the Nickel water for the next few years until development in the region increases. He noted that, while this is his opinion, such action should not take place without a vigorous discussion by the Board. For example,

he pointed out that this year's SWP allocation is only 20% and the Nickel water helps the Agency fulfill its orders from retail agencies this year. However he is concerned about the cost of this water. He suggested that this item be tabled to another workshop in the near future that would include a discussion of this agreement and the Agency's overall water supply situation. The Board concurred.

7. Announcements

A. Regular Board Meeting, April 16, 2018 at 1:30 pm
B. Finance and Budget Workshop, April 23, 2018 at 1:30 pm
C. San Gorgonio Pass Regional Water Alliance, April 25, 2018 at 5:00 pm – Banning City Hall

8. Closed Session (1 item)

A. CONFERENCE WITH REAL PROPERTY NEGOTIATORS
Pursuant to Government Code Section 54956.8
Property: Potential transfer of State Water Project rights/supplies among State Water Contractors
Agency negotiator: Jeff Davis, General Manager
Negotiating parties: Kern County Water Agency, Curtis Creel, General Manager
Under negotiation: price and terms of payment

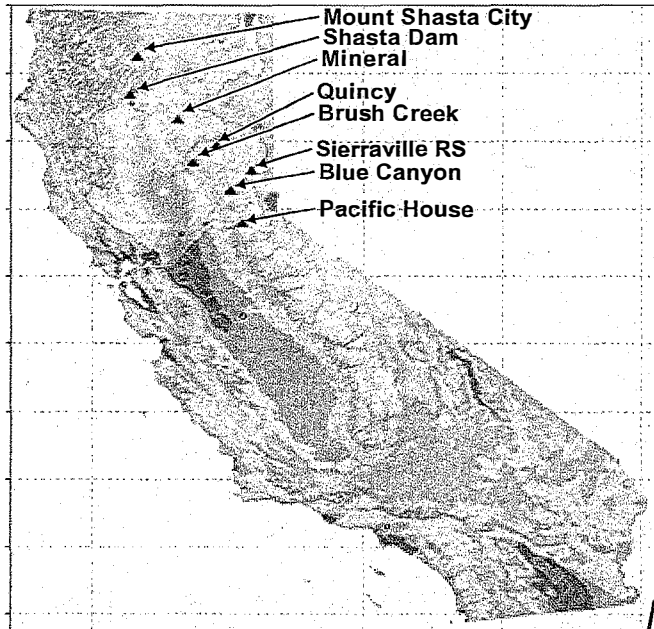
The Board went into closed session to discuss the subject issue at 2:29 pm. At 3:00 pm, the Board reconvened. General Counsel Ferre noted that no action was taken that is reportable under the Brown Act.

9. Adjournment

Director Duncan adjourned the meeting at 3:00 pm

Draft—subject to Board approval
Jeff Davis, Secretary to the Board
cmr

North Sierra Precipitation: 8-Station Index, April 12, 2018



Percent of Average for this Date: 84%

2016-2017 Daily Precip (wettest) 94.7

1982-1983 (2nd wettest) 88.5

1997-1998 82.4

Average (1966-2015) 51.8

Current Daily Precip:37.6

2014-2015 Daily Precip 37.2

1976-1977(2nd driest & driest thru Aug) 19.0

Cumulative Daily/N 54 / 9 Precipitation (inches)

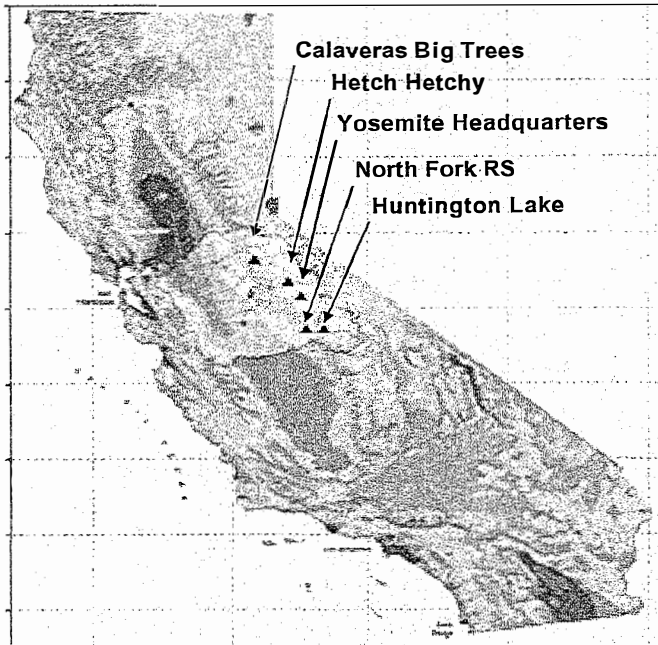
Total Water Year Precipitation

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

Oct 1 Nov 1 Dec 1 Jan 1 Feb 1 Mar 1 Apr 1 May 1 Jun 1 Jul 1 Aug 1 Sep 1 Oct 1

Water Year (October 1 - September 30)

San Joaquin Precipitation: 5-Station Index, April 12, 2018



Percent of Average for this Date: 83%

1982-1983 (wettest) 77.4

72.7 2016-2017 Daily Precip (2nd wettest)

1997-1998 65.2

Average (1966-2015) 40.2

Current Daily Precip:28.6

2014-2015 Daily Precip 19.0

15.4

1976-1977(2nd driest & driest thru Aug)

Cumulative Daily/10/45 Precipitation (inches)

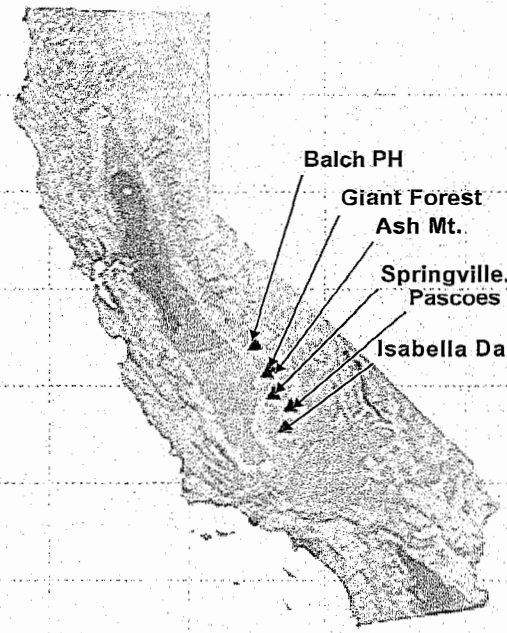
Total Water Year Precipitation

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90

Oct 1 Nov 1 Dec 1 Jan 1 Feb 1 Mar 1 Apr 1 May 1 Jun 1 Jul 1 Aug 1 Sep 1 Oct 1

Water Year (October 1 - September 30)

Tulare Basin Precipitation: 6-Station Index, April 12, 2018



Percent of Average for this Date: 68%

1968-1969 (Wettest) 56.3

54.2

1997-1998 (2nd wettest)

46.9

2016-2017 Daily Precip

Average (1966-2015) 28.8

Current Daily Precip:16.8

2014-2015 Daily Precip 13.5

10.9

1976-1977 Daily Precip (Driest)

Cumulative Daily/Monthly Precipitation (inches)

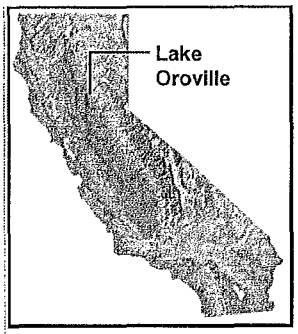
Total Water Year Precipitation

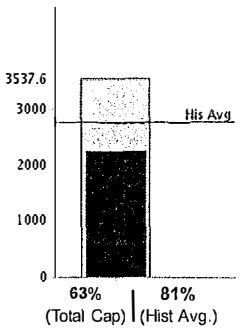
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

Oct 1 Nov 1 Dec 1 Jan 1 Feb 1 Mar 1 Apr 1 May 1 Jun 1 Jul 1 Aug 1 Sep 1 Oct 1

Water Year (October 1 - September 30)

OROVILLE - STORAGE CONDITIONS AS OF APRIL 12, 2018





Data as of Midnight: April 12, 2018

- Current Storage: 2242124 AF
- 63% of Total Capacity
- 81% of Historical Avg. For This Date
- (Total Capacity: 3537577.0 AF)
- (Avg. Storage for April 12: 2768124.0 AF)

Change Date: 12-Apr-2018

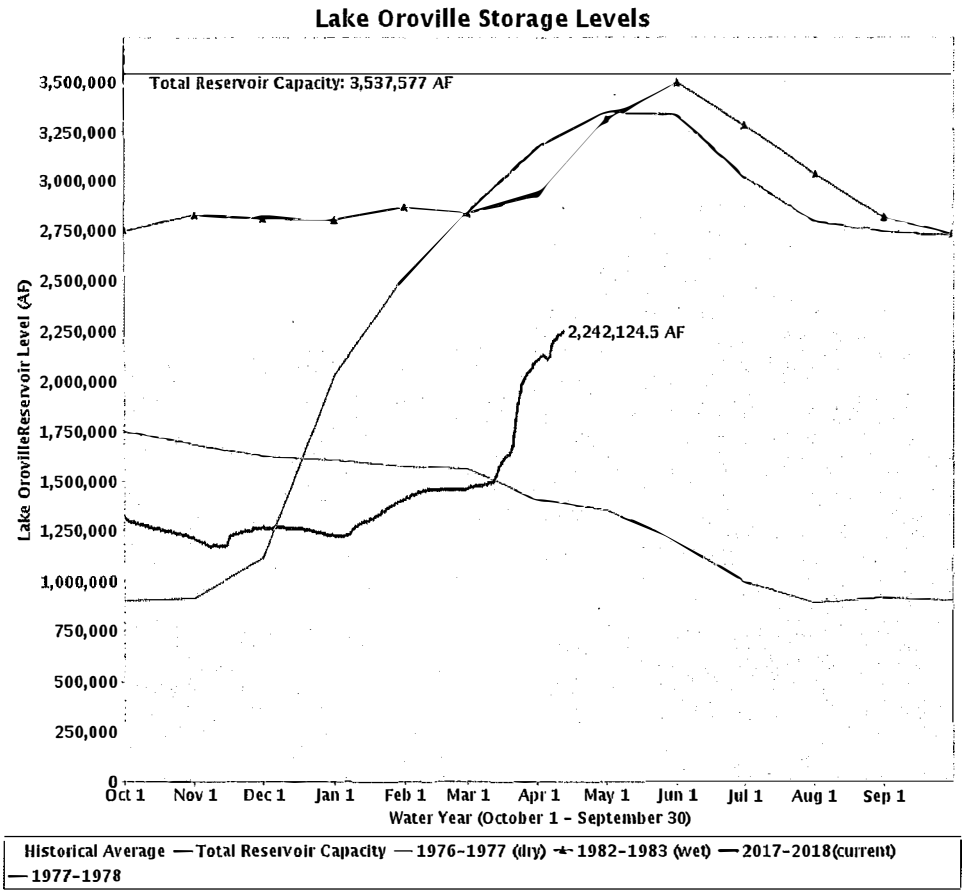
Major Reservoir Current Conditions Graphs

Printable Version of Current Data

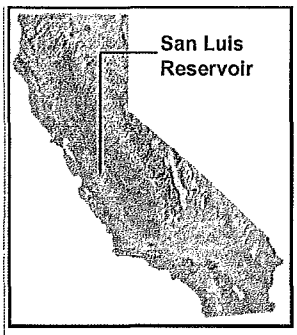
Oroville Storage Level Graph: **Choose water years to plot:**

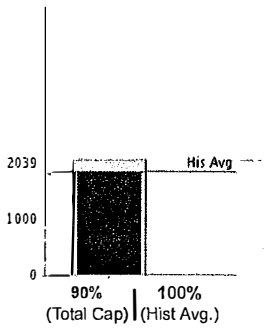
1976-1977 (dry)
1977-1978
1982-1983 (wet)
1988-1989
1989-1990
1990-1991

(ctrl+click for multiple selections)



SAN LUIS - STORAGE CONDITIONS AS OF APRIL 12, 2018





Data as of Midnight: April 12, 2018

- Current Storage: 1840009 AF
- 90% of Total Capacity
- 100% of Historical Avg. For This Date
- (Total Capacity: 2041000.0 AF)
- (Avg. Storage for April 12: 1836402.0 AF)

Change Date: 12-Apr-2018

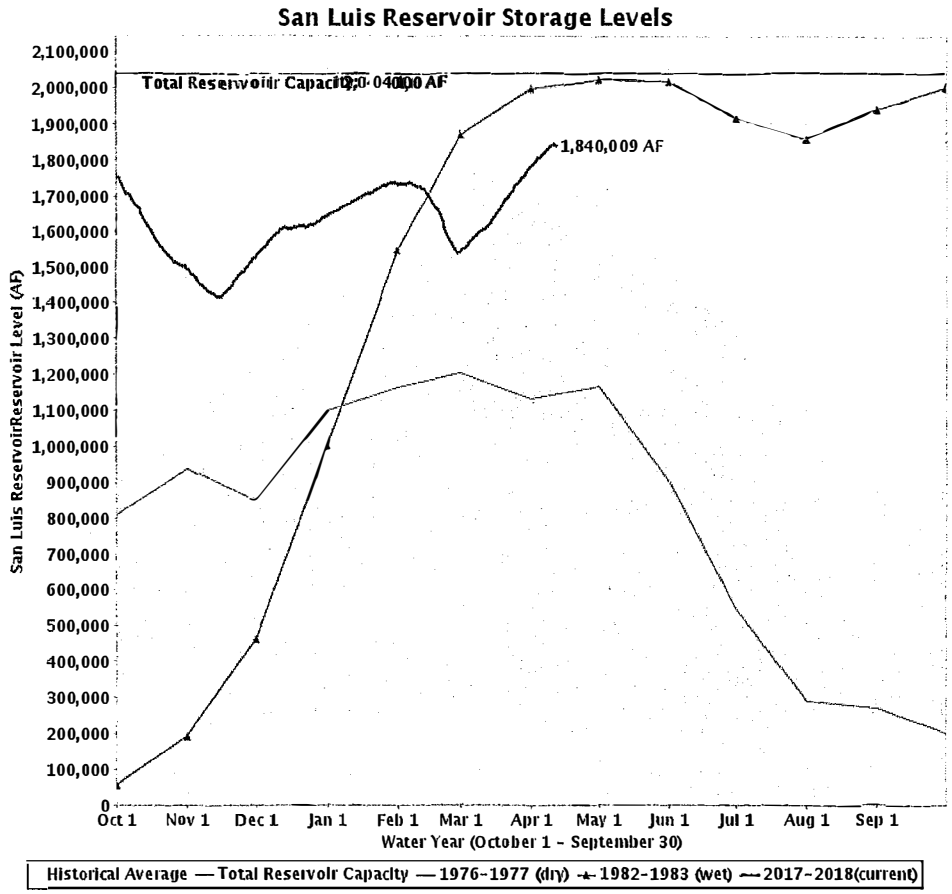
Major Reservoir Current Conditions Graphs

Printable Version of Current Data

San Luis Storage Level Graph: **Choose water years to plot:**

1976-1977 (dry)
1977-1978
1982-1983 (wet)
1988-1989
1989-1990
1990-1991

(ctrl+click for multiple selections)



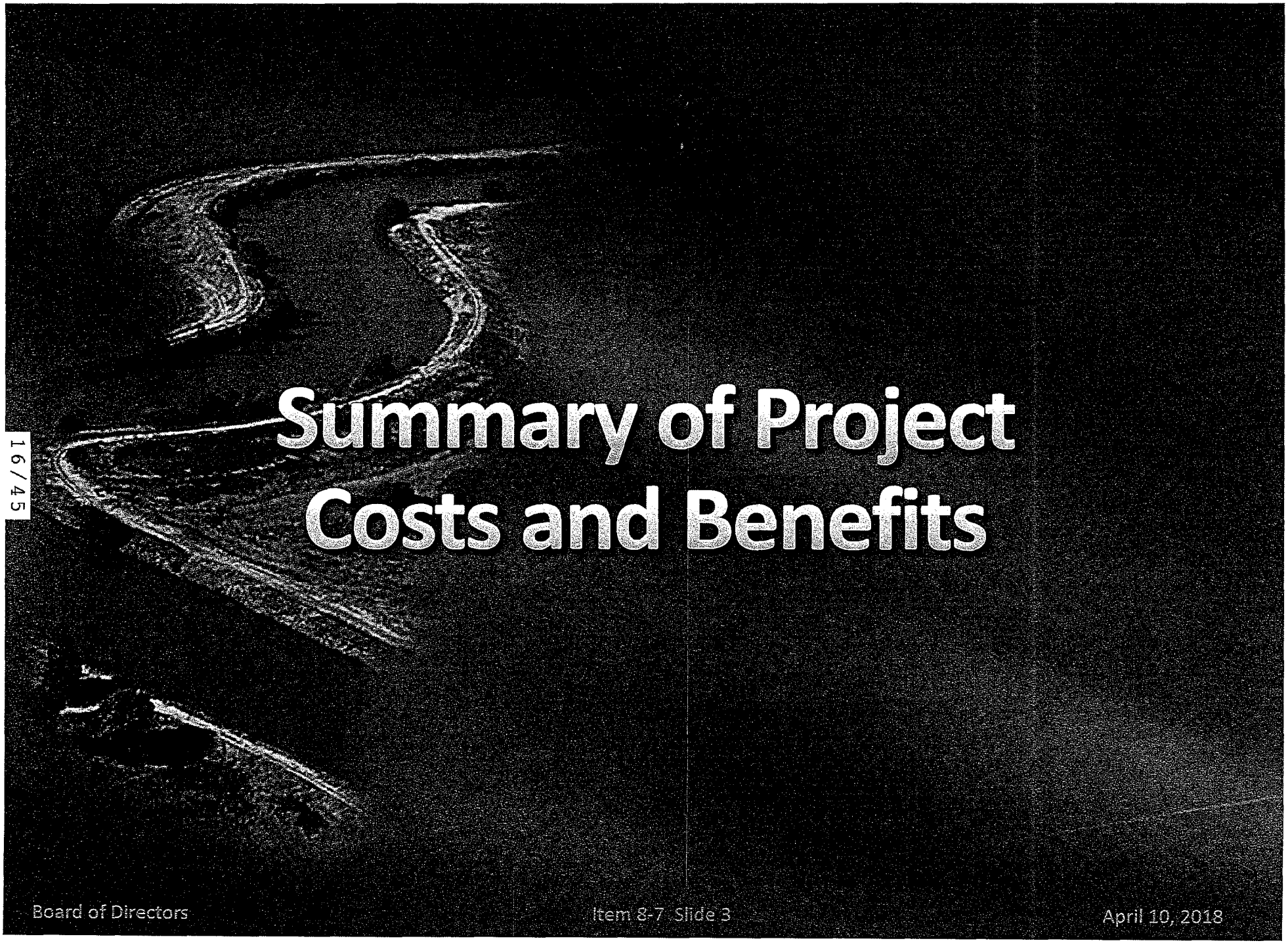
California WaterFix

Board of Directors
Item 8-7
April 10, 2018

California WaterFix

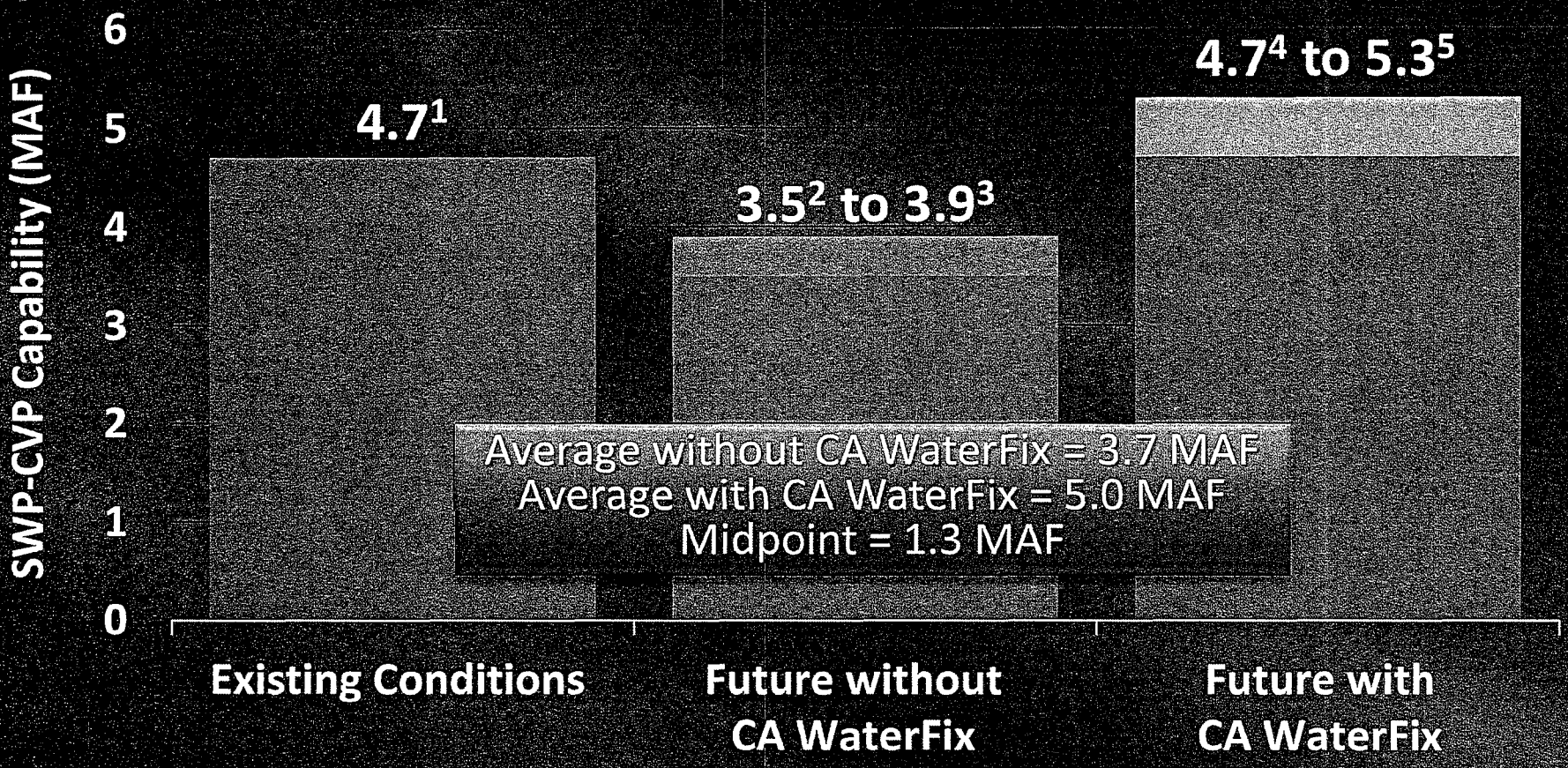
Recap of MWD Board October 2017 Action

- Adopt CEQA determination for 9,000 cfs project
- Support participation in 9,000 cfs project
  - 25.9 percent share of overall project costs
- Authorize
  - Design and Construction JPA participation
  - Finance JPA participation
  - Adaptive Management Program participation


Summary of Project
Costs and Benefits

California WaterFix Water Supply Analysis

Average Delivery Capability With & Without CA WaterFix



1. *California WaterFix EIR/EIS No Action Alternative, existing conditions with 2025 climate change impacts*
2. *2015 Delivery Capability Report Existing Conveyance High Outflow scenario*
3. *2015 Delivery Capability Report Existing Conveyance Low Outflow scenario*
4. *California WaterFix EIR/EIS Alternative 4A-H4, initial operating criteria lower range*
5. *California WaterFix EIR/EIS Alternative 4A-H3, initial operating criteria upper range*

Option 1: 6,000 cfs Stage 1
Analysis of Costs and Benefits

Stage 1: 6,000 cfs Facility	
Metropolitan CA WaterFix Share	47.1% MWD
Costs	
• MWD Total Capital Cost	$5.2 billion
• MWD Annual Costs (Capital + O&M) [1]	$252 million/yr.
• MWD Annual Increase (over 15-years)	1.1%
• MWD Average Cost Increase (per AF) [1,2]	$148/AF
• Household Cost [1,3]	$2.40 /month
Benefits	
• Water Supply – MWD share	Approx. 405 – 455 TAF/yr.
• Additional Available Transfer Capacity [4]	0.8 MAF/yr. at 50th percentile
• Water Quality – TDS Improvement	15%
• Water Quality – Bromide Improvement	24%
• Average Reverse Flows (in South Delta)	Approx. -405 cfs

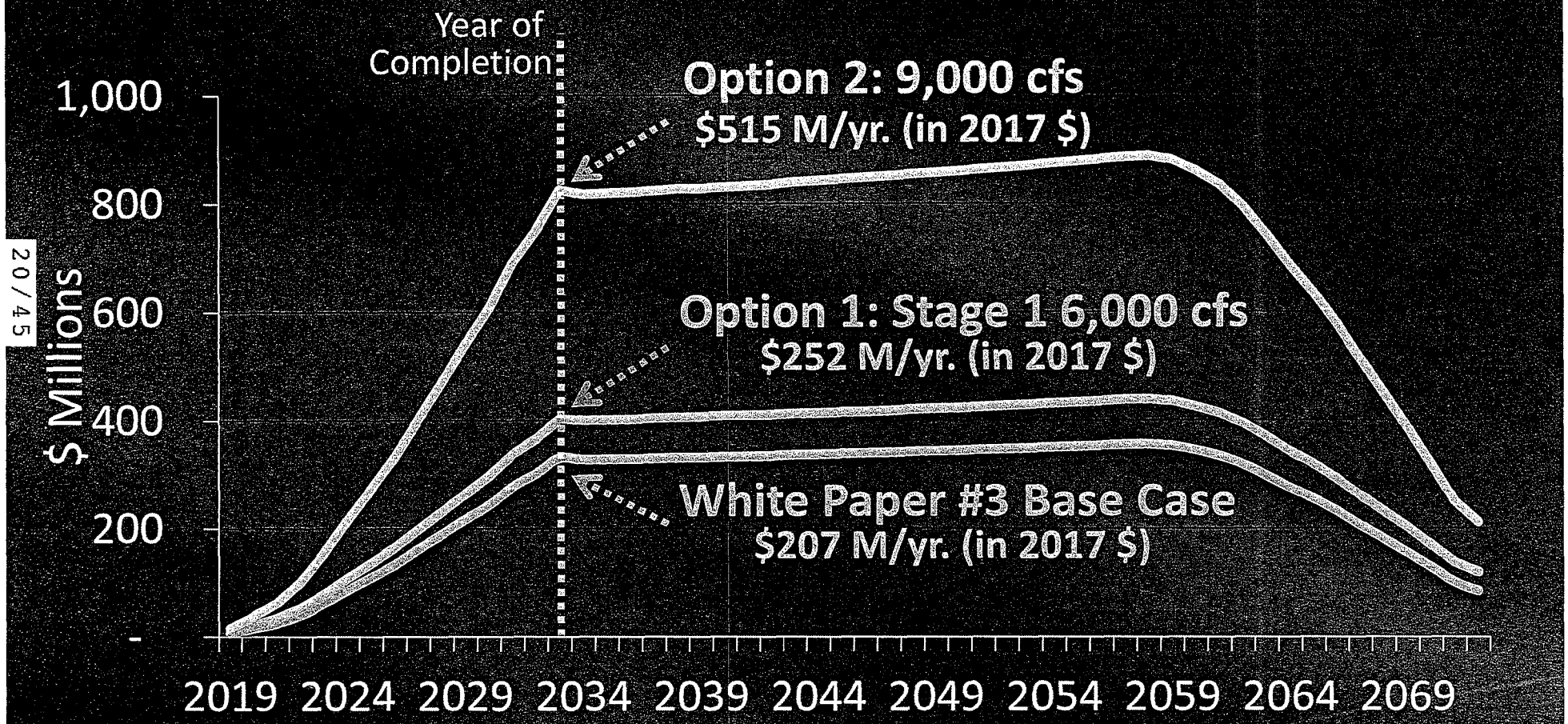
Notes: All costs in 2017 dollars: (1) When project fully operational in 2033 or year 15, at 4% interest rate; (2) based on Metropolitan's 2017/18 budget of 1.70 MAF; (3) based on 6.2 million occupied residential households in the MWD service area and 70% residential / 30% industrial split; (4) based on State Water Contractor analysis

Option 2: 9,000 cfs Full Facility
Analysis of Costs and Benefits

	9,000 cfs Facility
Metropolitan CA WaterFix Share	64.6% MWD
Costs	
• MWD Total Capital Cost	Up to $10.8 billion
• MWD Annual Costs (Capital + O&M) [1]	Up to $515 million/yr.
• MWD Annual Increase (over 15-years)	Up to 2.2%
• MWD Average Cost Increase (per AF) [1,2]	Up to $303/AF
• Household Cost [1,3]	Up to $4.80/month
Benefits	
• Water Supply – MWD share	Approx. 405 – 455 TAF/yr.
• Additional Available Transfer Capacity [4]	1.1 MAF/yr. at 50th percentile
• Water Quality – TDS Improvement	Up to 19%
• Water Quality – Bromide Improvement	Up to 31%
• Average Reverse Flows (in South Delta)	Up to +53 cfs

Notes: All costs in 2017 dollars: (1) When project fully operational in 2033 or year 15, at 4% interest rate; (2) based on Metropolitan's 2017/18 budget of 1.70 MAF; (3) based on 6.2 million occupied residential households in the MWD service area and 70% residential / 30% industrial split; (4) based on State Water Contractor analysis

MWD Share of Capital Financing and O&M



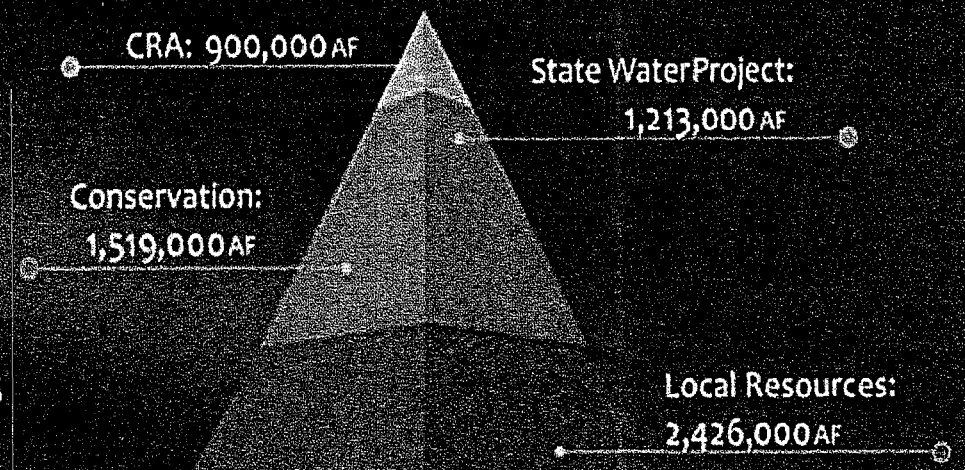
- *2017 dollars – value has been adjusted for inflation (i.e. value in today's dollars); assume 4% interest rate*

Sea-Level Rise & Climate Change Risk

- Sea-level rise
- Reduced snowpack
- Changing precipitation patterns
- Changing runoff timing and intensity

Integrated Resources Plan

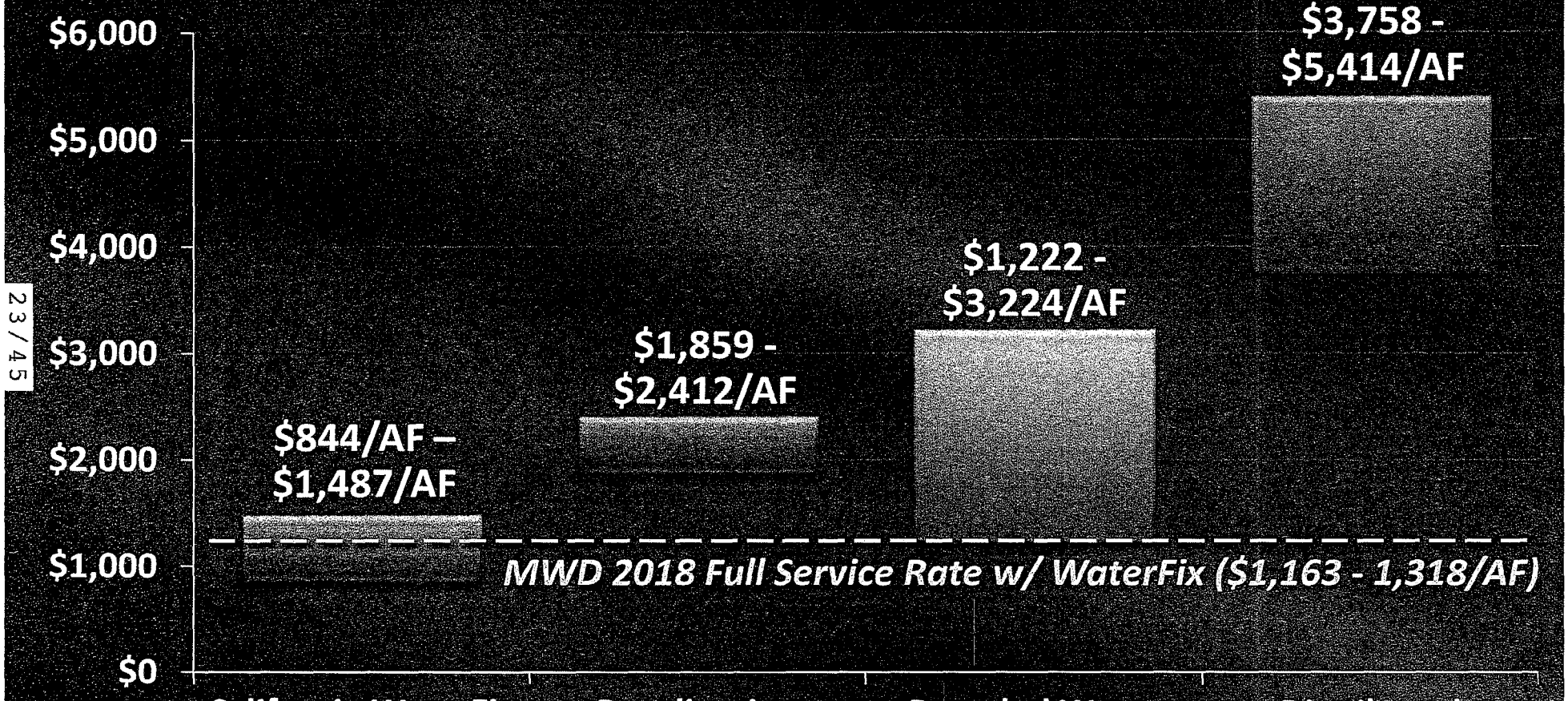
Meeting Future Demands



- California WaterFix
  - Consistent with IRP goals
  - Reduces risk of shortages
  - Decreases uncertainties due to future regulations and resource implementation

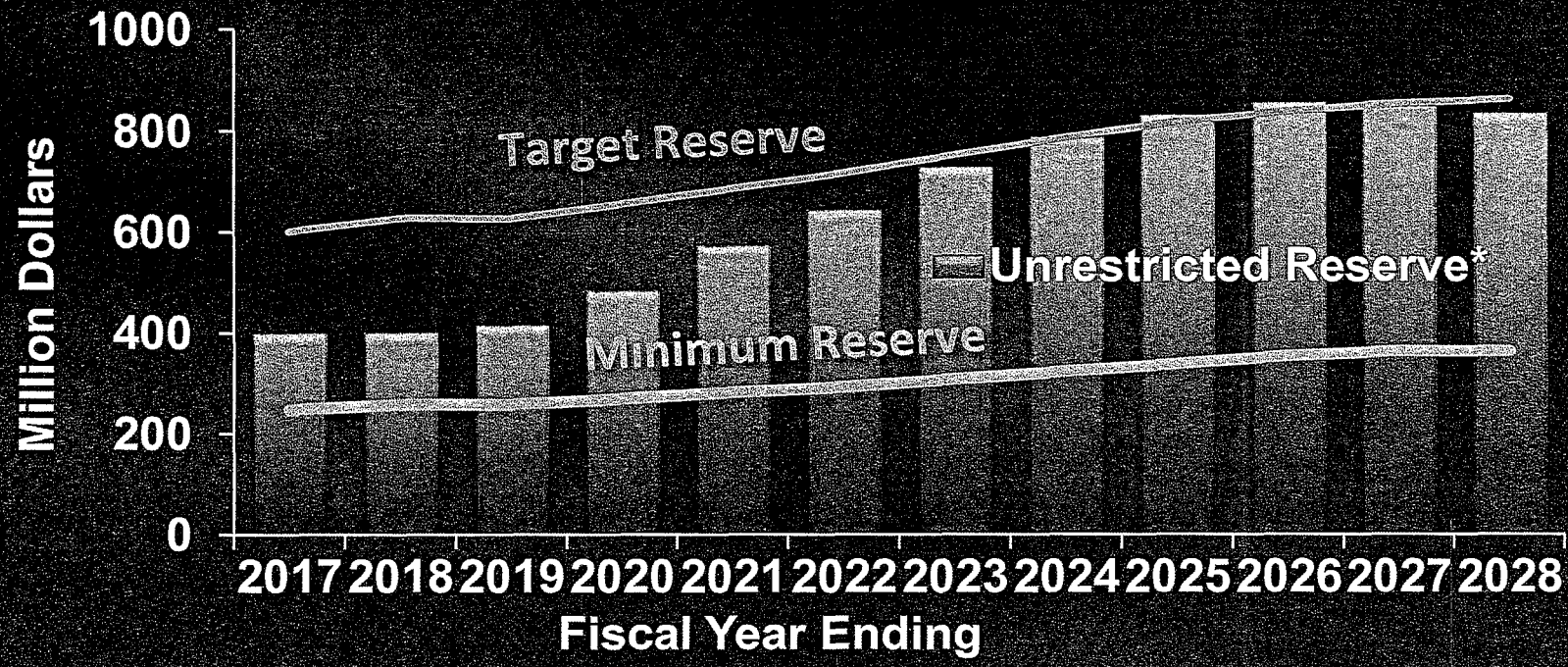
California WaterFix Maintains Rate Stability

California WaterFix vs. Alternative Supplies



* *Based on Metropolitan's 2018 Full Service Tier 1 Treated Rate plus WaterFix costs (i.e. $1,015/AF + ($148 to 303/AF) = $1,163 to $1,318/AF); CA WaterFix costs based on 4% interest rate*

Proposed MWD Budget & 10-Year Forecast

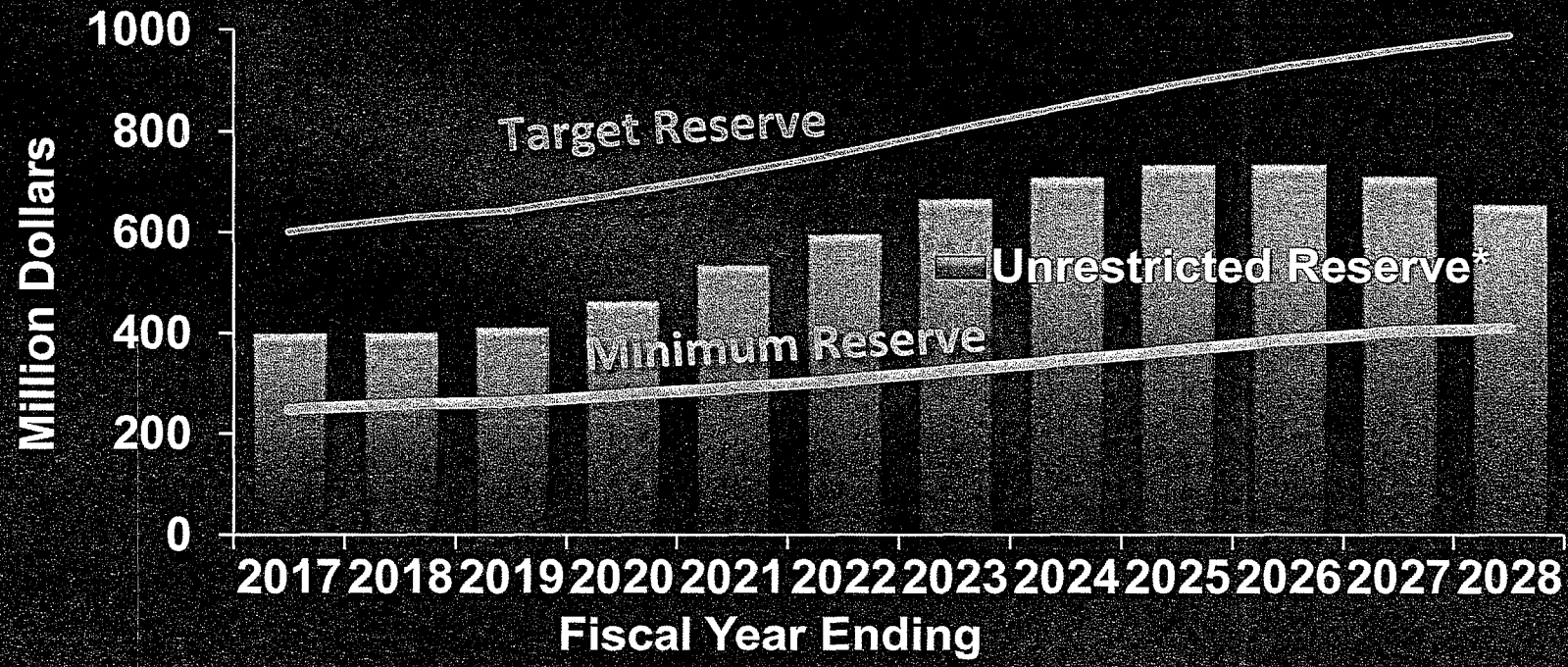


Overall Rate Increase	4.0%	4.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
Water Transactions (MAF)**	1.54	1.55	1.65	1.75	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Revenue Bond Coverage	1.6	1.5	1.6	1.9	2.1	2.1	2.1	2.1	2.2	2.1	2.2	2.2
Fixed Charge Coverage	1.4	1.4	1.5	1.7	1.9	1.8	1.7	1.6	1.6	1.5	1.4	1.3
CA WaterFix, $M			4	13	25	42	66	97	128	159	193	230

* *Revenue Remainder and Water Rate Stabilization Fund*
** *Includes water transactions, exchange and wheeling*

10-Year Forecast

CA WaterFix – Option 2: Full Project

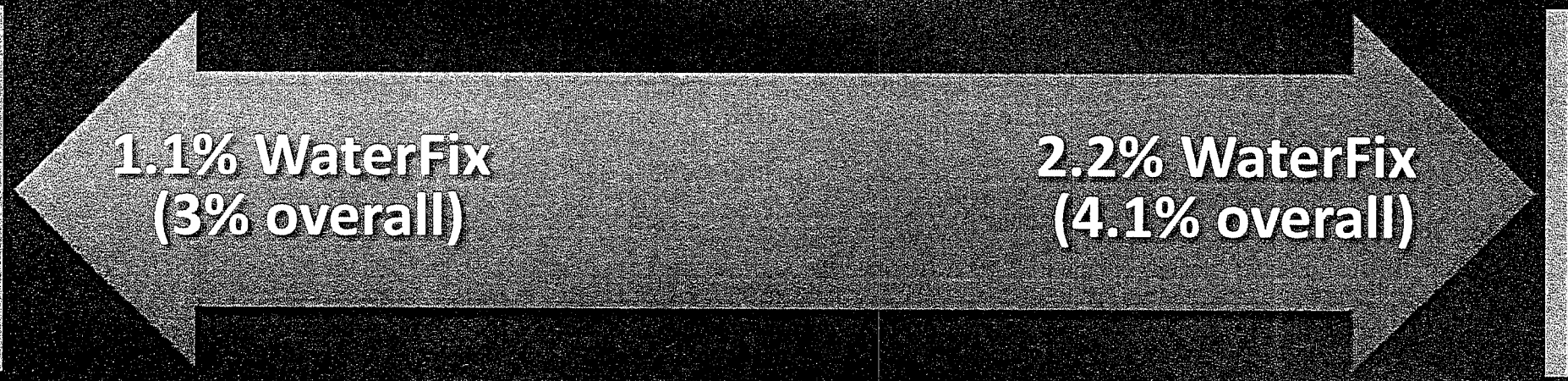


Overall Rate Increase	4.0%	4.0%	3.0%	3.0%	4.1%	4.1%	4.1%	4.1%	4.1%	4.1%	4.1%	4.1%
Water Transactions (MAF)**	1.54	1.55	1.65	1.75	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Revenue Bond Coverage	1.6	1.5	1.6	1.9	2.1	2.1	2.2	2.3	2.5	2.5	2.6	2.7
Fixed Charge Coverage	1.4	1.4	1.5	1.6	1.8	1.7	1.6	1.5	1.4	1.3	1.3	1.2
CA WaterFix, $M			8	27	51	82	128	186	245	303	368	438

Notes: CA WaterFix assumes 4% interest rate
* *Revenue Remainder and Water Rate Stabilization Fund*
** *Includes water transactions, exchange and wheeling*

California WaterFix Cost

Annual Rate Increases in MWD 10-Year Financial Forecast*



** Estimate based on Proposed Biennial Budget forecast and 4% interest rate for CA WaterFix*

Board Options

- Option #1

  Adopt CEQA determination, and:

  1. Express support to participate in the first stage
  2. Express support to contribute up to 47.1 percent of the costs of the first stage
  3. Amend the General Manager's existing authorization to execute JPAs to allow for governance structures commensurate with member participation
  4. Authorize funding of up to $63 million for start-up costs subject to a reimbursement agreement
  5. Authorize the General Manager to negotiate for one or more multi-year transfers of SWP water supplies

Board Options

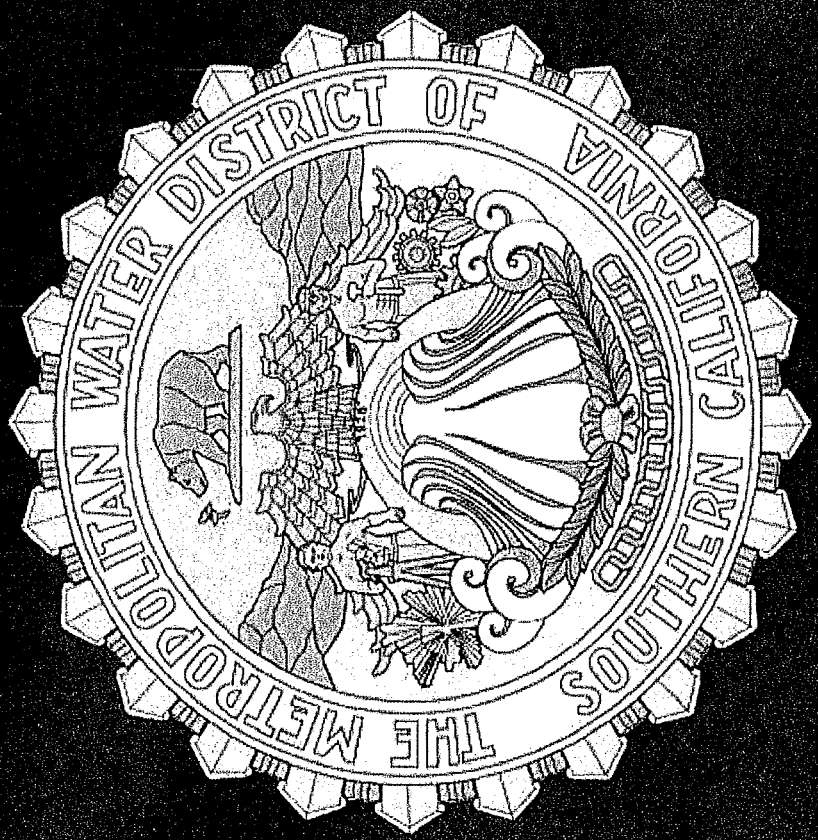
- Option #2

  Adopt CEQA determination, and:

  1. Adopt Resolutions authorizing the General Manager to participate, support and fund additional financing and funding arrangements for up to a 64.6 percent share of the full facility
  2. Amend the General Manager's existing authorization to execute JPAs to allow for governance structures commensurate with member participation
  3. Authorize funding of up to $86 million for start-up costs subject to a reimbursement agreement
  4. Authorize the General Manager to negotiate for one or more multi-year transfers of SWP water supplies

Board Options

- Option #3
  - Take no action, which maintains Metropolitan's commitment to participate in the California WaterFix at a funding level of 25.9 percent and take other actions pursuant to the Board's October 2017 authorizations


THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

BEST BEST & KRIEGER LLP
ATTORNEYS AT LAW

Memorandum

To: President and Members of the Board
San Gorgonio Pass Water Agency

From: Jeffry F. Ferre, General Counsel
Best Best & Krieger LLP

Date: April 16, 2018

Re: General Counsel Report - Board of Directors Meeting – April 16, 2018

In 2003, the Legislature enacted Water Code Section 1525 which requires holders of water rights permits, issued by the State Board, to pay annual fees according to a fee schedule established by the State Board. The fees are imposed in order to cover a portion of the costs of regulatory activities of the State Board's Division of Water Rights ("Division"). Prior to 2003, the operation of the Division was supported primarily by the state's general fund. The fees established by the State Board over the years have been protested, each year, by a number of water rights permit holders. These permit holders have argued that the fee amounts exceeded the proportionate benefits and burdens that they place on the Division's operations. Such annual bills from the State Board can be quite large for many water rights holders, including many water agencies.

In the case of Northern California Water Association et al. v. State Water Resources Control Board et al. C075866, 2018 WL 1127892, March 2, 2018, the Court of Appeal rejected challenges to the State Board's schedule of fees. The plaintiffs in this case (water rights permit holders) won at the trial court where the judge ruled that the State Board fees constituted an unlawful tax that failed to meet the requirement of a two-thirds vote by the Legislature under Proposition 13, and could not be justified as a valid regulatory fee (which only requires a simple majority vote of the Legislature). The trial court concluded that the fees were unlawful because they allocated the entire cost of the Division's regulatory activities to permit holders, while non-paying water-right holders, who also benefited from and placed burdens on the Division's activities, paid nothing.

However, the State Board appealed the case and the Court of Appeal reversed the trial judge's ruling, thereby upholding the State Board fees as valid regulatory fees. The Court of Appeal concluded that the State Board fees were indeed proportionate to the benefits derived by water rights permit holders, or the burdens they placed on the Division, because the revenues from the State Board fees accounted for only roughly half of the costs of the Division's regulatory activities (the balance being derived from the state's general fund and other funds), while roughly 90 percent of the Division's costs were attributable to water rights permit holders.

MEMORANDUM

TO: Board of Directors

FROM: General Manager

RE: Agreement With USGS to Drill Monitoring Wells

DATE: April 16, 2018

Summary:
The Agency is a member of the Groundwater Sustainability Agency (GSA) for the San Gorgonio Pass Sub-basin. In order to produce a groundwater sustainability plan (GSP) for the sub-basin, additional groundwater data will be necessary. The purpose of this proposed Board action is to determine if the Board wishes to contract with the USGS to drill three monitoring wells to aid in obtaining additional data. The drilling would be funded by a Prop 1 grant that the Agency has received for this specific purpose.

Background:
The Sustainable Groundwater Management Act (SGMA) was passed by the Legislature in 2014. Most groundwater basins in the state will have to have an approved Groundwater Sustainability Plan (GSP) by 2022. GSP's require a major engineering effort, which includes a water balance and a model for each basin. This effort will be costly. Because of this, grant programs have been set up to assist local water agencies in funding the work required to produce GSP's.

In the case of the San Gorgonio Pass sub-basin, the Agency, with the approval of the Board, applied for and received two grants, each for $1 million. The first of these is to drill three additional monitoring wells in the eastern portion of the sub-basin. This is an area where there is virtually no groundwater level data. The addition of these wells will be instrumental in developing a meaningful groundwater model for the sub-basin, thus improving the quality of the GSP and overall long-term management of the sub-basin.

The second grant is for the production of the GSP. The GSA for the sub-basin has not yet begun the process of contracting with a consultant, but will be doing so in the near future. At that time, more information will be forthcoming from staff to the Board regarding the consultant and the second grant.

Detailed Report:
The San Gorgonio Pass sub-basin is covers generally the area that the Agency typically refers to as the Cabazon basin. The San Gorgonio Pass sub-basin, as defined by DWR, is slightly larger than the Cabazon basin, including various canyons that feed the basin and also a portion of the Desert Water Agency's service area, east of the Agency's boundary.

The Agency has worked with the United States Geological Survey (USGS) for a number of years to drill monitoring wells and perform well monitoring in the sub-basin. However, all of the monitoring wells and virtually all of the data are from the western two-thirds of the sub-basin. There are virtually no wells along the eastern boundary of the sub- basin. This is an important boundary, as the flow of groundwater across it helps define he safe yield of the main Coachella basin, which is a very large groundwater basin serving the Coachella Valley.

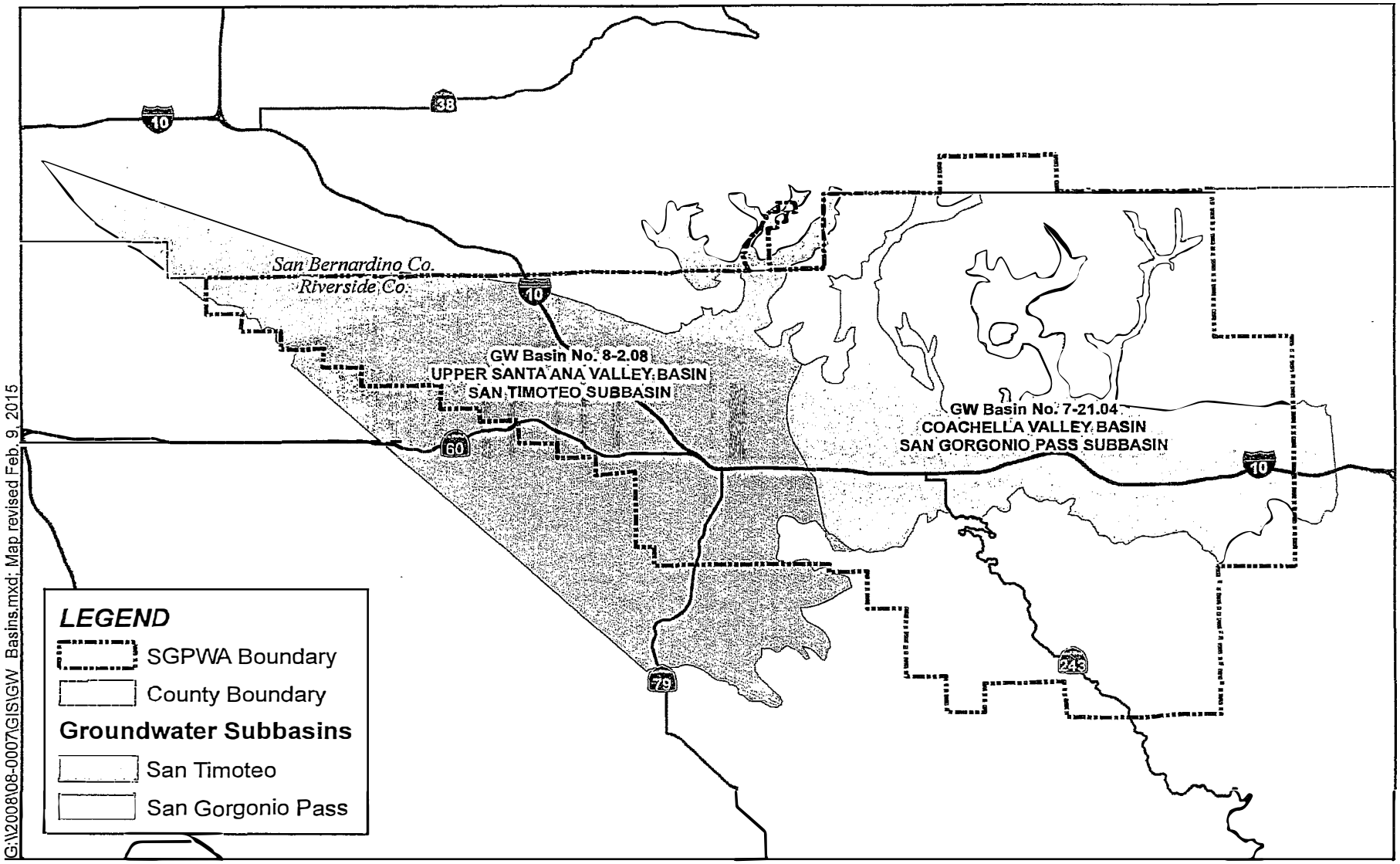
Drilling of the proposed monitoring wells would enable the Agency (and the other members of the GSA) to better understand groundwater flow in the eastern half of the sub-basin and would be able to better define the flow across the boundary between the two basins (known as Fingal Point). There is virtually no current data that provides this information. A groundwater model produced as part of the San Gorgonio Pass IRWMP estimated the flow across the boundary, but it did so without any hard data to compare the estimate to.

Drilling of at least one monitoring well would be required for the GSP. With the Prop 1 grant, the Agency is able to drill three at no cost to the Agency or other members of the GSA. Staff, the USGS, and other members of the GSA are currently working to locate areas where well "muck" may be stored and/or disposed of at little or no cost. Disposal of drilling mud has become more difficult in recent

years. Diligent efforts are underway to find properties that may be used for this purpose.

Fiscal Impact:
There will be no fiscal impact to this work. The well drilling is entirely funded by the Prop 1 grant, up to $1 million. While drilling costs are not entirely predictable, staff will work with the USGS to ensure that costs remain under this amount.

Recommendation:
Staff recommends that the Board approve the proposed agreement with the USGS, included in the agenda package, to drill three monitoring wells in the San Gorgonio Pass sub-basin, and to authorize the General Manager to sign the agreement and to take all steps necessary to complete the wells.



Sources: DWR, June 2014;
County of Riverside, 2015

0 2 4 6 Miles

Groundwater Basins

San Gorgonio Pass Water Agency

ALBERT A. WEBB ASSOCIATES

United States Department of the Interior

U.S. GEOLOGICAL SURVEY
California Water Science Center
6000 J Street, Placer Hall
Sacramento, CA 95819
Phone: (916) 278-3026 Fax: (916) 278-3045
http://water.wr.usgs.gov

March 8, 2018

Mr. Jeff Davis
General Manager and Chief Engineer
San Gorgonio Pass Water Agency
1210 Beaumont Avenue
Beaumont, California 92223

Dear Mr. Davis:

This letter confirms discussions between our respective staffs, concerning the cooperative program between the San Gorgonio Pass Water Agency (SGPWA) and the U.S. Geological Survey (USGS) during the period March 15, 2018 to November 30, 2018. The work proposed under the enclosed Joint Funding Agreement (JFA) is a continuation of the cooperative basin-wide monitoring network. A detailed description of drilling, construction, and documentation of three multi-well monitoring sites and the costs for this work is included as an attachment to this letter.

The total cost of the proposed cooperative water-resources program in FFY18 is $1,015,000. Of this total, SGPWA will contribute $1,000,000 and, subject to the availability of Cooperative Matching Funds (CMF), the USGS will contribute $15,000. The proposed program for this period and associated costs are presented in Table 1.

Table 1. FFY18 Budget

Program element	USGS	SGPWA	Total
Drilling and Construction of 3 monitoring sites			
Site 11- proposed depth no greater than 1,500 ft, with 5 wells or less	$11,000	$386,700	$397,700
Site 12- proposed depth no greater than 1,500 ft, with 5 wells or less	$2,000	$353,400	$355,400
Site 13- proposed depth no greater than 1,000 ft, with 5 wells or less	$2,000	$259,900	$261,900
Total	**$15,000**	**$1,000,000**	**$1,015,000**

Enclosed are two copies of Joint Funding Agreement (JFA) for your approval. Work performed with funds from this agreement will be conducted on a reimbursable-price basis. If the JFA is acceptable, please return one copy with original signatures to our office for further processing. The second copy is for your files.

If you have any questions concerning the program described above, please contact Allen Christensen at (619) 225-6175 or Dr. Brad Guay at (619) 225-6121, in or San Diego Office. If you have any administrative questions, please contact Nancy Mora at (619) 225-6428.

Sincerely,

Eric Reichard
Director
USGS California Water Science Center

BACKGROUND

Since 1999, the USGS, in cooperation with SGPWA, has installed 10 multiple-well monitoring sites within the SGPWA service area. In an effort to improve the understanding of the aquifer system(s) of the eastern part of the Cabazon basin and the boundary between Cabazon/Coachella basins, the USGS proposes to install three additional multiple-well monitoring sites located in the eastern part of the Cabazon basin (fig. 1). Site 11 will be located approximately two miles west of the eastern boundary of the Cabazon basin in an area where little is known about the aquifer system. Two additional monitoring sites will be located along the Cabazon/Coachella basin boundary: site 12 will be located just inside the Cabazon basin, above a basement ridge that trends north from Fingal point, and, site 13 will be located east of the basement ridge in the western part of the Coachella Valley basin. Data from these sites will provide critical geologic and geochemical information about the vertical and lateral gradients and water-quality in the region. These data will improve understanding of the hydrology of the eastern part of the Cabazon basin and the hydrologic interaction, if any, between the Cabazon basin to the west and the Coachella Valley basin to the east. Results from this research will provide resource managers critical information to make informed management decisions.

OBJECTIVES

The objectives of this study are to: (1) characterize the geologic, hydrologic, and chemical characteristics of the aquifer system(s) beneath eastern part of the Cabazon and western part of the Coachella basins; and (2) characterize the interactions, if any, between the Cabazon and Coachella basins.

APPROACH

Figure 1 shows the proposed location of three multiple-well monitoring sites. Site 11 will be located within a parcel currently owned and managed by California Department of Transportation (CALTRANS). Site 12 will be located about 2 miles east and just north of I-10, downgradient from the site 11, in a parcel that is owned and managed by Bureau of Land Management (BLM). Sites 13 will be located about 0.7 miles east and downgradient from the site 12, north of Interstate 10, in a parcel that is owned and managed by CALTRANS. The exact location of these sites may change as needed and will be determined jointly by SGPWA and USGS technical staff.

USGS drilling operations are expected to span a period of about 35-50 days. USGS will have access to the wells for monitoring, testing, and sampling throughout the span of agreed-upon work between the USGS and SGPWA. A USGS hydrologist will be on-site during the construction phase to log and coordinate site events, record borehole and drilling conditions, collect and describe drill cuttings, and provide regular progress updates.

The general approach by the USGS Research Drilling Operation group at all sites will be to set a surface casing, and drill a borehole using a mud-rotary technique up to a depth of approximately 1,500 feet (ft) for sites 12 and 13, and approximately 1,000 ft for site 11. The depth of each monitoring site may be modified based on hydrogeological conditions encountered or budget

constraints. Upon reaching total depth, a suite of borehole geophysical logs will be collected to measure physical properties of earth materials near the borehole. Next, three to five monitoring wells will be installed at different depths and isolated from each other by a low-permeability grout to allow the monitoring of groundwater levels, water quality, and hydraulic properties. This aquifer-specific information is important for understanding the three-dimensional movement of water and tracing dissolved constituents in the groundwater system. Each monitoring well will be assembled using two-inch diameter schedule-80 polyvinyl chloride (PVC) casing, using a well screen interval of 20–90 feet in length with a slot size of 0.020 inches, that is surrounded by a gravel pack. At each site, SGPWA and USGS technical staff will assess the geologic, hydrologic, and logistical factors, and determine conjointly the final well construction design. Exact casing and screen depths will vary; however, the approach will seek to align wells in the same part of the aquifer between sites. Finally, the wells will be secured within a locking flush-mounted vault and protected by a set of bumper posts. At sites 12 and 13, USGS drillers may use a small-diameter bit to open a pilot hole to total depth. Upon reaching total depth, the USGS will complete a borehole geophysical survey. USGS drillers will then ream the pilot hole to create a tapered boring and install three to five monitoring wells. The USGS will develop the wells using jetting, surging, and swabbing techniques to obtain representative measurements of aquifer-system conditions.

At the site 11, USGS drillers will open and taper a borehole with various-sized bits to total depth. Upon reaching total depth, the USGS will log the borehole using caliper, electric, sonic, and electromagnetic-induction geophysical tools. The geophysical tools will be calibrated by the manufacturer according to the manufacturer's guidelines, except for the caliper tool, which will be calibrated on-site according to the specific conditions of the borehole. The USGS will then install three to four monitoring wells.

Drill cuttings will be collected during drilling in two ways: throughout a 20-ft interval from the return drilling fluid using a Number 120 (125 μm) U.S.A. Standard Testing Sieve, and a grab-sample every ten feet (or at distinguishable changes in lithology) from a Number 60 (250 μm) mesh screen mounted on the drill rig's shaker tank. Cutting samples and field descriptions of lithology will be re-evaluated offsite under microscopic examination for grain size, texture, sorting, rounding, color, and any other noticeable features, such as wood or shell fragments. A lithologic log will be prepared.

Sequence-stratigraphic methods, along with new lithologic and geophysical data, will be used to identify sequence boundaries, assign deposits into known regional sequences and correlate the strata between the monitoring-well sites.

A Level-3 Static survey, using high-precision global navigation satellite systems equipment (Rydlund and Densmore, 2012), will be conducted to compute the location of the multiple-well monitoring sites. This method will also be used to establish a reference mark and vertical geodetic control at each monitoring site, in conjunction with procedures described by Cunningham (2011).

MONITORING

Depth to water will be measured, and a pneumatic slug test (Greene and Shapiro, 1995) will be conducted at each well to help evaluate the hydraulic properties of the aquifer materials adjacent to the well screen. Data will be processed and analyzed following procedures described by Halford

and Kuniansky (2002) to obtain an estimate of hydraulic conductivity. Results will be documented in accordance with USGS Office of Groundwater Technical Memorandum 2009.01 (upon approval). Upon completion of testing, a pressure transducer will be installed at each well. Data will be downloaded and entered into USGS online data base quarterly, with appropriate quality assurance and quality control, and will be made publicly available for viewing or download from World Wide Web sites established for each well. Costs for purchasing, installing and monitoring transducers are not included in this estimate.

Water samples will be collected in conjunction with SGPWA's regional groundwater-monitoring program to assess the quality of water and help characterize the source, movement, and relative age of water between sites 11-13. This program monitors water-quality at each well every three years. Field measurements of temperature, pH, specific conductance, dissolved oxygen and sulfide, and alkalinity will be recorded. Samples will be processed following techniques described in the USGS National Field Manual (USGS, variously dated). Constituents for sampling (and laboratory analysis) include: major/minor ions, selected trace elements, and nutrients (USGS National Water Quality Lab in Denver, CO), dissolved organic carbon and optical properties (USGS Organic Matter Research Lab in Sacramento, CA); stable isotopes of water (USGS Stable Isotope Lab, Reston, VA); tritium (USGS Tritium Lab in Menlo Park, CA); boron and strontium isotopes (USGS NRP Metals Isotope Research Lab in Menlo Park, CA); and carbon isotopes (National Ocean Sciences Accelerator Mass Spectrometry Facility in Woods Hole, MA). One quality assurance sample will be collected and analyzed for every 10 environmental samples. As part of the data analysis and quality-assurance, data quality codes will be evaluated and set appropriately following data verification and validation procedures outlined by Olson (2014). Water-quality data will be entered into USGS online data base and will be made publicly available. The USGS can provide estimates for initial sampling and subsequent monitoring upon request.

DATA MANAGEMENT AND DOCUMENTATION

Data collected during drilling, geophysical logging, and well construction will be compiled and entered into appropriate USGS databases, such as the National Water Information System (http://waterdata.usgs.gov/nwis) or Borehole Log Archiver (http://logarchiver.usgs.gov/), and archived locally in the San Diego Project Office according to USGS Office of Groundwater Technical Memorandum 2010.01. Individual Well Completion Reports will be prepared and submitted to the Department of Water Resources for assignment and approval of an official State Well Number. A copy of the Well Completion Reports, along with a description of the site boring, well-construction procedures, well-completion diagram, well-development notes, field lithologic log showing sequence-stratigraphic units, geophysical-log data, and other available preliminary data, will be sent to SGPWA. Data collected a part of this research including, geologic and geophysical logs and well construction will be published in USGS factsheet style open file report(s).

COST AND BUDGET

The cost to SGPWA for the drilling, installation, and reporting of multiple-completion monitoring sites, as described in this proposal, is $1,000,000. Subject to the availability of USGS Cooperative Matching Funds (CMF); current estimate for CMF is $15,000. If the SGPWA decides to fund this

research the USGS will determine the availability of CMF. Costs are based upon a 12-hour day and 7-day weekly work schedule assuming no restrictions to site access or operations. Costs are divided into four phases:

1) PLANNING: $53,000
This phase includes staff and equipment costs for site evaluation and well siting; initial design and crew preparations; permitting and procurement; project planning and meetings.
San Gorgonio will contribute $38,000 and subject to the availability of Cooperative Matching Funds (CMF), the USGS will contribute $15,000.00

2) DRILLING AND CONSTRUCTION: $775,000
Costs associated with this phase include staff and equipment, rig mobilization and setup; borehole drilling and well construction; geophysical logging; disposal of waste solids/fluids; well development; tear-down and de-mobilization; and site security. The drilling and construction costs were calculated based all sites being constructed in one drilling phase, additional costs will be incurred if the drilling of the sites is not completed in a consecutive manor.

3) DATA COLLECTION AND ANALYSIS: $102,000
This phase includes staff and equipment costs for site management, detailed description of lithology and sequence-stratigraphic unit assignments; the measurement of depth-to-water in each well; high-precision reference mark survey; geophysical logging an each site.

4) DOCUMENTATION: $85,000
Costs associated with this phase include data compilation and quality assurance, well and site reporting, correspondences, and project archive.

REFERENCES

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Greene, E. A., and Shapiro, A. M., 1995, Methods of conducting air-pressurized slug tests and computation of type curves for estimating transmissivity and storativity: U.S. Geological Survey Open-File Report 1995-424, 43 p.
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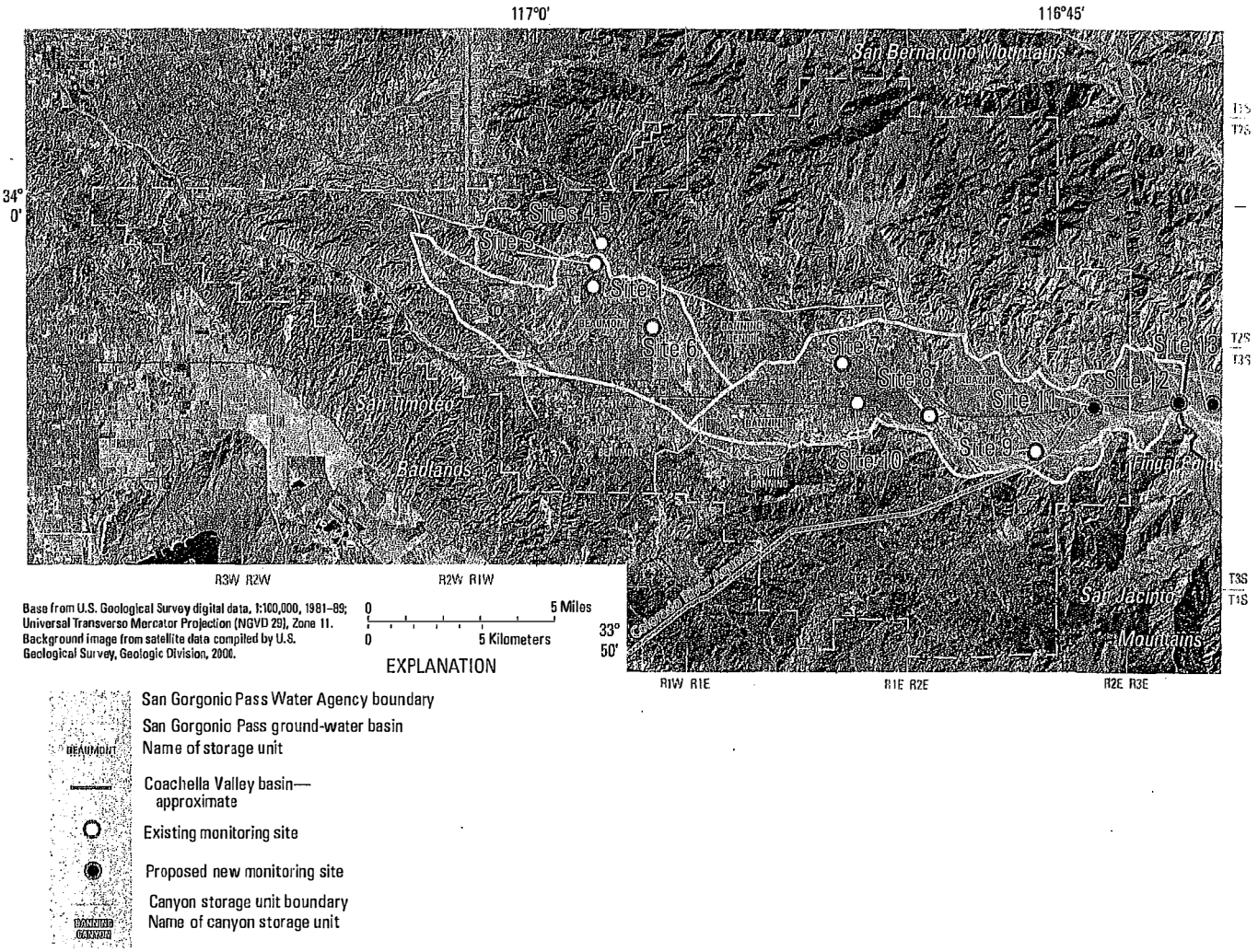

Figure 1. Map showing proposed and existing monitoring sites.

Form 9-1366
(April 2015)

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

JOINT FUNDING AGREEMENT

Customer #:	6000000967
Agreement #:	18WSCA600096720
Project #:	ZG00AOY
TIN #:	95-2216065
Fixed Cost Agreement	NO

FOR

WATER RESOURCES INVESTIGATIONS

THIS AGREEMENT is entered into as of the, 15 day of March, 2018 by the U.S. GEOLOGICAL SURVEY, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the San Gorgonio Pass Water Agency, party of the second part.

1. The parties hereto agree that subject to availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation San Gorgonio Water Pass Agency herein called the program. The USGS legal authority is 43 USC 36C; 43 USC 50; and 43 USC 50b.

2. The following amounts shall be contributed to cover all of the cost of the necessary field and analytical work directly related to this program. 2(b) includes In-Kind Services in the amount of $0.00

   (a) by the party of the first part during the period

Amount	Date	to	Date
$15,000.00	March 15, 2018		November 30, 2018

   (b) by the party of the second part during the period

Amount	Date	to	Date
$1,000,000.00	March 15, 2018		November 30, 2018

   USGS DUNS is 1761-38857. The amount In both 2(a) and 2(b) above are for this agreement only. Total USGS funding is $15,000.00. Total SGPWA funding is $1,000,000.00.

   (c) Contributions are provided by the party of the first part through other USGS regional or national programs, in the amount of: $0.00

   Description of the USGS regional/national program:
   No additonal contributions

   (d) Additional or reduced amounts by each party during the above period or succeeding periods as may be determined by mutual agreement and set forth in an exchange of letters between the parties.

   (e) The performance period may be changed by mutual agreement and set forth in an exchange of letters between the parties.

3. The costs of this program may be paid by either party in conformity with the laws and regulations respectively governing each party.

4. The field and analytical work pertaining to this program shall be under the direction of or subject to periodic review by an authorized representative of the party of the first part.

5. The areas to be included in the program shall be cletermined by mutual agreement between the parties hereto or their authorized representatives. The methods employed in the field and office shall be those adopted by the party of the first part to insure the required standards of accuracy subject to modification by mutual agreement.

6. During the course of this program, all field and analytical work of either party pertaining to this program shall be open to the inspection of the other party, and if the work is not being carried on in a mutually satisfactory manner, either party may terminate this agreement upon 60 days written notice to the other party.

9-1366 (Continuation) Customer #: 6000000967 Agreement #: 18WSCA600096720

7. The original records resulting from this program will be deposited in the office of origin of those records. Upon request, copies of the original records will be provided to the office of the other party.

8. The maps, records, or reports resulting from this program shall be made available to the public as promptly as possible. The maps, records, or reports normally will be published by the party of the first part. However, the party of the second part reserves the right to publish the results of this program and, if already published by the party of the first part shall, upon request, be furnished by the party of the first part, at costs, impressions suitable for purposes of reproduction similar to that for which the original copy was prepared. The maps, records, or reports published by either party shall contain a statement of the cooperative relations between the parties.

9. USGS will issue billings utilizing Department of the Interior Bill for Collection (form DI-1040). Billing documents are to be ren dered QUARTERLY. Payments of bills are due within 60 days after the billing date. If not paid by the due date, interest will be charged at the current Treasury rate for each 30 day period, or portion thereof, that the payment is delayed beyond the due date. (31 USC 3717; Comptroller General File B-212222, August 23, 1983).

	U.S. Geological Survey United States Department of the Interior		San Gorgonio Pass Water Agency
	USGS Point of Contact		**Customer Point of Contact**
Name:	Nancy L. Mora, Budget Analyst	Name:	Jeff Davis
Address:	4165 Spruance Rd Suite 200 San Diego, CA 92101	Address:	1210 Beaumont Avenue Beaumont, CA 92223
Telephone:	(619) 225-6428	Telephone:	(951) 845-2577
Email:	nmora@usgs.gov	Email:	jdavis@sgpwa.com

Signatures and Date

Signature:	Date: 3-8-18	Signature:	Date:
Name:	Eric G. Reichard	Name:	Jeff Davis
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