

# **SAN JUAN WATER DISTRICT**

Board of Director's Meeting Minutes  
September 23, 2015 – 7:00 p.m.

## **BOARD OF DIRECTORS**

Ted Costa	President
Pam Tobin	Vice President
Ken Miller	Director
Dan Rich	Director
Bob Walters	Director

## **SAN JUAN WATER DISTRICT MANAGEMENT AND STAFF**

Shauna Lorance	General Manager
Keith Durkin	Assistant General Manager
Donna Silva	Director of Finance
Teri Hart	Board Secretary/Administrative Assistant

## **OTHER ATTENDEES**

Dave Underwood	FOWD
Bryan Baumgarten	Student
Sean Miller	Student
Neha Prakash	Student
Olivia Salazar	Student
Sydney Saylor	Student
Chris Weber	Student
Jack Willin	Student
Krista Wischmann	Student
Kyra Zimmerman	Student

## **AGENDA ITEMS**

- I. Public Forum**
- II. Consent Calendar**
- III. Committee Reports**
- IV. Information and Action Items**
- V. Upcoming Events**
- VI. Adjourn**

President Costa called the meeting to order at 7:00 p.m. President Costa informed the Board that Agenda Item IV-1.1 *Water Supply Update* would be presented after the Consent Calendar. The meeting minutes will remain in the original order.

### **I. PUBLIC FORUM**

There were no public comments.

## II. **CONSENT CALENDAR**

All items under the consent calendar are considered to be routine and are approved by one motion. There will be no separate discussion of these items unless a member of the Board, audience, or staff request a specific item removed after the motion to approve the Consent Calendar.

### 1. **Minutes of the Board of Directors Meetings**

Approval of San Juan Water District's Board of Director's meeting minutes as follows:

1. Minutes of the Board of Directors Meeting, September 9, 2015

*Vice President Tobin moved to approve the Consent Calendar. Director Walters seconded the motion and it carried unanimously.*

## **ACTION AND INFORMATIONAL ITEMS**

### III. **COMMITTEE REPORTS**

#### 1. **Water Supply & Reliability Committee (9/3/15)**

Director Walters reported that the committee met on September 3, 2015, and discussed the following:

- Water Supply Status (W & R)
- Groundwater and Surface Water Management Options (W)
- Scope of Work for a Water Management and Reliability Study (W)
- Update from 2x2 Board Member Meetings with Fair Oaks Water District (W)
- Other Matters
- Public Comment

The committee meeting minutes will be attached to the original board minutes.

#### **Water Supply Status (W & R)**

This topic discussed under Agenda Item IV-1.1.

#### **Groundwater and Surface Water Management Options (W)**

Director Walters reported that the committee worked on the groundwater and surface water management options, particularly in regards to reliability. The committee is looking into options to increase reliability which includes use of groundwater.

*For information only; no action requested.*

#### **Scope of Work for a Water Management and Reliability Study (W)**

Director Walters reported that the committee discussed the scope of work for a Water Management and Reliability Study and potential consultants to perform

the study. The committee discussed this at the September 22<sup>nd</sup> committee meeting and will bring back to the next Board meeting.

*For information only; no action requested.*

**Update from 2x2 Board Member Meetings with Fair Oaks Water District (W)**

Director Walters reported that he and Director Rich have met with two board members from Fair Oaks Water District to discuss issues that are facing the two districts and how to work better together in relation to those issues.

Director Rich commented that FOWD will be providing some written suggested revisions on the wholesale water supply agreement.

*For information only; no action requested.*

**Other Matters**

Director Walters reported that the State Water Resources Control Board is looking to identify conservation activities that have been required as part of the drought response and could provide conservation benefits by remaining in force permanently after February 2016. Ms. Lorance commented that the State Water Board is waiting to see if conditions remain dry through February when the current order expires then they will decide to either reissue the order, change it, or make it more stringent going forward. She added that ACWA will be pushing for a temporary order to be separated from a permanent order, which should go through a formal process.

President Costa commented that FOWD invited the Board President and Ms. Lorance to attend their December 14<sup>th</sup> Board meeting and he suggested that the committee members attend the meeting as well. In addition, he suggested that a Board meeting be posted for that date so that any Board member can attend and participate in the meeting. Ms. Lorance informed the Board that the FOWD Board is requesting that she conduct a presentation on opportunities for potential 2016 water transfers that could take advantage of both surface water and groundwater that may be available to the wholesale customer agencies. In addition, FOWD would like to meet to discuss possible collaborative water supply reliability projects.

Director Miller voiced concern that discussions with FOWD will be initiated prior to the Board discussing the options. Director Walters explained that the committee just met yesterday and directors will discuss the topic at the next Board meeting. Mr. Underwood commented that the FOWD Board is interested in hearing about the District's options for moving forward in 2016 including information on transfers. President Costa commented that SSWD might be conducting groundwater transfers with the City of Sacramento and the District might want to consider doing something like this. Director Miller commented that the State is meeting with regard to groundwater and it may become more difficult in the future to conduct groundwater transfers.

*For information only; no action requested.*

## **2. Engineering Committee (9/14/15)**

Director Rich reported that the committee met on September 14, 2015, and discussed the following:

- WTP Flocculation/Sedimentation Basin Improvements Project (W)
- Status Report on SSWD/SJWD Pump Back and PCWA Barton Road Intertie Projects (W & R)
- Report Back on Status of Miscellaneous Wholesale and Retail CIP Projects (W & R)
- Other Engineering Matters
- Public Comment

The committee meeting minutes will be attached to the original board minutes.

### **WTP Flocculation/Sedimentation Basin Improvements Project (W)**

Director Rich informed the Board that the design of the WTP Flocculation/Sedimentation Basin Improvements Project is about 50% complete. He reported that Mr. Durkin informed the committee that there has been some construction inflation and costs have increased which were not budgeted for. However, at this time the design will continue as planned and the committee will discuss the project when the design work is 75% complete and the cost estimate can be refined in order to have a better idea of the increased costs.

*For information only; no action needed*

### **Status Report on SSWD/SJWD Pump Back and PCWA Barton Road Intertie Projects (W & R)**

Director Rich reported that the committee discussed the SSWD/SJWD Pump Back Project, the PCWA Barton Road Intertie Project, and the Flow Control Station Project. He stated that all of the projects are going smoothly and are in the final rounds of completion.

Mr. Durkin commented that testing of the Pump Back Project was delayed until September 28<sup>th</sup> due to delays in procuring some instrumentation components. In addition, Mr. Durkin reported that the PCWA Intertie Project is complete, has been tested, and is capable of delivering water to and from PCWA. Ms. Lorange commented that there has been excellent communication and working relationships between the operations managers of the wholesale customer agencies. Mr. Durkin commended Mr. Tony Barela, SJWD Operations Manager, for being instrumental in the process.

President Costa suggested that a press release be developed to include the projects and the drought for release at the completion of the Pump Back Project.

*For information only; no action needed*

**Report Back on Status of Misc. Wholesale and Retail CIP Projects (W & R)**  
For *Report Back on Status of Misc. Wholesale and Retail CIP Projects*, please see the committee meeting minutes.

**Other Engineering Matters**  
For *Other Engineering Matters*, please see the committee meeting minutes.

#### **IV. INFORMATION AND ACTION ITEMS**

##### **1. GENERAL MANAGER'S REPORT**

###### **1.1 Water Supply Update**

Ms. Lorance conducted a brief presentation which covered the history of San Juan Water District, the mission of the District, the current water supply conditions, projections for water storage at Folsom Reservoir, drought outlook and precipitation outlook, and the successes that the District has had over the past few years in maintaining storage levels in Folsom. A copy of the presentation will be attached to the meeting minutes.

Ms. Lorance informed the Board that releases are at 800 cfs and should be transitioning to 500 cfs in October. It is projected that Folsom will be at 144,000 AF by the end of November.

*For information, no action requested*

###### **1.2 Sacramento LAFCo Special District Representation**

Ms. Lorance informed the Board that President Costa would like the Board to consider supporting the nomination of Ron Greenwood for the position of Special District Representative. President Costa suggested that the Board consider this when the ballot is presented.

*For Information, no action requested*

###### **1.3 Report Back Item**

###### **1.3.1 Meeting with Hidden Lakes Representatives**

Ms. Lorance reported that she, Ms. Judy Johnson and Ms. Lisa Brown met with representatives from Hidden Lakes. Hidden Lakes would like to keep the pond level high enough for fish to survive and are willing to reduce watering in other areas to accomplish this. Ms. Lorance reported that Hidden Lakes has reduced their water use by 50%. Hidden Lakes was informed to submit their request in writing which would outline an alternative plan to accomplish their current water savings. She explained that the Board would then review their request. Director Miller suggested that Legal Counsel review their alternative plan.

*For information, no action requested*

### **1.3.2 Other Items**

Ms. Lorance reported that Ms. Johnson contacted the answering service and informed them to take comments from customers even if they do not provide a name or address.

*For information, no action requested*

### **1.4 Miscellaneous District Issues and Correspondence**

Ms. Lorance reported that a 60-day extension to the comment period on the WaterFix was requested by several members of Congress.

*For information, no action requested*

## **2. ASSISTANT GENERAL MANAGER'S REPORT**

### **2.1 Report Back Items**

#### **2.1.1 USBR CVO American River Group**

Mr. Durkin reported that he attended the September 17<sup>th</sup> meeting of the American River Group with the Bureau at the Central Valley Operations Office. He provided the Board with four pages of the meeting agenda which will be attached to the Board meeting minutes.

Mr. Durkin noted that the chart that Ms. Lorance presented regarding the 90% Runoff Exceedance Outlook shows flows being reduced to 500 cfs in October; however, the Storage Management Conditions summary has a bulleted list which states "Decreased releases are expected in the fall to between 500 cfs and 800 cfs for storage conservation with dry hydrology." He stated that the difference between 500 cfs and 800 cfs is approximately 50,000 AF of storage between October and December.

Mr. Durkin commented that the Bureau might consider staying at 800 cfs if there is precipitation and the fish agencies push the Bureau to maintain flows closer to 800 cfs for the fish habitat. However, the concern that Mr. Durkin has expressed to the Bureau is that any additional water in the next few months needs to be conserved to hold over in case the winter or spring is dry. He stated that staff will continue its vigilance in pushing the Bureau to maintain storage in Folsom.

In response to Director Walters' question, Ms. Lorance responded that this information will be discussed at Cap-to-Cap with legislators. Director Walters voiced concern that local legislators are not aware of the situation of maintaining storage at Folsom. Mr. Durkin commented that he addressed these issues at the

recent tour with the Congressional staff. In addition, there is another tour scheduled with State representatives in November.

Ms. Lorance commented that she communicates with Gaines' office, Bera's office, and Garamendi's office regularly regarding Folsom. She commented that she relies on the District's lobbying firms to get more information out to the legislators, both Federal and State, since District staff time is limited. Director Walters stressed the importance of keeping the message in front of the legislators. Mr. Durkin explained that working with the State Water Resources Control Board is equally if not more important at this time and that is being accomplished every two weeks with conference calls with Tom Howard, SWRCB Executive Director. Vice President Tobin offered to help when needed.

Director Walters suggested that a paragraph of information be sent to state and federal key staff people. Ms. Lorance commented that The Ferguson Group provides information to federal legislators which she distributes via email to the Board in summary format. This information will be included.

*For information, no action requested*

## **2.2 Miscellaneous District Issues and Correspondence**

### **2.2.1 CHWD communication requesting meeting to discuss use of the CTP related to the Pump Back Project**

Mr. Durkin reported that he received a draft letter from CHWD requesting a meeting to discuss use of the CTP related to the Pump Back Project. Mr. Churchill requested that the participants on the CTP be at the meeting. Mr. Durkin informed the Board that a meeting will be set up in October.

*For information, no action requested*

### **2.2.2 Other Items**

Mr. Durkin provided the Board with a handout announcing that the Associated Press will be releasing a multi-media news package on September 25<sup>th</sup> regarding the state of water infrastructure, quality and supply. A copy of the handout will be attached to the meeting minutes. Mr. Durkin informed the Board that the District, including the Board members, may get questions regarding this news release.

Director Miller inquired if staff has ever seen any flow data relative to American River prior to construction of Folsom Dam. He commented that the flows would probably not be at the levels they

are without the dam in place. Mr. Durkin responded that he has not seen flow data prior to the dam being built.

*For information, no action requested*

### **3. DIRECTOR OF FINANCE'S REPORT**

#### **3.1. Report Back Items**

Ms. Silva reported that providing the financial reports to the Board is still on schedule for the November 18<sup>th</sup> Board meeting. In addition, she informed the Board that the FY 2015-16 Retail Budget will be provided to the Board at the October 7<sup>th</sup> Board meeting. She will provide the key schedules and not the entire budget book. She advised that best efforts are being made to have the budget book ready for the October 28<sup>th</sup> public hearing.

*For information, no action requested*

#### **3.2. Miscellaneous District Issues and Correspondence**

Ms. Silva reported that she is working with Standard & Poor's on the bond rating review. She explained that the bond rating review greatly affects the interest rate that the District pays on future debt and can be used to determine the fiscal health of the District.

*For information, no action requested*

### **4. LEGAL COUNSEL'S REPORT**

#### **4.1 Legal Matters**

No report.

### **5. DIRECTORS' REPORTS**

#### **5.1 SGA**

No report.

#### **5.2 RWA**

Vice President Tobin will provide written notes at the next Board meeting. She reported that she attended the September 22<sup>nd</sup> Regional Water Efficiency Program Advisory Committee meeting. She informed the Board that the committee discussed media buys, public outreach, and received several presentations from vendors. She provided some handouts which the Board Secretary will keep on hand.

**5.3 ACWA**

**5.3.1 Local/Federal Government/Region 4 - Pam Tobin**

Vice President Tobin reported that the ACWA Federal Affairs Committee is watching SB20 on the water charge.

**5.3.2 Energy Committee - Ted Costa**

No report.

**5.3.3 JPIA - Bob Walters**

No report.

**5.4 CVP Water Users Association**

No report.

**5.5 Other Reports and Comments**

President Costa reported that he attended the SSWD Board meeting. He commented that a professor from McGeorge School of Law brought her senior students to the meeting.

**V. UPCOMING EVENTS**

1. ACWA Regulatory Summit  
October 14, 2015  
Ontario, CA
2. ACWA Fall Conference  
December 1-4, 2015  
Indian Wells, CA

**VI. ADJOURN**

**The meeting was adjourned at 8:29 p.m.**

---

EDWARD J. "TED" COSTA, President  
Board of Directors  
San Juan Water District

ATTEST:

---

TERI HART, Board Secretary

# AGENDA ITEM III-1 DRAFT

## Water Supply & Reliability Committee Meeting Minutes San Juan Water District September 3, 2015 4:00 p.m.

**Committee Members:** Bob Walters, Chair  
Dan Rich, Director

**District Staff:** Shauna Lorance, General Manager  
Teri Hart, Administrative Assistant/Board Secretary

**Members of the Public:** Bob Churchill, Citrus Heights Water District  
Tom Gray, Fair Oaks Water District  
Michael Schaefer, Orange Vale Water Company  
Sharon Wilcox, Orange Vale Water Company  
Mark Dubose, Orange Vale Water Company  
Ted Costa, San Juan Water District (Alternate)  
Vicki Sacksteder, San Juan Water District  
David Damiano, Customer  
David Damiano, Student

**Topics:** Water Supply Status (W & R)  
Groundwater and Surface Water Management Options (W)  
Scope of Work for a Water Management and Reliability Study (W)  
Update from 2x2 Board Member Meetings with Fair Oaks Water District (W)  
Other Matters  
Public Comment

Director Walters requested that Director Costa fill in for Director Rich as an Alternate Member of the committee until Director Rich arrived at 4:35pm at which point Director Costa returned to the audience as a member of the public and would not participate in discussions.

### 1. Water Supply Status (W & R)

Ms. Lorance reported that Folsom Reservoir was forecasted to be at 183,000 AF by the end of August and currently Folsom is at 192,000 AF. New projections from the Bureau show Folsom hitting 135,000 AF by the end of November. Ms. Lorance explained that the releases will be reduced to 800 cfs by September 4<sup>th</sup> and to 500 cfs in October. She commented that the releases need to be kept at 500 cfs in order to maintain the storage level of 135,000 AF in November; otherwise the level will drop close to 93,000 AF if releases are maintained at 800 cfs.

Ms. Lorance informed the committee that the Bureau is holding a press conference today regarding the Bureau's plans for supplying water to the region. She explained that the Bureau's plan is to utilize an emergency pump located in the penstock which is about ten feet below the M&I intake as a booster pump. This emergency pump would be able to supply water for the reduced fall and winter demands of the District

and the City of Roseville. In addition, the Bureau plans to install a separate pump system that will deliver water to Folsom Prison and the City of Folsom to meet their fall and winter demands. She commented that if the Bureau follows their operation plans, then there should be no need to utilize the emergency pumps.

*For information only; no action requested.*

## **2. Groundwater and Surface Water Management Options (W)**

Ms. Lorance reviewed the updated staff report which contains two items requested from the last meeting under number 11 and 12. A copy of the staff report will be attached to the meeting minutes. She explained that a draft RFP for a consultant was presented to the committee at the July 30<sup>th</sup> meeting and that Mr. Durkin is updating the RFP but is on vacation this week and not available to attend the meeting.

The committee reviewed the list of options and requested that the Pros under items 7 & 8 be changed from “could provide same benefit as SSWD” to “could provide same benefit as a merger.” Ms. Lorance will incorporate the options in the scope of work for the consultant and make sure that the list of options is left open so that the consultant can provide their input and ideas.

*For information only; no action requested.*

## **3. Scope of Work for a Water Management and Reliability Study (W)**

Ms. Lorance informed the committee that Director Rich is interested in discussing a technical advisory committee as mentioned by Mr. Straus at the last committee meeting. Director Walters commented that the Water Supply & Reliability Committee should define the committee and that the committee should be formed after the consultant is hired. In addition, the scope of work for the consultant should include working with the technical advisory committee.

Director Walters commented that the consultant needs to understand that the District is looking at both surface and groundwater options. In addition, the consultant should have an understanding of the groundwater legislation and its impacts to the District.

Ms. Lorance will have a draft RFP with a schedule, scope of work and a rough estimate of the cost range for the committee to review at the October meeting.

*For information only; no action requested.*

## **4. Update from 2x2 Board Member Meetings with Fair Oaks Water District (W)**

Director Walters reported that he and Director Rich have met with Director Randy Marx and Director Dave Underwood of Fair Oaks Water District several times with their last meeting being held this morning. Director Rich informed the committee that the topics of discussion have been the water supply agreement and the

groundwater reimbursement. Director Walters commented that the group has also been discussing allocation of costs and keeping consistent with all projects. In addition, the group discussed better communication between staff before issues are brought to each board.

Director Walters commented that part of the agreement from the Fair Oaks-40 Pipeline settlement was to open discussion regarding the wholesale water supply agreement. Ms. Lorange commented that the general managers have discussed the wholesale water supply agreement, and any wholesale customer agency that is interested in revisions to the wholesale water supply agreement were requested to provide specific wording to be considered. If comments are received, they will be discussed amongst the group. There have not been any received to date. She also commented that there has been one amendment made to the wholesale water supply agreement which changed the billing procedure to bill in the arrears instead of in advance.

In response to Mr. Schaefer's question, Director Walters explained that the 2x2 meetings with FOWD were started at the request of FOWD to better understand concerns or issues, and to improve communication between the two districts. The 2x2 meetings are not similar to the 2x2 meetings which were held with SSWD pertaining to a possible merger.

*For information only; no action requested.*

## **5. Other Matters**

Ms. Lorange informed the committee that the State Water Resources Control Board is looking to identify conservation activities that have been required as part of the drought response and could provide conservation benefits by remaining in force permanently after February 2016. ACWA and water agencies are advocating against any long-term regulation being developed without proceeding through the regular stakeholder process. Director Walters commented that we should see what our process is legally and if an injunction is needed if the list of final conservation elements is unacceptable. Ms. Lorange agreed and also explained that she expects that ACWA will be highly involved in this process for the benefit of all water agencies.

Director Walters commented that it appears the District's pre-1914 water rights must be exercised, or the state and federal agencies will utilize our water to meet Delta and other water release requirements. He suggested asking the legal committee to review this view and our ability to store our water.

*For information only; no action requested.*

**5.1 Next Meeting Date**

The next committee meeting was scheduled for September 22, 2015, at 4:00 pm.

**6. Public Comment**

There was no public comment.

The meeting adjourned at 4:55 pm.

# STAFF REPORT

---

To: Water Supply and Reliability Committee  
From: Shauna Lorance, General Manager  
Date: September 3, 2015  
Subject: Water Management and Reliability Options

---

## RECOMMENDED ACTION

Consider the revised list of options provided as a starting point for a Water Management and Reliability Study.

## BACKGROUND

SJWD Board of Directors initiated a study with SSWD to analyze the possibilities for better water management. After four years of studying, including:

1. Phase 1 – High level evaluation of water management benefits and options
2. Phase 2 – Study of all elements of a potential merger, beginning with Phase 2A

SSWD elected to suspend Phase 2 of the study and not proceed to Phase 2B at this time. SJWD Board of Directors considers better management of groundwater and surface water for the benefit of the ratepayers an important goal. With the potential for SSWD delaying for the long term the completion of the study of merging SSWD and SJWD, SJWD is evaluating other options for meeting the District's goal.

## CURRENT STATUS

The Water Supply and Reliability Committee has been charged with identifying options for better water management of groundwater and surface water for the District's customers. The committee reviewed the options developed by staff at the July 30, 2015 meeting and requested the addition of options 11 and 12.

	Option	Pros	Cons
1	Work with Roseville to use existing ASR wells	reduced capital costs; already permitted; facilities installed; CVP contractor so possible use of CVP water	limited ability to provide dry year water to SJWD; agmt could be terminated in future; requires cooperation and agreements of more than one agency

<b>2</b>	Work with PCWA to coord gw and sw	west placer an opportunity; possibility to have access to sw above Folsom; CVP contractor so possible use of CVP water	agmt could be terminated in future; requires cooperation and agreements of more than one agency
<b>3</b>	Work with PCWA on treatment plant capacities; ours and theirs	possible access to sw above Folsom; more use of SJWD WTP during wet years	does not provide dry year reliability
<b>4</b>	Work with other GW agency	possible ability to manage gw and sw	same restrictions as SSWD wo merger
<b>5</b>	Install gw wells along CTP	control of gw and sw by one agency; efficient transmission of water	may not be gw along route; WCA may have concerns
<b>6</b>	Install gw wells in SJWD boundaries (wholesale area)	control of gw and sw by one agency; likely adequate gw	WCAs may have concerns; transmission pipelines could be costly
<b>7</b>	Purchase Cal AM Citrus Heights service area	would provide same benefits as SSWD	cost to purchase system likely very high so Cal Am customer water rates would increase
<b>8</b>	Consolidate/merge with another agency	could provide same benefit as SSWD	have not identified willing partner
<b>9</b>	Develop additional sw storage	would provide sw storage under SJWD control;	good location could be hard to find; would have environmental responsibilities
<b>10</b>	Work with WCAs on conjunctive use	within existing wholesale service area;	would require agreements and cooperation; agreements could be terminated; would require sw injection as in lieu not an option
<b>11</b>	Purchase groundwater wells from WCAs to manage both surface and groundwater	Would allow management of <b>ALL</b> surface and groundwater within wholesale service area for optimal use of each water source	WCAs may not be interested; unsure of condition of gw wells and possible cost of rehabilitation and treatment requirements for continuous use
<b>12</b>	Maintain Status Quo	Would not require any additional efforts; would avoid any disagreements related to SJWD obtaining gw production facilities	Significantly limits, if not removes, ability to optimally manage conjunctively gw and sw.

**Engineering Committee Meeting Minutes  
San Juan Water District  
September 14, 2015  
4:00 p.m.**

**Committee Members:** Dan Rich, Chair  
Ken Miller, Director

**District Staff:** Keith Durkin, Assistant General Manager  
Rob Watson, Engineering Services Manager  
Andrew Pierson, Associate Engineer  
Teri Hart, Board Secretary/Administrative Assistant

**Topics:** WTP Flocculation/Sedimentation Basin Improvements Project (W)  
Status Report on SSWD/SJWD Pump Back and PCWA Barton Road  
Intertie Projects (W & R)  
Report Back on Status of Miscellaneous Wholesale and Retail CIP  
Projects (W & R)  
Other Engineering Matters (W & R)  
Public Comment (W & R)

**1. WTP Flocculation/Sedimentation Basin Improvements Project (W)**

Mr. Durkin informed the committee that Kennedy/Jenks (K/J) is proceeding with the design of the WTP Flocculation/Sedimentation Basin Improvements Project. The preliminary, or approximate 10% design is complete and two workshops have been held with staff. The project scope of work includes replacing the flocculators, replacing the sludge collection system in the sedimentation basins, constructing a second settled water channel, and completing other work in the basins.

The project cost through completion of construction was estimated and budgeted in the CIP at \$6.7 million. The construction cost is now estimated to be approximately \$7.4 million. Mr. Durkin informed the committee that the total costs through construction may be approximately \$1 million over the total CIP project budget. He explained that costs have gone up for most items; there is no one item driving the budget higher. In addition, the original plan was to restore and retrofit the sludge collection equipment, which is now estimated to cost approximately \$900,000. However, a totally new system including an extended warranty is only \$300,000 more compared to refurbishing the existing equipment and will provide a longer lifespan. Staff is recommending this option.

Mr. Durkin reviewed the schedule and the necessary construction sequencing to manage plant outages with the committee. Construction of the project will take approximately one year to complete.

The committee discussed the updated engineer's cost estimate and the timeline for the project. In response to Director Miller's question, the committee discussed options to break the project up into stages to manage the budget. Mr. Durkin recommends that design proceed as planned and the committee discuss the project

when the design work is 75% complete and the cost estimate can be refined in order to have a better idea of the increased costs.

For information only; no action needed

## **2. Status Report on SSWD/SJWD Pump Back and PCWA Barton Road Intertie Projects (W & R)**

Mr. Durkin introduced Andrew Pierson, the District's Associate Engineer. Mr. Pierson provided an update on the Drought Response Projects which include the SSWD/SJWD Pump Back Project, the PCWA Barton Road Intertie Project, and the Flow Control Station Project.

### SSWD/SJWD Pump Back Project

Mr. Pierson informed the committee that there was a meeting earlier today with the wholesale customer agencies to discuss the testing of the system. Testing of the pump back pump station will begin on September 22<sup>nd</sup>. He stated that the project is on schedule and within budget. The estimated completion date is mid-October even though there were some slight delays in procurement of some equipment.

Mr. Durkin informed the committee that CHWD submitted a letter stating their concerns with the project and he sent a response letter. The main item of concern is that the CTP will be used for something different than what it was constructed for and CHWD should possibly receive compensation for loss of use. In addition, FOWD has voiced concern regarding the quality of water coming from SSWD. Mr. Durkin stated that at the request of CHWD a meeting will be set with the wholesale customer agencies to discuss the use of the CTP to utilize the pump back project.

Mr. Pierson informed the committee that both CHWD and FOWD have requested that their valves on the CTP to their agencies be closed when SSWD water is pumped during testing.

### PCWA Barton Road Intertie Project

Mr. Pierson informed the committee that the project is substantially complete and was within budget. There are a few minor items to complete such as installing some drought tolerant landscaping. The intertie was tested last Thursday and Friday and was very successful. There is now the ability to receive or deliver 2 MGD between PCWA and SJWD.

### Flow Control Station Project

Mr. Pierson reported that the notice to proceed was issued for the Flow Control Station Project on September 1, 2015 and the project is scheduled to start on September 22<sup>nd</sup>. It is anticipated that the project will be completed by the first week of December. He explained that this project is related to the SSWD/SJWD Pump Back Project. Mr. Durkin explained that the current valves on the pipeline can only be turned all the way on or all the way off and that the new valves provide pressure control and will adjust water deliveries with the agency's system demands.

In response to Director Rich's question, Mr. Durkin informed the committee that the District has planned as much as possible for the worst case scenario of receiving

little or no water from Folsom Reservoir due to the drought. Mr. Durkin informed the committee that the Bureau has plans to make sure that the District receives water and that they anticipate being able to deliver water in the event that Folsom drops to as low as 55,000 AF. Mr. Durkin explained that the Bureau's plan is to use the emergency pump in the penstock which is located below the M&I intake; however, he commented that the capacity will be greatly reduced.

*For information only; no action needed*

### **3. Report Back on Status of Misc. Wholesale and Retail CIP Projects (W & R)**

Mr. Durkin introduced Rob Watson, Engineering Services Manager. Mr. Watson provided an update on the Auburn Folsom Road Widening Project, Upper and Lower Granite Bay Booster Pump Stations Project, 2015 Water Mains Replacement Project, ARC Flash Project, and the Security Project.

#### Auburn Folsom Road Widening Project

Mr. Watson informed the committee that the north phase of the Auburn Folsom Road Widening Project for the 24" transmission pipeline is complete. The District installed 3,300 lineal feet during this phase and a total of 10,000 lineal feet in order to connect the Granite Bay Booster Pump Station located at Eureka Road to Hinkle Reservoir. The system is now in service.

#### Upper and Lower Granite Bay Booster Pump Stations Project

Mr. Watson reported that the Lower Granite Bay Booster Pump Station was moved from its location at Eureka Road to just west of Hinkle Reservoir within the District gates. The pump station has been in use since July 7<sup>th</sup>. The contractor is finishing some punch list items.

Mr. Watson informed the committee that contractors are working on the Upper Granite Bay Booster Pump Station. The new pump station will be housed in a new building at the Eureka Road location. It is anticipated that the project will be completed by December.

#### 2015 Water Mains Replacement Project

Mr. Watson informed the committee that the 2015 Water Main Replacement Project consisted of replacing five pipelines, and four of the five pipelines are complete. He reported that the last pipeline involves 4,500 lineal feet and 55 service connections.

Mr. Watson informed the committee that in total 7,800 lineal feet of pipeline will be replaced this year out of the 217 miles of pipeline in the system. He expects that same amount to be replaced next year. The design and construction management of these projects are completed in-house with District engineering department staff. He explained that the GIS system is being updated and, once updated, staff will be able to map the entire system and include pipeline details such as exact location, age, material and condition.

#### ARC Flash Project

Mr. Watson reported that bids are due for the ARC Flash Project on September 29<sup>th</sup>. The project is a safety project to identify and mitigate shock hazards with high

voltage panels and equipment and assure that the District meets code requirements. He explained that OSHA requires certain protections in place, such as controlled access, signage, and personal protection clothes.

#### Security Project

Mr. Watson reported that the Security Project is out for bid. Staff worked with Legal Counsel to determine the correct way to announce the project since security measures needed to be in place. It was determined that the project information could be released to specific qualified contractors.

#### **4. Other Engineering Matters**

Mr. Durkin informed the committee that the 2-year warranty inspection on the WTP Clarifiers is being completed.

In response to Director Rich's question, Mr. Durkin reported that the engineering report on the next phase of the FO-40 pipeline project got delayed due to his workload on the SSWD merger work and water transfer and the report is 75% complete. Mr. Durkin will finish the work on the report in the near future.

##### 4.1 Next Meeting Date

The next committee meeting will be scheduled when needed.

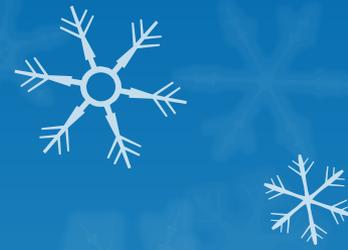
#### **5. Public Comment**

There were no public comments.

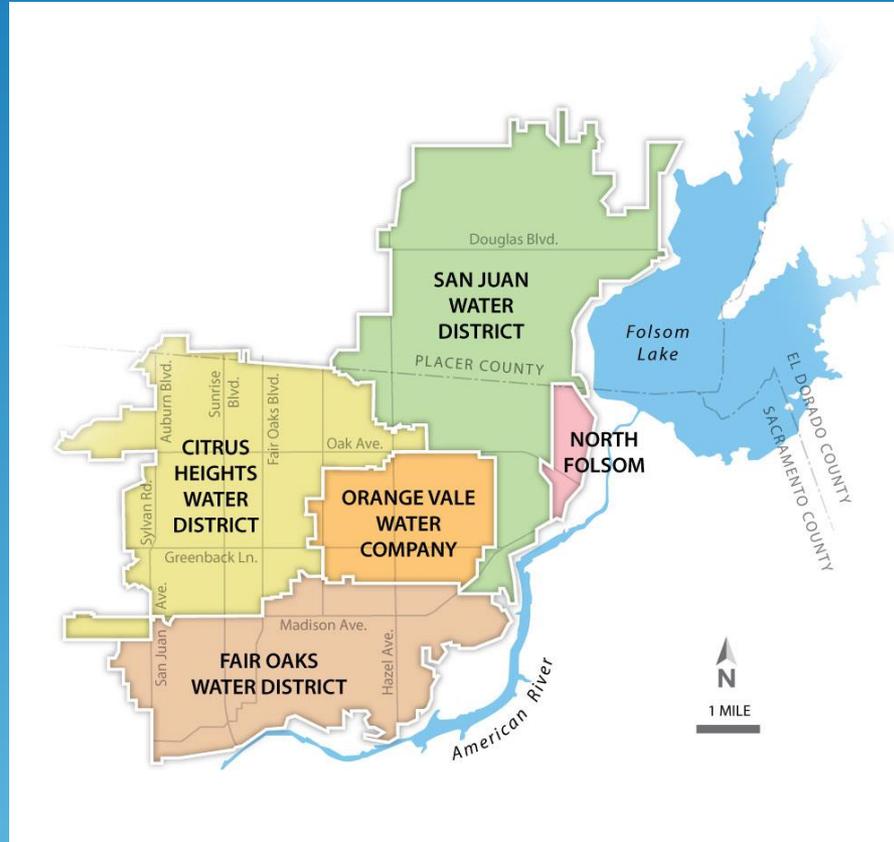
The meeting was adjourned at 4:58 p.m.

# SAN JUAN WATER DISTRICT Update on Water Supply

Shauna Lorance  
General Manager  
September 23, 2015



# Who is SJWD



# What Do We Do?

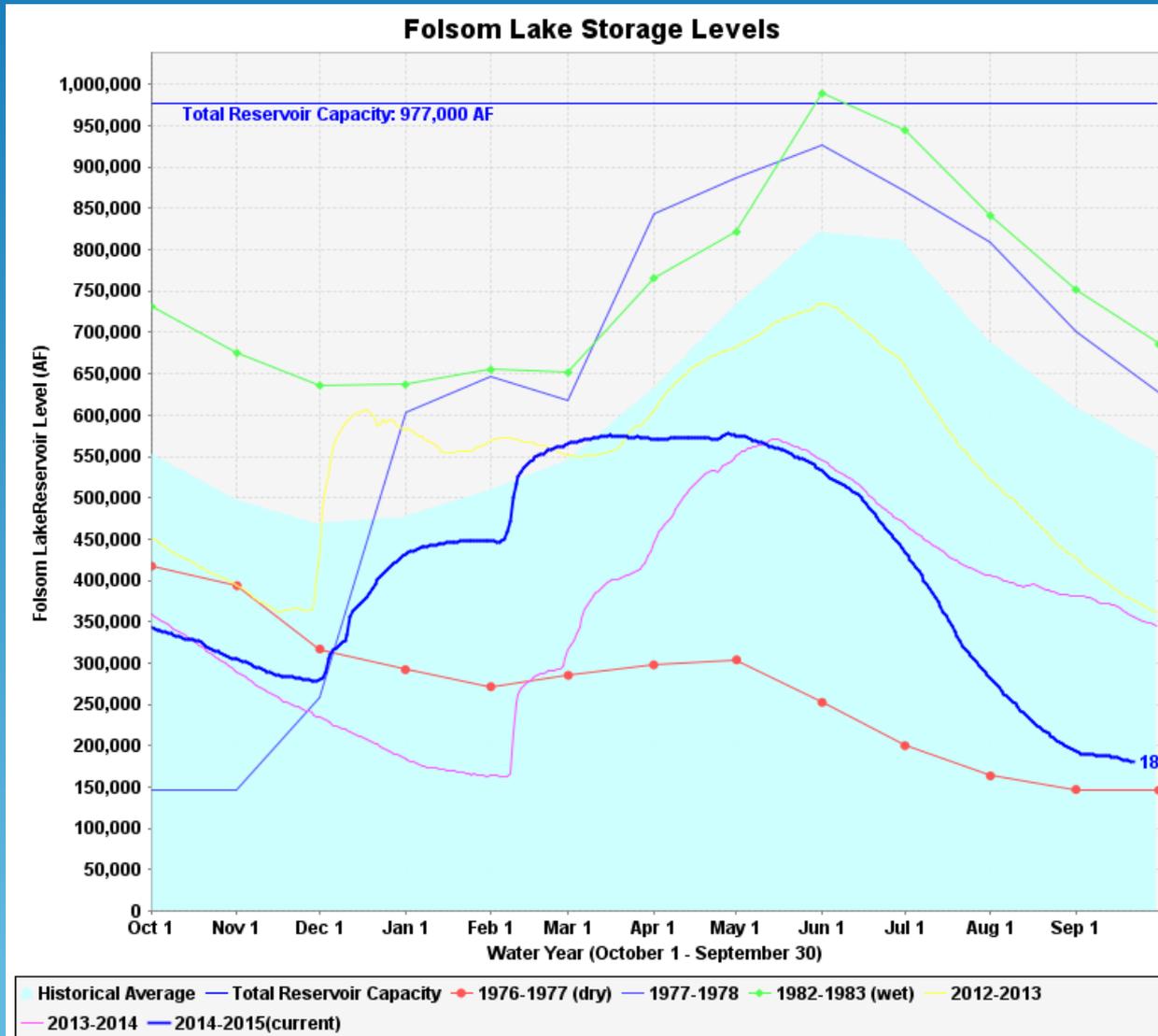
- Water Supply Reliability
  - Statewide Efforts
  - Federal Efforts
- Water Treatment
- Delivery to Wholesale Customer Agencies who retail to customers



# How Were We Formed

- Petitioned for the formation of CSD to Sacramento County - Oct 13, 1953
- Election - Feb 10
- Sacramento County declared district to be duly organized – Feb 15, 1953
- Certificate of County Clerk:
- Certified copies of resolution with:
  - Recorder
  - Assessor
  - Secretary of State
  - State Board of Equalization
- State of California, Secretary of State, filed formation of SJWD in Placer and Sacramento Counties as a CSD (Title 5, Division 3, Part 2, of the Government Code)

# Current Water Supply Situation



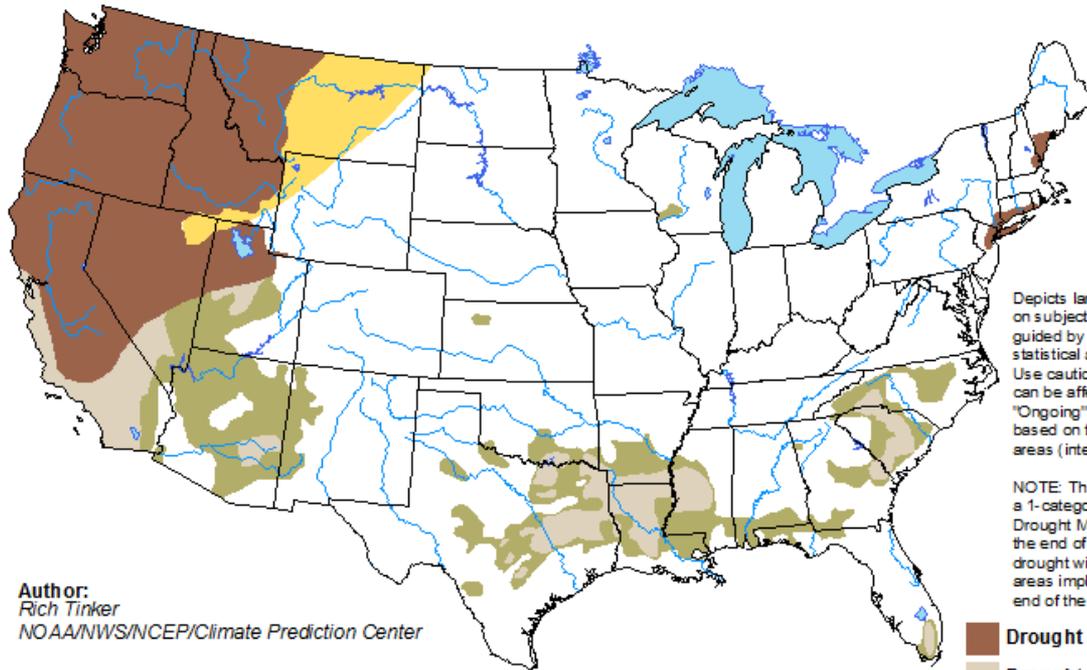
# Projections

- September 2015 outlook (90% exceedance)

	<b>Sept</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>
TAF storage	170	149	144	166
Elevation	359	353	351	358
American River Flows	802	500	500	500

# Drought Outlook

## **U.S. Seasonal Drought Outlook** Valid for September 17 - December 31, 2015 **Drought Tendency During the Valid Period** Released September 17, 2015

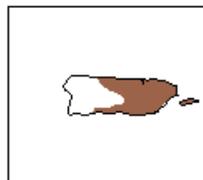
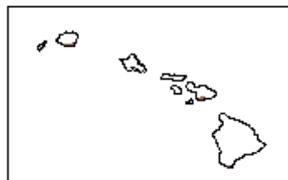
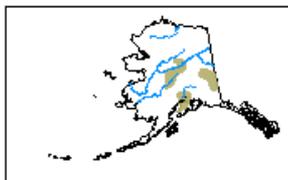


**Author:**  
Rich Tinker  
NOAA/NWS/NCEP/Climate Prediction Center

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

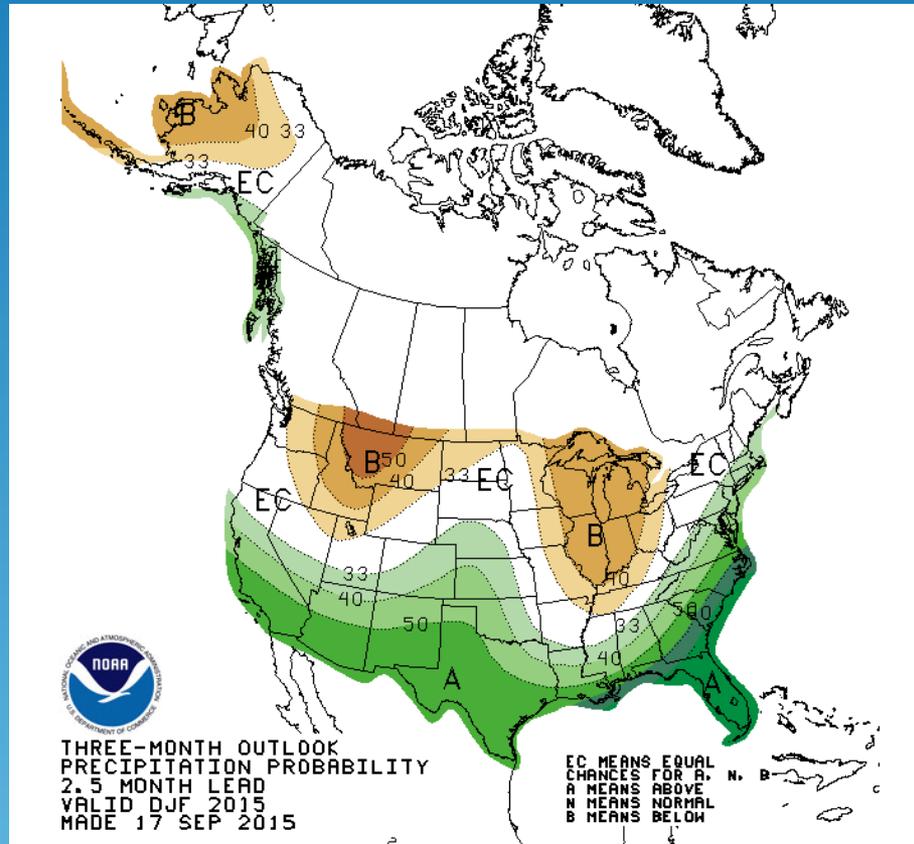
NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

-  Drought persists/intensifies
-  Drought remains but improves
-  Drought removal likely
-  Drought development likely



<http://go.usa.gov/3eZ73>

# Precipitation Outlook



# Successes

- American River Flows
  - 1500 cfs to 500 cfs over four years
  - Temperature vs. flows
  - Flow Management Standard
- Statewide Awareness of Folsom Lake Water Level
- Minimum Folsom Lake Level in December
  - After two years drought
  - Alters release pattern to time when hydrology is more know

QUESTIONS?



## **American River Group**

Thursday, September 17, 2015 1:30 PM  
Central Valley Operation Office, Room 302  
3310 El Camino Ave.  
Sacramento, California 95821

1. Fishery Updates
2. Operations Forecast
3. Temperature Management
4. Status Reports
5. Schedule Next Meeting
6. Adjourn

**DAILY CVP WATER SUPPLY REPORT**

SEPTEMBER 16, 2015

RUN DATE: September 17, 2015

**RESERVOIR RELEASES IN CUBIC FEET/SECOND**

RESERVOIR	DAM	WY 2014	WY 2015	15 YR MEDIAN
TRINITY	LEWISTON	1,002	2,732	471
SACRAMENTO	KESWICK	5,499	6,670	7,626
FEATHER	OROVILLE (SWP)	1,500	1,200	3,500
AMERICAN	NIMBUS	1,372	859	1,522
STANISLAUS	GOODWIN	152	152	206
SAN JOAQUIN	FRIANT	1,298	182	246

**STORAGE IN MAJOR RESERVOIRS IN THOUSANDS OF ACRE-FEET**

RESERVOIR	CAPACITY	15 YR AVG	WY 2014	WY 2015	% OF 15 YR AVG
TRINITY	2,448	1,492	660	594	40
SHASTA	4,552	2,429	1,227	1,677	69
OROVILLE (SWP)	3,538	1,862	1,086	1,054	57
FOLSOM	977	483	368	185	38
NEW MELONES	2,420	1,315	529	280	21
FED. SAN LUIS	966	245	228	73	30
MILLERTON	520	250	199	178	71
TOT. N. CVP	11,360	5,964	3,012	2,809	47

**ACCUMULATED INFLOW FOR WATER YEAR TO DATE IN THOUSANDS OF ACRE-FEET**

RESERVOIR	CURRENT WY 2015	DRIEST WY 1977	WETTEST WY 1983	15 YR AVG	% OF 15 YR AVG
TRINITY	889	211	2,876	1,185	75
SHASTA	3,529	2,493	10,660	4,931	72
FOLSOM	862	347	6,469	2,167	40
NEW MELONES	321	0	2,724	878	37
MILLERTON	305	353	4,605	1,441	21

**ACCUMULATED PRECIPITATION FOR WATER YEAR TO DATE IN INCHES**

RESERVOIR	CURRENT WY 2015	DRIEST WY 1977	WETTEST WY 1983	AVG (N YRS)	% OF AVG	LAST 24 HRS
TRINITY AT FISH HATCHERY	27.36	14.16	56.67	31.82 ( 53 )	86	0.02
SACRAMENTO AT SHASTA DAM	51.42	18.16	114.50	61.44 ( 58 )	84	0.00
AMERICAN AT BLUE CANYON	46.37	16.97	104.10	64.53 ( 40 )	72	0.04
STANISLAUS AT NEW MELONES	19.58	0.00	46.38	26.65 ( 37 )	73	0.00
SAN JOAQUIN AT HUNTINGTON LK	17.27	17.50	83.20	41.32 ( 40 )	42	0.00

## **American River Summary Conditions – September (On-going):**

- Sacramento River Temperature Management Decision– Limited summer Keswick releases (7,200 cfs June through August and modified to extend 7,200 cfs through mid-Oct) to protect Winter Run salmon
- Higher American River releases in the summer will be needed to support Delta Water quality and protect Sacramento River Basin fishery
- Delta project pumping have been significantly reduced
- Early Folsom Reservoir de-stratification concerns

## **Storage Management Conditions:**

- Contingency plans are under development to maintain the Folsom Lake M&I diversion capacity with a target completion date of early November (actual operation may be sooner).
- Folsom Storage target of at least 120 TAF (343 ft) through December
- Decreased releases are expected in the fall to between 500 cfs and 800 cfs for storage conservation with dry hydrology
- If poor hydrology continues into late fall, then Folsom Lake storage will remain very low

## **Temperature Management Options:**

- Continue exercising real-time management capabilities
- Temperature target location upstream of Watt Ave. Bridge (a technique applied in the Sacramento River for temperature management)
- Delay shutter changes and allow warmer temperatures earlier in the season
- De-gang shutters to improve temperature performance
- Strategically use Lower River Outlets/Power Bypass
- Coordinated releases with the California State Water Project (SWP) Feather River releases for Delta Management
- Structure potential water transfers and release timing to help lake storage and temperatures

## **Fishery Strategy:**

- Target warmer temperatures over the management season to avoid peaking high temperatures in the fall
- Avoid increasing downstream temperatures
- Daily average temperature target of 71°F downstream of Nimbus Dam (approximately a daily average temperature of 75°F at Watt Avenue Bridge).
- Retain a cold water pool volume below 60°F at the end of September of approximately 39 TAF
- Maintain a spawning habitat for fishery that minimizes the potential of dewatering
- If conditions are favorable, begin cooling mid-October to reduce Fall Run pre-spawn stress
- Daily average temperature target 60°F downstream of Nimbus Dam by the beginning of November by using the lower river outlet gates/bypass

# DRAFT September 2015

## 90% Runoff Exceedance Outlook:

Inflow based on PCWA/SMUD adjusted inflow Sep-Nov and includes Water Transfer, 90% Historical inflow Dec, minimal Delta project pumping

### Federal End of the Month Storage/Elevation (TAF/Feet)

		Sep	Oct	Nov	Dec
Folsom	195	170	149	144	166
Elev.		359	353	351	358

### Monthly River Releases (cfs)

American		802	500	500	500
----------	--	-----	-----	-----	-----

Please note:

CVP actual operations do not follow any forecasted operation or outlook; actual operations are based on real-time conditions.

CVP operational forecasts or outlooks consider general system-wide dynamics and do not necessarily address specific watershed/tributary details.

CVP releases represent monthly averages.

CVP operations are updated monthly as new hydrology information is made available December through May.

American River releases will be adjusted real-time to meet minimum flow requirements as necessary

## Teri Hart

---

**From:** Keith Durkin  
**Sent:** Wednesday, September 23, 2015 5:01 PM  
**To:** Teri Hart  
**Subject:** FW: AWWA Public Affairs Advisory - Associated Press series on water

---

**From:** AWWA Public Affairs [mailto:publicaffairs@awwa.org]  
**Sent:** Wednesday, September 23, 2015 4:31 PM  
**To:** Keith Durkin  
**Subject:** AWWA Public Affairs Advisory - Associated Press series on water

Having trouble viewing the email below? Please [click here](#).  
Note: To ensure delivery to your inbox please add [publicaffairs@awwa.org](mailto:publicaffairs@awwa.org) to your address book

## Public Affairs Advisory

**Who:** AWWA  
**What:** Associated Press series on water  
**When:** Friday

AWWA has learned that on Friday the Associated Press will release a multi-media news package about the state of water infrastructure, quality and supply.

AP has been working on this series for several months, and water utilities should be prepared to answer local questions that arise from the reports. Utilities may wish to reach out to their local media before Friday, offering to provide perspective that makes the series more relevant to local audiences.

The overarching theme of the package, [as stated in an article](#) that appeared online before the official series release date, appears to be:

“Around the country, scores of decaying drinking water systems built around the time of World War II and earlier are in need of replacement. The costs to rebuild will be staggering. The costs of inaction are already piling up. The challenge is deepened by drought conditions in some regions and government mandates to remove more contaminants.

“At stake is the continued availability of clean, cheap drinking water — a public health achievement that has fueled the nation’s growth for generations.”

Among the topics the series will explore are:

- Aging and failing pipes  
AWWA urges members to use the AP series as a springboard for urging Congress to repeal the ban on using tax-exempt debt in combination with Water Infrastructure Finance and Innovation Act (WIFIA) loans. Key points: 1) Two trillion dollars in water and wastewater projects are needed over the next 25 years. 2) WIFIA could fix more with less if only tax-exempt debt were allowed to fund the non-WIFIA portion of projects.

Find more information on how Congress can [improve WIFIA here](#). AWWA’s [Buried No Longer report](#) is also helpful in framing the scope of the drinking water infrastructure challenge.

- Increasing rates
- Harmful algal blooms and cyanotoxins (Find helpful resources in AWWA’s [Cyanotoxins Resource Community](#))
- Nitrates from farm fertilizers, with reference to blue baby syndrome

- Drought and climate change
- Desalination, reuse, potable reuse (Access the new [Framework for Direct Potable Reuse here.](#))
- State Revolving Funds and finance issues (It appears at least one story will point out that “the largest federal aid program for improving the nation's crumbling drinking water infrastructure has struggled to spend money in a timely fashion despite demand that far outpaces the amount available.”)
- Lead (Consumer information on lead is available on [Drinktap.org](#)).

While the series has not been formally released, there are [portions of it](#) posted on a few news outlets. A [series of photos](#) from the series suggests there will be some local focus on Ames and Des Moines, Iowa; Orange County (Fountain Valley) and Carlsbad, Calif., Philadelphia, Pa.; Toledo, Ohio; Pretty, Prairie, Kan.; New Orleans, La.; Flint and Detroit, Mich.

AWWA has many technical and communications resources on each of the topics listed above. Please contact [Greg Kail](#) in AWWA Communications with questions.

---

### **AWWA Delivers Valuable Member Benefits**

Members receive news and information, periodicals and Section membership, as well as discounts on technical resources, conferences and other online learning opportunities. [Learn more.](#)

Comments or questions? Email [custsvc@awwa.org](mailto:custsvc@awwa.org).  
We welcome your thoughts and suggestions.

This email was sent by the American Water Works Association  
6666 W. Quincy Ave., Denver CO 80235

This was sent to 00234739 [kdurkin@sjwd.org](mailto:kdurkin@sjwd.org). You were added to the system June 11, 2009. For more information [click here](#).

AWWA may send emails regarding member benefits or announcements for products or training events. To update your specific email preferences, click [Manage Preferences](#)

If you do not wish to receive any emails from AWWA, reply to this message with the word Remove in the subject line or click [Unsubscribe](#).

■