CALL TO ORDER/PLEDGE OF ALLEGIANCE/ROLL CALL

1. **PUBLIC COMMENT** - Any person may address the Board on matters within its jurisdiction.

2. **APPROVAL OF MINUTES**
   2.1. November 21, 2017, Meeting (Page 4)

3. **DISCUSSION AND POSSIBLE ACTION ITEMS**
   3.1. Consider Annexation No. 62 to the San Bernardino Valley Municipal Water District (Page 11)
       Staff Memo for Annexation No 62
       Vicinity Map for Annexation No. 62
       Resolution No 1062
   3.2. Consider Extension of CLAWA Agreement (Page 21)
       Staff Memo CLAWA Amendment
       Amendment 1 CLAWA Agreement
       LF2052 CLAWA Sale and Extension
   3.3. Consider Management Reorganization Plan (Page 38)
       Staff Memo Reorganization
       SBVMWD Org Chart
       SBVMWD Proposed Re-organization
   3.4. Consider Design for Water Treatment of State Project Water (Page 43)
       Staff Memo Consider Design for SWP Water Treatment

4. **REPORTS (DISCUSSION AND POSSIBLE ACTION)**
4.1. Meeting Summary for Strategic Analysis/Plan Committee Workshop, November 9, 2017
Summary Notes Strategic Analysis/Plan Cmte 110917

4.2. Board of Directors' Workshop, November 14
Summary Notes BOD Workshop 111417

4.3. Water Use Efficiency, November 15
Summary Notes Water Use Efficiency Cmte 111517

4.4. SAWPA Commission Workshop, December 5

4.5. Directors' Activities

5. ANNOUNCEMENTS

5.1. List of Meetings
List of Announcements
2017 SBVMWD Board and Cmte Meetings

6. CLOSED SESSION

6.1. Conference with Legal Counsel - Anticipated Litigation - Pursuant to Government Code Section 54956.9 (4) (d) - Three cases

6.2. Conference with Legal Counsel - Anticipated Litigation - Pursuant to Government Code Section 54956.9(d)(2),(3) - 1 case (Bay-Delta WaterFix Project and the Bay-Delta Water Quality Control Plan Update)


6.7. Conference with Legal Counsel – Existing Litigation – Pursuant to Government Code Section 54956.9(a),(d)(1) – Coalition to Protect Highland v City of Highland Case No. CIVDS1604787 (San Bernardino Superior Court)

6.8. Conference with Legal Counsel – Existing Litigation – Pursuant to Government Code Section 54956.9(d)(1) – Sterling Natural Resource Center Litigation – Southern California Environmental Justice Alliance v. San Bernardino Valley Municipal Water District and City of San Bernardino v. San Bernardino Valley Municipal Water District (San Diego County Superior Court No. 37-2016-00032816-CU-TT-CTL) and City of San Bernardino v. East Valley Water District (San Diego County Superior Court No. 37-2016-00038119-CU-WM-CTL); Wastewater Change Petition No. 0095 Filed by San Bernardino Valley Municipal Water

6.9. Conference with Legal Counsel – Existing Litigation – Pursuant to Government Code Section 54956.9(a),(d)(1) – San Bernardino Valley Municipal Water District et al v. San Gabriel Valley Water Company et al – Case No. CIVDS1311085 (San Bernardino Superior Court)

6.10. Conference with Legal Counsel – Pending Litigation – Pursuant to Government Code Section 54956.9(a),(d)(1) – Inland Valley Development Agency v San Bernardino Valley Municipal Water District et al – Case No. CIVDS1621986 (San Bernardino Superior Court)

6.11. Conference with Legal Counsel - Initiation of Litigation - Pursuant to Government Code Section54956.9(d)(4) - 1 case


7. **ADJOURNMENT**
Directors Present: Susan Longville, Gil Navarro, Mark Bulot, Steve Copelan, and June Hayes

Directors Absent: None

Staff Present: Douglas Headrick, Cindy Saks, Mike Esquer, and Brendan Brandt

Registered Guests:
Linda Gonzalez, West Valley Water District
Eliseo Ochoa, East Valley Water District
Charles Roberts, Highland Community News
Joshua Monzon, Senator Mike Morrell’s Office
Michelle Diamond, Tetra Tech, Inc.
Milford Harrison, San Bernardino Valley Water Conservation District
Melody McDonald, San Bernardino Valley Water Conservation District
Richard Corneille, San Bernardino Valley Water Conservation District
Chris Closser
David E. Raley, San Bernardino Valley Water Conservation District

The regular meeting of the Board of Directors was called to order by President Longville at 2:30 p.m. at the District office, 380 E. Vanderbilt Way, San Bernardino. A quorum was noted present.

Agenda Item 1. Public Comment.

President Longville invited any members of the public to address the Board. Linda Gonzalez, West Valley Water District Boardmember stated that her last day on the Board of Directors would be December 7, 2017. She thanked the Board for their support during her tenure and wished everyone a happy holiday. The Board thanked Ms. Gonzalez for her years of service at WVWD.

The meeting proceeded with the published agenda items.
Agenda Item 2. Approval of Minutes of the November 7, 2017, Board Meeting.

Director Copelan moved to approve the minutes of the November 7, 2017, Board meeting. Director Hayes seconded. The motion was unanimously adopted.

Agenda Item 3. Discussion and Possible Action Items.

3.1) Consider Proposal from RAND Corporation to Estimate Future Demand in the Valley District Service Area. Douglas Headrick stated that this item was being forwarded from the Strategic Analysis and Plan Committee to the full Board for consideration. At the November 9th workshop, the revised proposal was discussed. Staff has been working with the RAND Corporation on various scopes of work. Staff was requested that the scope be refined and that staff bring back a new proposal from the RAND Corporation to estimate future water demand in the San Bernardino Valley Municipal Water District (SBVMWD) service area. Staff recommended that the Board approve the contract that will assist staff with confirming the estimates it has by using additional tools to determine the range of demand it can expect. Staff will return to the Board to determine what to do about the forecast. Staff recommended that the Board authorize staff to enter into a contract with the RAND Corporation to conduct a study of the future water demand in SBVMWD’s service area for a total cost of $44,142.

Director Navarro moved to authorize staff to enter into a contract with the RAND Corporation to conduct a study of the future water demand in SBVMWD’s service area for a total cost of $44,142. Director Hayes seconded. The motion was unanimously adopted.

3.2) Consider Additional Funding for the USACE for the City Creek Scour Project. Mike Esquer stated that this item was discussed at the Board of Directors’ Workshop on November 14th and was being forwarded to the full Board for consideration. District staff has been working with the United States Army Corps of Engineers (USACE) since 2009 for the protection of the District’s pipeline across City Creek channel due to scour and erosion issues. Due to the recent discovery of several endangered species in the section of the stream channel, the USACE needs to perform additional analysis thereby increasing the cost of the study by $28,000. The information will be used for the federal and state environmental documents for the project. Staff recommended that the Board authorize the general manager to provide the United States Army Corps of Engineers with the additional funds of $28,000 to complete the Section 14 study.

Director Hayes moved approval of authorizing the general manager to provide the United States Army Corps of Engineers with the additional funds of $28,000 to complete the Section 14 study. Director Bulot seconded. The motion was unanimously adopted.

Anthony Serrano stated that he was not opposed to this item but is concerned with the cost. He would like to have information in the staff reports that indicate whether the District has researched whether there was grant or other funding available to it for the project in question.
3.3) Consider Equipment Procurement for Waterman Turnout Hydroelectric Project. Mike Esquer stated that the District has been working with NLine Energy to develop a turbine generator for the Waterman Turnout. As part of the project, some of the long lead time items have been procured in advance. Staff has moved forward with permitting with the San Bernardino County Flood Control District since the turnout is on their property. The District has an easement on their property. As discussed at previous workshops and Board meetings, there was a redesign of the project so that the facility is completely within the easement. Staff wants to bid the project in early 2018 and begin construction soon thereafter. The last long lead time item is in the bypass portion of the project and is to replace the original sleeve valve that is cracked. NLine Energy and District staff have evaluated several types of flow control valves for controlling flow delivery of State Water Project (SWP) water to the Waterman basins when the hydro-generation facility is not operating. The Hartman sleeve valve meets all of the operating conditions of the project and the supplier provided a quote for approximately $85,000 with estimated taxes and delivery charges included. It is estimated that the time required to manufacture the valve will be four and a half to five and a half months. Staff recommended that the Board of Directors authorize the general manager to procure the Hartman Valve for $85,000.

Director Copelan moved approval of authorizing the general manager to procure the Hartman Valve for $85,000. Director Navarro seconded. The motion was unanimously adopted.

3.4) Consider Purchase of Additional Sites Reservoir Class I Water. Richard Corneille, Chair of the Advisory Commission on Water Policy, stated that a year ago the Advisory Commission on Water Policy made a recommendation to the Board on the project. He would like to know how this item affects their recommendation.

Douglas Headrick stated that this item does not affect the Advisory Commission’s recommendation to the Board of Directors since the price per acre-foot of Class 1 water has not changed.

This item was discussed at the Board of Directors’ Workshop on November 14th. On July 19, 2016, the Board authorized staff to sign and submit a Phase 1 Proposal to Participate Form for 30,000 acre-feet of annual water supply from the Sites Reservoir Project at a cost not-to-exceed $1.8 million or approximately $60.00 per acre foot of water. On January 3, 2017, the Board authorized staff to sign the Sites Project Authority’s Amended and Restated Phase 1 Reservoir Project Agreement and pay up to $1,040,187. This amount covered the District’s initial allocation of Class 1 water which was 17,069 acre-feet and Class 2 water of 12,931 acre-feet. Additional Class 1 water in the amount of 4,334 acre-feet has been provided to the District and there is an associated cost of $206,336 to convert this amount of water from Class 2 to Class 1. Staff recommended that the Board authorize the general manager to approve and pay an invoice from the Sites Reservoir JPA for $206,336 to convert 4,334 acre-feet of Sites Reservoir Class 2 water to Class 1 water.
Director Copelan moved approval of authorizing the general manager to approve and pay an invoice from the Sites Reservoir JPA for $206,336 to convert 4,334 acre-feet of Sites Reservoir Class 2 water to Class 1 water. Director Bulot seconded. The motion was unanimously adopted.

4.1) General Manager’s Report. Douglas Headrick highlighted the delivery constraints on the East Branch of the State Water Project. This is the first year the District has experienced these constraints. Staff has performed a preliminary evaluation with the Department of Water Resources and determined these constraints are real. However, staff believes it can deliver all of its 85 percent allocation through February of 2018. There will be eight State Water Contractors working to determine if there are improvements that can be made to correct the deficiency. Mr. Headrick informed the Board that there was an employee recognition event held and David McArthur, Senior Water Operator, received special recognition. There will be a grand opening of the East Branch Extension Project in January 2018 where staff and Directors will be in attendance. Mr. Headrick reported that the Waterman Basins are recharging at twice the rate they were before the cleanup of the basins.

4.2) Legislative Report. Director Navarro wanted to know if AB 321 affects the District. Mr. Headrick stated it did not. Director Navarro wanted to know AB 589 affects the District. Mr. Headrick stated it has to do with agricultural areas mainly in the Central Valley. Director Navarro asked if SB 80 includes lead in water. Mr. Headrick stated he is not familiar with it but the District already follows this law as it completes Notices of Determinations.

4.3) Park Management and Property Committee Workshop, November 8, 2017. Director Navarro stated the park is running smoothly. There was a change in the schedule of the splash pad due to cost of the water and the change of seasons. The park is clean, maintained, and well attended.

4.4) SAWPA Commission Meeting, November 21, 2017. President Longville reported on the following items:

2. Received and filed the OWOW Plan Update 2018 Status.

4.5) Operations Reports. No oral report was given as a written report was included in the Board packet.

4.6) Treasurer’s Report. Director Hayes presented the Treasurer’s Report. Director Navarro moved approval of the following expenses for the month of October 2017. The State Water Contract Fund $3,009,412.00, Devil Canyon/Castaic Fund $92,065.00, and General Fund $2,118,587.48. Director Bulot seconded. The motion was unanimously adopted.

4.7) Directors’ Activities.
Director Hayes reported that she attended the Southern California Water Committee workshop sponsored by the San Gorgonio Pass Water Agency to inform everyone on the California WaterFix.

Director Bulot reported that the Basin Monitoring Taskforce at the Santa Ana Watershed Project Authority had a technical meeting on the waste load allocation model.

President Longville requested authorization to attend the 2017 ACWA Fall Conference. She participated in settlement negotiations with the City of San Bernardino and East Valley Water District.

Director Navarro requested authorization to attend the 2017 ACWA Fall Conference. At the One Water One Watershed (OWOW) Committee meeting there was discussion of homelessness and the effects on the watershed.

Director Copelan wished everyone a Happy Thanksgiving.

Director Hayes moved approval of authorizing President Longville and Director Navarro’s attendance at the 2017 ACWA Fall Conference and associated lodging. Director Copelan seconded. The motion was unanimously adopted.

**Agenda Item 5. Announcements.**

5.1) List of Announcements. There were no changes to the listing.

**Agenda Item 6. Closed Session.**

President Longville adjourned the meeting to Closed Session at 3:19 p.m.

6.1) Conference with Legal Counsel – Anticipated Litigation – Pursuant to Government Code Section 54956.9(4)(d) – Three cases.

6.2) Conference with Legal Counsel – Anticipate Litigation – Pursuant to Government Code Section 54956.9(d)(2), (3) – 1 case (Bay-Delta WaterFix Project and the Bay-Delta Water Quality Control Plan Update).


6.7) Conference with Legal Counsel – Existing Litigation – Pursuant to Government Code Section 54956.9(a),(d)(1) – Coalition to Protect Highland v. City of Highland – Case No. CIVDS1604787 (San Bernardino Superior Court)

6.8) Conference with Legal Counsel – Existing Litigation – Pursuant to Government Code Section 54956.9(d)(1) – Sterling Natural Resource Center Litigation – Southern California Environmental Justice Alliance v. San Bernardino Valley Municipal Water District and City of San Bernardino v. San Bernardino Valley Municipal Water District (San Diego County Superior Court No. 37-2016-00032816-CU-TT-CTL) and City of San Bernardino v. East Valley Water District (San Diego County Superior Court No. 37-2016-00038119-CU-WM-CTL); Wastewater Change Petition No. 0095 Filed by San Bernardino Valley Municipal Water District and East Valley Water District (State Water Resources Control Board).

6.9) Conference with Legal Counsel – Existing Litigation – Pursuant to Government Code Section 54956.9(a),(d)(1) – San Bernardino Valley Municipal Water District et al v. San Gabriel Valley Water Company et – Case No. CIVDS1311085 (San Bernardino Superior Court)

6.10) Conference with Legal Counsel – Pending Litigation – Pursuant to Government Code Section 54956.9(a),(d)(1) – Inland Valley Development Agency v. San Bernardino Valley Municipal Water District et al – Case No. CIVDS1621986 (San Bernardino Superior Court)


Pursuant to Government Code Section 54956.9 President Longville returned the meeting to Open Session at 4:33 p.m. and reported that the Board took no reportable action.

Agenda Item 7. Adjournment.

There being no further business, President Longville adjourned the meeting at 4:33 p.m.
Respectfully submitted,

Lillian Hernandez
Board Secretary
This item was discussed at a Board of Directors Workshop on November 14, 2017. Those Board members in attendance asked that it be placed on an upcoming Board Meeting agenda for full consideration.

During preparation of the 2017 Countywide Service Review for Water (Wholesale, Retail, Recycled), the San Bernardino County Local Agency Formation Commission (LAFCO) staff identified a Board of Equalization and County Assessor mapping error in Valley District’s boundary. Staff is recommending the annexation of this area that would correct this error.

BACKGROUND
The 5-acre area (Area) that is the subject of the annexation application is located in the City of Fontana (City) and is part of a larger development that was completed in the early 1980’s (Development). The Area is located in the adjacent service areas of Inland Empire Utilities Agency (IEUA) and Metropolitan Water District of Southern California (MWDSC). At the time of development, the Area was changed to be in the tax rate area for Valley District and has been paying taxes to Valley District ever since. Although the tax rate area was changed, the Board of Equalization and County Assessor maps were inadvertently not changed and still show the Area to be within the boundaries of IEUA and MWDSC. The attached annexation application will change the maps to match the tax rate area by detaching, or de-annexing, the Area from IEUA and MWDSC and then annexing the Area to Valley District. IEUA and MWDSC are supportive of the application.
Fiscal Impact
Valley District paid a $8,570 fee to LAFCO to process the annexation. This fee will be shared with the Inland Empire Utilities Agency so that Valley District’s portion will be $4,285.

Staff Recommendation
Authorize staff to file an annexation application with LAFCO at a total cost of $8,570. Valley District’s portion of the cost will be $4,285. Approve Resolution 1062 that requests LAFCO to initiate a sphere amendment and reorganization (Annexation/Detachment) of territory between the San Bernardino Valley Municipal Water District, the Inland Empire Utilities Agency, a Municipal Water District and the Metropolitan Water District of Southern California.

Attachments
1. Vicinity Map
2. Resolution 1062 Requesting the Local Agency Formation Commission to Initiate Proceedings for Sphere Amendment (Expansion/Reduction) and Reorganization (Annexation/Detachment) of Territory Between the San Bernardino Valley Municipal Water District, the Inland Empire Utilities Agency, a Municipal Water District and the Metropolitan Water District of Southern California, as More Specifically Described Below
Annexation No.62

- Annexation Area
- SBVMWD Service Area
- Tract 15921
RESOLUTION NO. 1062

A RESOLUTION OF APPLICATION BY THE BOARD OF DIRECTORS OF THE SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT, REQUESTING THE LOCAL AGENCY FORMATION COMMISSION TO INITIATE PROCEEDINGS FOR SPHERE AMENDMENT (EXPANSION/REDUCTION) AND REORGANIZATION (ANNEXATION/DETACHMENT) OF TERRITORY BETWEEN THE SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT, THE INLAND EMPIRE UTILITIES AGENCY, A MUNICIPAL WATER DISTRICT AND THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA, AS MORE SPECIFICALLY DESCRIBED BELOW

WHEREAS, THE Board of Directors of the San Bernardino Valley Municipal Water District desires to initiate proceedings pursuant to the Cortese-Knox-Hertzberg Local Government Reorganization Act of 2000, commencing with Section 56000 of the California Government Code for:

1. Sphere of Influence amendments for the Inland Empire Utilities Agency and the Metropolitan Water District of Southern California (reductions) and the San Bernardino Valley Municipal Water District (expansion)

2. Reorganization to include annexation to the San Bernardino Valley Municipal Water District and detachment from the Inland Empire Utilities Agency and the Metropolitan Water District of Southern California

WHEREAS, a description of the area proposed for sphere amendment and reorganization is attached hereto as Exhibits “A” and “B” and by this reference incorporated herein; and,

WHEREAS, the spheres of influence for the affected agencies will be consistent since the proposed change includes amendments to the spheres of influence for all three agencies – the Inland Empire Utilities Agency, the Metropolitan Water District of Southern California, and the San Bernardino Valley Municipal Water District; and,

WHEREAS, the reason for the proposed boundary adjustment is to clarify the boundaries of the Inland Empire Utilities Agency, the Metropolitan Water District of Southern California, and the San Bernardino Valley Municipal Water District to reflect the current service area for all three agencies.

WHEREAS, the San Bernardino Valley Municipal Water District desires that the proposed annexation be subject to the standard terms and conditions imposed by the Local Agency Formation Commission.
NOW THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT AS FOLLOWS:

SECTION 1. This Resolution of Application is hereby adopted and approved by the Board of Directors of the San Bernardino Valley Municipal Water District, and the Local Agency Formation Commission for San Bernardino County is hereby requested to take proceedings for the change of organization as described above, according to the terms and conditions stated above and in the manner provided by the Cortese-Knox-Hertzberg Local Government Reorganization Act of 2000.

SECTION 2. The San Bernardino Valley Municipal Water District acknowledges and agrees to the Local Agency Formation Commission for San Bernardino County’s requirement for imposing legal indemnification as outlined in Policy 3 of Chapter 2 of the Accounting and Financial Section of its Policy and Procedure Manual.

SECTION 3. The General Manager of the San Bernardino Valley Municipal Water District is hereby directed and authorized to execute, on behalf of the District/Agency, the application forms which includes the certified Plan for Service and Fiscal Impact Analysis, copies of which are on file in the District/Agency office.

SECTION 4. That the Secretary to the Board of Directors shall certify to the passage and adoption of this resolution and is hereby authorized and directed to file, or cause to be filed, a certified copy of this Resolution with the Executive Officer of the Local Agency Formation Commission for San Bernardino County.
PASSED AND ADOPTED by the Board of Directors of the San Bernardino Valley Municipal Water District at a regular meeting held on this ____ day of ___________, 2017, by the following vote:

AYES:  _____
NOES:  _____
ABSENT:  _____
ABSTAIN:  _____

By:

_________________________________________
Susan Longville, President

ATTEST:

_________________________________________
Steve Copelan, Secretary
EXHIBIT "A"

LAFCO NO. ________

SPHERE OF INFLUENCE AMENDMENTS FOR THE
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
(EXPANSION) AND THE INLAND EMPIRE UTILITIES AGENCY,
A MUNICIPAL WATER DISTRICT, AND THE METROPOLITAN
WATER DISTRICT OF SOUTHERN CALIFORNIA
(REDUCTIONS)

LAFCO NO. ________

REORGANIZATION TO INCLUDE ANNEXATION TO THE
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT AND
DETACHMENTS FROM THE INLAND EMPIRE UTILITIES AGENCY,
A MUNICIPAL WATER DISTRICT, AND THE METROPOLITAN WATER
DISTRICT OF SOUTHERN CALIFORNIA
(ANNEXATION NO. 62)

LEGAL DESCRIPTION

THAT PORTION OF THE EAST HALF OF SECTION 35, TOWNSHIP 1 SOUTH, RANGE 6
WEST, SAN BERNARDINO MERIDIAN, LYING IN THE CITY OF FONTANA, COUNTY OF SAN
BERNARDINO, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE CENTERLINE OF BEACH AVENUE WITH THE
CENTERLINE OF VILLAGE DRIVE EAST AS SHOWN BY TRACT NO. 13608 ON FILE IN
BOOK 204 OF MAPS AT PAGES 27 THROUGH 32, INCLUSIVE THEREOF, Records OF
SAN BERNARDINO COUNTY, CALIFORNIA, SAID POINT BEING ON THE EAST LINE OF
SAID SECTION 35 AND ON THE WEST BOUNDARY LINE OF SAN BERNARDINO VALLEY
MUNICIPAL WATER DISTRICT;

1. THENCE SOUTH 00°30'55" WEST, ALONG THE EAST LINE OF SAID SECTION 35 AND
SAID WEST BOUNDARY LINE OF SAN BERNARDINO VALLEY MUNICIPAL WATER
DISTRICT, A DISTANCE OF 558.40 FEET, AS SHOWN BY SAID TRACT NO. 13608, TO
THE WEST QUARTER CORNER OF SECTION 36, TOWNSHIP 1 SOUTH, RANGE 6 WEST,
SAN BERNARDINO MERIDIAN;

2. THENCE SOUTH 01°00'56" EAST, ALONG THE EAST LINE OF SAID SECTION 35 AND
SAID WEST BOUNDARY LINE OF SAN BERNARDINO VALLEY MUNICIPAL WATER
DISTRICT, A DISTANCE OF 187.39 FEET TO A POINT ON THE SOUTHWESTERLY
BOUNDARY LINE OF TRACT NO. 15921 AS SHOWN BY MAP ON FILE IN BOOK 290 OF
MAPS AT PAGES 76 THROUGH 78, INCLUSIVE THEREOF, Records OF
SAN BERNARDINO COUNTY, CALIFORNIA;
3. **THENCE** NORTH 63°25'00" WEST, ALONG SAID BOUNDARY LINE OF TRACT NO. 15921, A DISTANCE OF 133.30 FEET TO AN ANGLE POINT;

4. **THENCE** NORTH 43°23'36" WEST, ALONG SAID BOUNDARY LINE OF TRACT NO. 15921, A DISTANCE OF 86.81 FEET TO AN ANGLE POINT;

5. **THENCE** NORTH 17°09'06" WEST, ALONG SAID BOUNDARY LINE OF TRACT NO. 15921, A DISTANCE OF 169.33 FEET TO AN ANGLE POINT;

6. **THENCE** NORTH 22°05'00" WEST, ALONG SAID BOUNDARY LINE OF TRACT NO. 15921, A DISTANCE OF 275.33 FEET TO AN ANGLE POINT;

7. **THENCE** NORTH 25°38'50" WEST, ALONG SAID BOUNDARY LINE OF TRACT NO. 15921, A DISTANCE OF 225.06 FEET TO A POINT OF CUSP WITH A CURVE, CONCAVE NORTHERLY, HAVING A RADIUS OF 537.50 FEET, A RADIAL LINE AT SAID POINT OF CUSP BEARS NORTH 04°36'08" EAST;

8. **THENCE** EASTERLY, ALONG SAID CURVE AND SAID BOUNDARY LINE OF TRACT NO. 15921, THROUGH A CENTRAL ANGLE OF 20°22'11"', AN ARC DISTANCE OF 191.09 FEET TO AN ANGLE POINT, A RADIAL LINE AT SAID ANGLE POINT BEARS NORTH 15°46'03" WEST;

9. **THENCE** SOUTH 15°44'32" EAST, ALONG SAID BOUNDARY LINE OF TRACT NO. 15921, A DISTANCE OF 6.00 FEET TO THE BEGINNING OF A NON-TANGENT CURVE, CONCAVE NORTHERLY, HAVING A RADIUS OF 543.50 FEET, A RADIAL LINE AT SAID POINT BEARS NORTH 15°44'32" WEST;

10. **THENCE** NORTHEASTERLY, ALONG SAID CURVE AND SAID BOUNDARY LINE OF TRACT NO. 15921, THROUGH A CENTRAL ANGLE OF 05°58'49" ', AN ARC DISTANCE OF 56.73 FEET TO A POINT OF COMPOUND CURVATURE WITH A CURVE, CONCAVE NORTHERLY, HAVING A RADIUS OF 1043.50 FEET, A RADIAL LINE AT SAID POINT BEARS NORTH 21°43'21" WEST;

11. **THENCE** NORTHEASTERLY, ALONG SAID CURVE AND SAID BOUNDARY LINE OF TRACT NO. 15921, THROUGH A CENTRAL ANGLE OF 08°54'31" , AN ARC DISTANCE OF 162.25 FEET TO THE MOST NORTHERLY CORNER OF SAID TRACT NO. 15921, A RADIAL LINE AT SAID POINT BEARS NORTH 30°37'52" WEST;

12. **THENCE** NORTH 89°58'19" EAST, A DISTANCE OF 42.32 FEET TO THE EAST LINE OF SAID SECTION 35 AND THE WEST BOUNDARY LINE OF SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT;
13. **THENCE** SOUTH 00°30'55" WEST, ALONG THE EAST LINE OF SAID SECTION 35 AND THE WEST BOUNDARY LINE OF SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT, A DISTANCE OF 99.27 FEET TO THE **POINT OF BEGINNING**.

TOTAL GROSS AREA = 4.81 ACRES.

THIS REAL PROPERTY DESCRIPTION HAS BEEN PREPARED BY ME, OR UNDER MY DIRECTION, IN CONFORMANCE WITH THE PROFESSIONAL LAND SURVEYORS' ACT.

ERIC R. BUNKE, P.L.S. #8974

DATE: 10/2/17
EXHIBIT "B"

LAFCO No.
Sphere of Influence Amendments for the San Bernardino Valley Municipal Water District (Expansion) and the Inland Empire Utilities Agency, a municipal water district, and the Metropolitan Water District of Southern California (Reductions)

LAFCO No.
Reorganization to include Annexation to the San Bernardino Valley Municipal Water District and Detachments from the Inland Empire Utilities Agency, a municipal water district, and the Metropolitan Water District of Southern California (Annexation No. 62)

Legend
- Proposal Area
- Existing Common Boundaries Between IEUA/MWD And SBVMWD
- Existing SBVMWD Service Area
- Assessor Parcel Boundary

List of Affected Agencies
- San Bernardino Valley Municipal Water District
- Inland Empire Utilities Agency
- Metropolitan Water District of Southern California

Date: 9/29/2017

Vicinity Map
1:24,000
DATE: December 5, 2017
TO: Board of Directors
FROM: Bob Tincher, Manager of Water Resources
SUBJECT: Extension to the Water Purchase and Exchange Agreement with the Crestline Lake Arrowhead Water Agency

This item was discussed at a Board of Directors Workshop on November 14, 2017. Those Board members in attendance asked that it be placed on an upcoming Board of Directors Meeting agenda for full consideration.

This amendment would extend the term of Valley District’s existing Water Purchase and Exchange Agreement (Agreement) with the Crestline Lake Arrowhead Water Agency (CLAWA) to December 31, 2035. Valley District and CLAWA specified, in the Agreement, the desire to extend the Agreement, as necessary, until CLAWA receives all of the water they are entitled to under the terms of the Agreement.

BACKGROUND
In the early 2000’s, the Lake Arrowhead area determined that it was in need of a supplemental water supply to meet its future demands. In 2005, Valley District, Lake Arrowhead Community Services District and CLAWA entered into the agreements necessary to facilitate a sale of 8,000 acre-feet of Valley District’s State Water Project water to LACSD via CLAWA. The water was purchased, in advance, by LACSD and provided to Valley District for storage in the San Bernardino Basin Area. In exchange for the pre-purchased water, Valley District agreed to provide 7,600 acre-feet, over the life of the Agreement, from its annual entitlement of State Water Project water to LACSD via CLAWA. The water is delivered to CLAWA, at their request, and subject to limitations in the agreement. Any additional cost due to a change in the Total Equivalent Unit Charge (essentially a change in the variable charge) or the hydropower
generation credit at Devil Canyon Powerplant is paid by CLAWA. To date, CLAWA has taken delivery of about 1,700 acre-feet of the water, leaving a balance of about 5,900 acre-feet.

The Agreement expires in 2020 but requires extension until CLAWA has received all of the water they are entitled to under the Agreement:

“…the term of this Agreement will be extended accordingly by written agreement signed by the parties hereto. The term of this Agreement will expire when CLAWA has taken all of its Exchange Water contained in the Exchange Account and all of the other obligations set forth herein have been satisfied.” (bullet 7, page 7)

CLAWA has requested that the term of the Agreement be extended to December 31, 2035 while preserving all of the other terms and conditions. Both CLAWA and LACSD have prepared and approved an addendum to the Mitigated Negative Declaration for the project which concludes that the extension of time does not create any environmental impacts. Valley District’s special counsel, David Aladjem, has determined that it is not necessary for Valley District to prepare any additional environmental documentation. This item has been forwarded to house counsel for review, as to form.

Once the amendment has been fully executed, CLAWA and Valley District will work with the Department of Water Resources to extend the Point of Delivery Agreement Among the Department of Water Resources of the State of California, Crestline-Lake Arrowhead Water Agency and San Bernardino Valley Municipal Water District, for an Emergency Water Supply Transfer for Lake Arrowhead Community Services District (SWPAO #07025).

**Fiscal Impact**
There is no fiscal impact for this action to extend the Agreement.

**Staff Recommendation**
Authorize the General Manager to execute Amendment No. 1 to the Water Purchase and Exchange Agreement with Crestline Lake Arrowhead Water Agency.
Attachments

1. Amendment No. 1 to the Water Purchase and Exchange Agreement
2. Water Purchase and Exchange Agreement between Valley District and CLAWA, July 7, 2005
AMENDMENT NO. 1 TO WATER PURCHASE AND EXCHANGE AGREEMENT

WHEREAS, Crestline-Lake Arrowhead Water Agency (“CLAWA”) and San Bernardino Valley Municipal Water District (“SBVMWD”) entered into a Water Purchase and Exchange Agreement (“Agreement”) dated July 7, 2005, by which CLAWA purchased 8,000 acre-feet of water from SBVMWD’s 2005 allocation of water from the State Water Project, and provided for the delivery of that water to SBVMWD in 2005 in exchange for the return of 7,600 acre-feet of water (“Exchange Water”) from SBVMWD’s allocations of water from the State Water Project in subsequent years; and

WHEREAS, CLAWA delivers the Exchange Water to Lake Arrowhead Community Services District (“LACSD”) for its use in years in which its local water supplies are not adequate to service its needs; and

WHEREAS, LACSD has only taken about 1,700 acre-feet of the Exchange Water, to date; and

WHEREAS, the Agreement requires a time extension if CLAWA has not taken all of its Exchange Water by December 31, 2020, subject to environmental review; and

WHEREAS, CLAWA has requested an extension of the Agreement to December 31, 2035; and

WHEREAS, CLAWA and LACSD have prepared and approved an addendum to the Mitigated Negative Declaration for the project which concludes that the extension of time does not create any environmental impacts;
NOW, THEREFORE, CLAWA and SBVMWD hereby agree to extend the term of the Agreement until December 31, 2035, to allow additional time for delivery of the remaining Exchange Water. All other provisions of the Agreement shall remain in full force and effect.

CRESTLINE-LAKE ARROWHEAD WATER AGENCY

______________________________________
Roxanne M. Holmes, General Manager

ATTEST:

_____________________________________
Secretary

_____________________________________
Date

SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT

_____________________________________
Douglas D. Headrick, General Manager

ATTEST:

_____________________________________
Secretary

_____________________________________
Date
<table>
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<th>MESSAGE</th>
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<tr>
<td><strong>TO</strong></td>
<td>San Bernardino Valley Municipal Water District</td>
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<td>P.O. Box 5906</td>
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<td>San Bernardino, CA 92412-5906</td>
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<td><strong>DATE</strong></td>
<td>Attn: Linda Barnett</td>
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<td>August 26, 2005</td>
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Enclosed are the original signed Water Purchase and Exchange Agreement between SBVMWD and CLAWA and the original signed Agreement for the Sale, Treatment and Delivery of Water between LACSD and CLAWA.

Roxanne M. Holmes, General Manager
WATER PURCHASE AND EXCHANGE AGREEMENT

This Agreement is made this 7th day of July, 2005, by and between the San Bernardino Valley Municipal Water District ("SBVMWD") and the Crestline-Lake Arrowhead Water Agency ("CLAWA").

Recitals.

A. The Department of Water Resources of the State of California ("DWR") owns and operates the State Water Project ("SWP") and has entered into contracts with twenty-nine (29) water purveyors ("State Water Contractors" or "Contractors") for the annual delivery of water from the SWP to those Contractors.

B. SBVMWD and CLAWA are both State Water Contractors which receive an annual allocation of water from the SWP pursuant to their respective contracts with DWR. SBVMWD's contract with DWR provides for the delivery of 102,600 acre-feet of water per year from the SWP (SBVMWD's "Table A Amount"), and CLAWA's contract with DWR provides for the delivery of 5,800 acre-feet of water per year from the SWP (CLAWA's "Table A Amount").

C. CLAWA's contract with DWR authorizes the use of water which CLAWA receives from the SWP only within CLAWA's boundaries. CLAWA's boundaries were originally approved by DWR to include the area surrounding Lake Arrowhead which currently receives water service from the Lake Arrowhead Community Services District. However, this area (the "Lake Arrowhead Exclusion Area") was ultimately excluded from

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1 The quantity of SWP water actually delivered to each Contractor varies from year to year based upon a number of factors, including hydrologic conditions within the SWP watershed, the ability of the SWP to capture and store runoff, and each Contractor's request for water in any given year. In most years, Contractors are allocated less than their Table A Amounts; in some years, Contractors have the opportunity to receive more than their Table A Amounts.
CLAWA’s boundaries when CLAWA was formed, and therefore does not receive any SWP water allocated to CLAWA pursuant to CLAWA’s Table A Amount.

D. SBVMWD’s contract with DWR (specifically, paragraph 15(a) thereof) authorizes the use of the water which it receives from the SWP outside of SBVMWD’s boundaries so long as such use does not materially impair SBVMWD’s capacity to make payment to DWR as required by its contract with DWR.

E. The SWP water which SBVMWD receives pursuant to its contract with DWR flows through Lake Silverwood, a reservoir of the SWP, then through the Devil Canyon power plant, also a facility of the SWP, en route to the delivery structures (“turnouts”) which supply SWP water to SBVMWD south of Devil Canyon. SBVMWD receives credit on its annual invoice from DWR for the value of energy generated at the Devil Canyon power plant due to SWP water delivered to SBVMWD through its turnout south of Devil Canyon. The amount of the power generation credit per acre foot of water delivered to SBVMWD each year is calculated by DWR and is reflected in Table B-17 of DWR’s Bulletin 132, prepared and published by DWR each year.

F. The SWP water which CLAWA receives pursuant to its contract with DWR also flows through Lake Silverwood en route to CLAWA’s turnout in Lake Silverwood.

G. SBVMWD has agreed to sell to CLAWA, and CLAWA has agreed to purchase from SBVMWD, 8,000 acre-feet of SBVMWD’s 2005 allocation of water from the SWP for use, via exchange, within the Lake Arrowhead Exclusion Area pursuant to the terms hereinafter set forth.
H. The purpose of this Agreement is to set forth in writing the terms of the purchase and sale and for the use of that water, via exchange, outside of the boundaries of SBVMWD.

Terms

1. **Purchase by CLAWA.** SBVMWD agrees to sell to CLAWA, and CLAWA agrees to purchase from SBVMWD, 8,000 acre-feet of water from SBVMWD’s allocation of SWP water in calendar year 2005. Although sold by SBVMWD and purchased by CLAWA, this water will be delivered to SBVMWD in 2005 for use by SBVMWD as SBVMWD deems appropriate, consistent with its normal annual operations.

2. **Exchange By SBVMWD.** In return for the 8,000 acre-feet of SWP water purchased by CLAWA but delivered to SBVMWD in 2005, CLAWA shall have the right to take a total of 7,600 acre-feet of water ("Exchange Water") from SBVMWD’s annual allocation of SWP water, beginning in calendar year 2005, upon the terms set forth in this Agreement. SBVMWD and CLAWA shall keep an account ("Exchange Account") of the quantity of Exchange Water which CLAWA is entitled to take pursuant to this Agreement, and the balance remaining in the Exchange Account each time CLAWA withdraws Exchange Water from the Exchange Account.

3. **Annual Withdrawals from the Exchange Account.** By October 1 of each year, CLAWA will confer with SBVMWD and provide DWR with a schedule showing the total quantity of Exchange Water, by month, which CLAWA intends to take from SBVMWD’s allocation of SWP water in the next subsequent year. The schedule may be revised until March 1 of the following year, or thereafter during the course of the year as mutually agreed between
CLAWA, SBVMWD and DWR. However, CLAWA’s right to take Exchange Water as set forth in the proposed schedule shall be limited as follows:

(a) **The total quantity of Exchange Water which CLAWA may take in any calendar year shall not exceed 15% of the SWP water allocated to SBVMWD in that year, unless approved in advance by SBVMWD.**

(b) **CLAWA shall not take Exchange Water in quantities or rates of flow which, when added to the water taken by CLAWA from its own allocation of SWP water in any year, exceed the total quantity or rate of flow which would cause CLAWA to be in violation of its contract with DWR.**

(c) **If any calendar year is determined by DWR to be critically dry, CLAWA will be entitled to take only that quantity of Exchange Water which SBVMWD determines that it can spare from its allocation of SWP water for that year without impairing SBVMWD’s ability to satisfy the needs of its own customers, after conferring with CLAWA in good faith.**

4. **Place of Use.** The Exchange Water delivered to CLAWA will be supplied by CLAWA to the Lake Arrowhead Community Services District for use within the Lake Arrowhead Exclusion Area; provided, however, that in any year CLAWA will be entitled to utilize the Exchange Water within its own boundaries to satisfy the consumptive needs of customers within its boundaries, and thereafter either (a) replace the Exchange Water utilized within its own boundaries with an equal quantity of SWP water allocated to CLAWA, for use
within the Lake Arrowhead Exclusion Area, or (b) reduce the quantity of water which the Lake Arrowhead Community Services District must purchase from CLAWA, pursuant to separate agreement between CLAWA and that District.

5. **Purchase Price.** Within 15 days after execution of this Agreement by all parties hereto, CLAWA will pay to SBVMWD the amount of $3,794,640 (which is the Total Equivalent Unit Charge to SBVMWD of $474.33 per acre-foot for SWP water delivered to SBVMWD as reflected in Table B-24 of DWR’s Bulletin 132-04 times 8,000 acre-feet) plus the amount of $212,040 (which is the value of the hydropower generation credit per acre-foot of water delivered through the Devil Canyon power plant as reflected in Table B-17 of DWR’s Bulletin 132-04, or $27.90 per acre-foot, times 7,600 acre-feet). The sum of these two charges equals a total payment of $4,006,680. Upon receipt of this payment, SBVMWD shall provide notice to DWR that CLAWA has purchased 8,000 acre-feet of water from SBVMWD’s 2005 allocation of SWP water from DWR, which shall entitle CLAWA to subsequently take Exchange Water from SBVMWD’s annual allocations of SWP water in an aggregate quantity not to exceed 7,600 acre-feet, pursuant to the terms of this Agreement. As soon as reasonably possible thereafter, CLAWA and SBVMWD will review the Total Equivalent Unit Charge for SWP water delivered to SBVMWD as reflected in Table B-24 of DWR’s Bulletin 132-04 to determine whether any portion of that charge is attributable to SBVMWD’s share of capacity in or use of the extension of the East Branch of the California Aqueduct beyond Devil Canyon (“East Branch Extension”), and if so then SBVMWD will immediately refund to CLAWA that portion of CLAWA’s payment for the purchase of 8,000 acre-feet of SWP water from SBVMWD. As CLAWA subsequently takes Exchange Water, an adjustment shall be made in the amount paid to SBVMWD by CLAWA to reflect (a) the Total Equivalent Unit Charge reflected in Table B-24...
or a corresponding table of DWR’s Bulletin 132 (less any portion of such charge attributable to SBVMWD’s share of capacity in or use of the East Branch Extension) for the year in which the Exchange Water is taken, times the number of acre-feet of Exchange Water taken by CLAWA in that year; and (b) the value of the hydropower generation credit per acre foot of water that would have been delivered to SBVMWD through the Devil Canyon power plant in that year (if not taken by CLAWA as Exchange Water) as reflected in Table B-17 of DWR’s Bulletin 132 for the year in which the Exchange Water is taken, times the number of acre-feet of Exchange Water taken by CLAWA in that year. The appropriate adjustments shall be made by SBVMWD and CLAWA within 60 days after DWR publishes its Bulletin 132 reflecting the Total Equivalent Unit Charge per acre-foot and the Devil Canyon power generation credit per acre-foot for the year in which the Exchange Water was taken by CLAWA. If any such adjustment results in an extra charge to CLAWA, SBVMWD will send an invoice to CLAWA for the amount of the additional charge, and CLAWA will pay the amount due within 30 days after the date of the invoice. If the adjustment results in a refund of a portion of the amount previously paid by CLAWA to SBVMWD pursuant to this Agreement, CLAWA will send an invoice to SBVMWD for a refund of that amount, and SBVMWD will pay the amount due within 30 days after the date of the invoice. Any amounts due by either CLAWA or SBVMWD which are not paid when due will accrue interest at the rate of 1% per month until paid. In the event of disagreement between CLAWA and SBVMWD as to any amounts due under this Agreement, CLAWA and SBVMWD agree to confer in good faith to resolve such disagreement amicably, without waiving any of the legal equitable rights which either may have against the other.

6. DWR’s Charges to SBVMWD. SBVMWD will remain responsible for payment of DWR’s charges for water purchased by CLAWA but delivered to SBVMWD in
2005 for use within its service area and for Exchange Water thereafter delivered to CLAWA from SBVMWD’s annual allocation of SWP water, as provided in SBVMWD’s contract with DWR.

7. **Term.** CLAWA anticipates taking all of its Exchange Water prior to December 31, 2015. However, in the event that CLAWA does not take all of its Exchange Water by then, CLAWA will have the option to continue taking Exchange Water until its Exchange Account is fully depleted, which is expected to occur by December 31, 2020. If CLAWA has not taken all of its Exchange Water by December 31, 2020, CLAWA and SBVMWD agree to perform any necessary environmental review of an appropriate term extension to provide for delivery of any water remaining in the Exchange Account. Following any such environmental review, the term of this Agreement will be extended accordingly by written agreement signed by the parties hereto. The term of this Agreement will expire when CLAWA has taken all of its Exchange Water contained in the Exchange Account and all of the other obligations set forth herein have been satisfied.

8. **Indemnification of DWR.** In the event any claim against DWR or any of its officers or employees for liability arising under this Agreement, or out of actions undertaken pursuant to this Agreement, for which CLAWA and SBVMWD may be responsible, CLAWA and SBVMWD agree to indemnify, defend and hold DWR and its officers and employees harmless from such claim.

9. **Mutual Indemnification.** CLAWA and SBVMWD each agrees to indemnify, defend and hold the other party harmless from any claim of loss or liability for damage to person or property arising out of or resulting from the indemnifying party’s acts or omissions in the performance of this Agreement. In the event of a third party loss caused by the negligence,
wrongful act or omission of the parties to this Agreement, each party shall bear financial responsibility in proportion to its percentage of fault as judicially determined or as otherwise agreed between them.

10. **No Detriment to Other State Water Contractors.** CLAWA and SBVMWD agree that DWR has the authority to limit the delivery of Exchange Water to CLAWA in any year as deemed necessary or appropriate by DWR in order to satisfy DWR’s other obligations to deliver SWP water to Contractors.

11. **Compliance with All Laws.** CLAWA will assume responsibility to ensure compliance with such laws as may apply to the implementation of this Agreement, including without limitation the California Environmental Quality Act, and for securing such consents or permits as may be required therefor. SBVMWD agrees to cooperate with CLAWA in achieving such compliance.

12. **Attorneys Fees and Costs.** In the event of legal action to interpret or enforce the provisions of this Agreement, the prevailing party shall be entitled to reimbursement of reasonable attorneys' fees and costs incurred in such action, as determined by a court or as agreed between the parties.
IN WITNESS WHEREOF, the parties have executed this Agreement effective as of the date first above written.

CRESTLINE-LAKE ARROWHEAD WATER AGENCY

By: James J. Croy
President, Board of Directors

(Date) 8/25/05

SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT

By: [Signature]
President, Board of Directors

(Date) 7-20-05

ATTEST:
Pamela K. Hedley
Secretary

ATTEST:
Steve Copeland
Secretary
February 8, 2013

RE: Extension of Term of Water Purchase and Exchange Agreement

Dear Mr. Headrick,

In 2005, our Agency and San Bernardino Valley Municipal Water District entered into a Water Purchase and Exchange Agreement for the pre-purchase of 7,600 acre-feet of water from SBVMWD for delivery to the Lake Arrowhead Community Services District. At the time we all believed that the LACSD would utilize all of that water before the end of 2015. However, the LACSD is taking the water in much smaller quantities than anticipated in 2005, and now it is clear that the LACSD will not be taking all of the water before the end of 2015.

Section 7 of the Agreement provides in part as follows:

“CLAWA anticipates taking all of its Exchange Water prior to December 31, 2015. However, in the event that CLAWA does not take all of its Exchange Water by then, CLAWA will have the option to continue taking Exchange Water until its Exchange Account is fully depleted, which is expected to occur by December 31, 2020.”

Pursuant to Section 7 of the Agreement, please accept this letter as notice of the Agency’s exercise of its option to extend the term of the Agreement beyond December 31, 2015, until such time as all of the water has been taken from the account, as set forth in the agreement.
Thank you very much for your District’s continued cooperation in the implementation of the Agreement. If you have any questions or concerns, please do not hesitate to call.

Yours very truly,

Roxanne M. Holmes,
General Manager

Cc: Mark Veysey, LACSD
DATE: December 5, 2017
TO: Board of Directors
FROM: Douglas Headrick, General Manager
SUBJECT: Proposed Re-organization

Background
On October 10, 2017 and November 14, 2017, a proposed re-organization of the District staff was presented to the Board in Workshops. A current organizational chart along with the proposed re-organization is attached to this memo. The proposal was in response to an established goal for the General Manager to identify and propose organizational efficiencies to promote the retention of key District staff. After initial review by the Board members at the October Workshop, Staff was directed to evaluate the budget impacts associated with the proposed re-organization and bring the item back for consideration. This information was presented to the Board in November and Staff was directed to bring the item forward to a full Board meeting for consideration.

The proposed re-organization involves three existing senior management staff being promoted to new positions and having appropriate staff report to these three new positions. In addition, one new position to support the implementation of the Upper Santa Ana River Habitat Conservation Plan is proposed. The proposal specifics are as follows.

1. Promote the Manager of Water Resources to Deputy General Manager – Resources with 5% salary increase on January 1, 2018 (Range/Step 36F to Range/Step 38E)
2. Promote the Finance Manager to Deputy General Manager – Administration with a 5% salary increase on January 1, 2018. (Range/Step 34D to Range/Step 36C)
3. Promote the Manager of Engineering to Chief Engineer with a 5% salary increase on January 1, 2018 (Range/Step 34D to Range/Step 36C)

4. Add the position Project Manager – Biological Resources at Range 26 – 27A

Staff has evaluated the costs of the four positions above. The salary and benefit cost for the three promotions is approximately $22,000 ($7,300 per promotion) for the remaining 6 months of the fiscal year. The salary and benefit cost of the new Project Manager – Biological Resources at Range 26 is approximately $75,000 for the remainder of the fiscal year. As was previously reported, it is anticipated that the majority of the cost for this new position will be reimbursed by HCP partners. Further, due to delays in the hiring of the District’s new Technical Assistant and the Project Manager - Water Use Efficiency/External Affairs, there is sufficient funds available to cover the four proposed changes in the approved General Fund budget.

Consideration of the new External Affairs Manager position shown on the proposed re-organization will be brought to the Board for further discussion at a later date.

**Fiscal Impact**

The salary and benefit costs associated with this proposal are included in the approved Fiscal Year 2017-2018 General Fund Budget. The 6 month cost of the three proposed promotions is approximately $22,000. There would be an ongoing cost to the District of $44,000 per year that would be included in the proposed budget for Fiscal Year 2018-2019. The 6 month cost of the Project Manager – Biological Resources is approximately $75,000. Again there would be an ongoing cost of $150,000 per year included in future year budgets. However, this cost will be partially offset by reimbursements from other HCP partner agencies.

**Fiscal Impact**

There are sufficient funds in the approved Fiscal Year 2017-2018 General Fund budget to cover the costs of the three promotions and one new position from January 1, 2018 to June 30, 2018.

**Recommendation**

1. Approve the proposed re-organization of three senior management promotions at a total cost of $22,000 from January 1, 2018 to June 30, 2018.
2. Approve a new position of Project Manager – Biological Resources at a cost of $75,000 from January 1, 2018 to June 30, 2018. A significant portion of this cost will be reimbursed by other Upper Santa Ana River Habitat Conservation Plan partners.

**Attachments**

1. Current Organizational Chart
2. Proposed Re-organization
DATE: December 5, 2017

TO: Board of Directors

FROM: Wen Huang, Manager of Engineering
       Aaron Jones, Assistant Engineer

SUBJECT: Consider Design for Water Treatment of State Water Project Water

This item was discussed at the Board of Directors’ Workshop on November 14, 2017. At that meeting, the Board members present expressed support for the project and asked that it be placed on an upcoming Board agenda for consideration.

In order to control and mitigate algae in Valley District’s State Water Project (SWP) water delivery system, proposals were solicited from two (2) consultants to provide professional engineering services for designing a water treatment injection system at two (2) locations along the Foothill Pipeline; 1) Sweetwater Turnout and 2) Line Valve 2. The proposed services consist of the mechanical, structural, and electrical/instrumentation design of an injection system for EarthTec product that directly feeds into the Foothill Pipeline. Two (2) proposals were received and reviewed by Staff. Staff recommends the Alpine Technical Smart Solutions Innova (ATS Innova) proposal for design services at a total cost of $27,000.

BACKGROUND
Valley District staff has been investigating ways to treat algae growth within our facilities (e.g. spreading ponds and reservoirs). On October 4, 2017 Staff conducted a test at Badger Basins and applied a product called EarthTec, a copper based solution approved by the Department of Water Resources, to the surface of Badger Basin where there was visible algae growth present. Two days after the EarthTec product was applied to the surface, the algae had been remediated (see Attachment 1 for photos).
EarthTec is a highly soluble, low pH algaecide/bactericide designed for use in lakes, ponds, reservoirs, sedimentation basins, irrigation canals, treatment lagoons and water systems. The active ingredient in EarthTec is a highly biologically active form of the cupric ion (Cu++), which is the only form of copper that is useful in controlling algae and bacteria. EarthTec is registered by the U.S. EPA as an algaecide/bactericide and is certified to NSF Certified Standard 60 as an additive to drinking water. In addition, the Regional Water Quality Control Board has reviewed the EarthTec product for Valley District and has approved of its use.

Based on these preliminary results and the need to have a robust method to treat algae growth in the future, Staff obtained two proposals from consultants for the design of an injection system that feeds directly into Valley District’s Foothill Pipeline. The two initial locations that Staff is recommending for the design and installation of an injection system is at Sweetwater Turnout and Line Valve 2. The proposed services include design of liquid containment (i.e. tanks), protective structuring, metered dispensing (feed pump), and engineering associated with design and site layout. Future additional sites may be recommended depending the results of the application at the initial sites.

In order to expedite the process so that an injection system could be implemented by summer 2018, Staff solicited proposals from two (2) consultants for this work. Upon evaluation of the two proposals submitted, Staff concluded that both firms have similar qualifications on design of the system. In addition, Staff favors ATS Innova as the preferred consultant of choice due to their work experience with the product supplier (EarthTec) and a more competitive fee proposal (i.e. proposal fee estimate from other consultant is $59,450).

**Fiscal Impact**

The cost for the proposed design work for the injection system is $27,000 and is included in the FY2017-18 General Fund Budget.

**Staff Recommendation**

Authorize the General Manager to enter into a contract with ATS Innova to provide professional engineering services for the design of an injection system into the Foothill Pipeline at Sweetwater and Line Valve 2 for the cost of $27,000.
Attachments

1. Badger Basin Photos—EarthTec Treatment Results
2. ATS Proposal of Services for SBVMWD Water Treatment Project
Mr. Wen Huang, P.E.

Manager of Engineering
San Bernardino Valley Municipal Water District
380 E. Vanderbilt Way
San Bernardino, CA 92408
Subject: ATS Proposal of Services for SBVWD Water Treatment Project

Dear Mr. Huang:

Alpine Technical Smart Solutions Innova (ATS Innova) is pleased to submit this proposal to San Bernardino Valley Municipal Water District (Valley District) to provide water treatment via direct injection of EarthTec at two sites along the Foothill Pipeline. The proposed services consist of providing liquid containment, protective structuring, metered dispensing, and engineering associated with the development of contract documents for improvements to the existing pipeline sites. It is assumed that Valley District will provide local contractors for site preparation and structure installation in order to meet all local and state laws.

Water Treatment Sites:
Site #1 - Sweetwater
Site #2 – Line Valve 2

The following reference documents provided by Valley District will be utilized for this design:
A. As-built drawings of the existing sites.
B. Electrical plans for each site.

The project will involve the following major features, applicable to all two sites unless noted:
A. Tank: Double wall tank for liquid containment with digital fill level output.
B. Insulation blanket or equivalent.
C. Shed: Building structure to protect tank against the environment and vandalism
D. Power: Electrical Power from existing 120 VAC panel, 20 amp circuit.
E. Fill Port: Easy access filling port for chemical delivery.
F. Pump: Metering pump with flow rate control and manual metering verification.
G. High-pressure output line providing chemical to the main pipeline.
H. Valve: Hot-Tap or similar method to provide a dedicated input valve.
I. Direct Injection: Injection quill providing direct injection into the water flow.
J. PLC Communications: sense lines connecting the existing PLC and new equipment.
K. Coordination with Valley District’s System Integrator associated with their PLC based control/RTU system.
L. Piping.
SCOPE OF SERVICES

1. **Design and site layout of ATS Innova system by December 29, 2017:**
   1. **Site Investigation:** ATS Innova will perform a site investigation to survey the existing sites for tank location, injection pipe location, and electrical service with District staff.
   2. **Design Criteria:** ATS Innova will summarize the findings of the site investigation and provide a general outline of the improvements that will be the basis of the contract documents.
   3. **Contract Specifications:** ATS Innova will review and utilize Valley District’s specifications and/or supplement with technical specifications for related site design.
   4. **Contract Drawings:** ATS Innova will prepare two (2) sets of drawings stamped by registered engineers in the State of California for the project. Each set is dedicated to a specific site along the pipeline. Each site will have the following drawings at a minimum:
      1. Legend and Abbreviations.
      2. Site layout.
      3. Single Line Diagram showing power, sense, and fluid lines.
      5. Flow diagram.
      6. Structure Plan including shed and foundation requirements.
      7. Conduit and Wiring Schedule.
      8. Metering Pump and volume level wiring, and interconnect diagrams.
      10. PLC I/O Listing by Point Type.
      11. Feed pump, piping and tank plan.
      12. Mechanical sections and details.
   5. **Deliverables:**
      1. **50% Design Deliverable.** ATS Innova will submit the 50% design to Valley District for review that includes: one (1) electronic (pdf) of all electrical drawings.
      2. **90% Design Deliverable.** ATS Innova will submit the 90% design to Valley District for review that includes: one (1) electronic (pdf) of all electrical drawings and one (1) electronic (pdf) of related technical specifications.
      3. **Final Design Deliverable.** Valley District’s comments on the 90% design will be incorporated and Final documents will be submitted. Submittal will include one (1) electronic (pdf) of all electrical drawings and one (1) electronic (pdf) of related technical specifications.

2. **Contractor selection by February 2, 2018:**
   1. Valley District, with help from ATS Innova, will prepare a bid request packet.
   2. Valley District will send the bid request to local contractors giving them the standard four (4) weeks to bid.
3. **Bidding Assistance:** ATS Innova will review and prepare responses to requests for information (RFIs) submitted by prospective bidders during the bidding process.

4. Valley District will award the contract to appropriate bidder and will notify ATS Innova.

3. **Construction Phase.**
   1. **Selected Contractor:**
      1. Conduit runs to protect electrical, sense, and fluid lines.
      2. Slab on grade in preparation for pre-built structure.
      3. Core Drill pipeline vault to install injection line.
      4. Pre-built structure assembly and installation.
      5. Electrical wiring, panel installation, receptacle and component installation.
      6. Tank installation including earthquake straps and other safety measures.
      7. Dedicated valve to allow for quill injection.
      8. Metering pump, high pressure lines, and injection quill installation.

2. **Valley District:**
   1. Construction Management.

3. **ATS Innova:**
   1. Critical component sourcing:
      1. Tank, insulation, and associated functional components including fill line and digital level indicator.
      2. Shed and associated hardware from the manufacturer.
      3. Metering pump with digital output for PLC control.
      4. Flow Verification column for calibration of metering pump.
      5. Quill injection and associated plumbing fixtures.
   2. Final inspection and testing of system. The full system test will include, but is not limited to; equipment inspection, routing verification, flow rate verification, fluid containment safeguards, remote flow regulation, and emergency shut off.
   3. Incorporate redlines provided by Valley District and prepare as-built plans upon completion of the Project.

4. **Project Management:**
   1. Quality Assurance/Quality Control (QA/QC): ATS Innova will perform a review of all submittals.
   2. Meetings: ATS Innova will attend three (3) meetings with Valley District which includes a project kick-off meeting/site investigation, and two (2) design review meetings.
   3. Management: This task addresses the management responsibilities associated with proper scheduling, budget control, invoice preparation and coordination.
   4. Provide services for responding to submittals and RFIs

5. **Assumptions:**
1. Valley District will provide all site preparation, modifications, and will be responsible for all contractor oversight and management.
2. System Integrator will design and provide the control panel including the PLC hardware and software as well as any changes to the system program.
3. Front end specifications to solicit contractor bid will be provided by Valley District.
4. Valley District will provide the electronic file of the site and vault.

**BUDGET & SCHEDULE**
ATS Innova proposes to perform the base services described above at a fixed rate of $27,000, excluding any sales taxes, if applicable. The fixed rate includes deliverables as described for all 2 treatment sites.

The final design will be submitted within seven (7) calendar days following a Notice-to-Proceed notification to ATS, assuming a review time of one (1) week for the 50% and 90% design submittals respectively.

Please contact Robert Noble at (916) 952-9814 or robert.noble@atssmartsolutions.com should you have any questions regarding this proposal. ATS Innova appreciates the opportunity to work with Valley District on this project.

Sincerely,

Kirk Langston
EVP Water Treatment
ATS Innova
The Strategic Analysis/Plan Committee held a Workshop on November 9, 2017. President Longville chaired the meeting and Directors Bulot, Copelan, Hayes and Navarro participated in the meeting. Doug Headrick and Bob Tincher, from staff, were also in attendance. The following agenda items were discussed:

A. **Summary of October 9, 2017 Meeting.** There were no changes to the meeting summary

B. **Consider Proposal from RAND Corporation to Estimate Future Water Demand.**
   At the October 9, 2017, Strategic Analysis and Plan Committee (Committee) workshop, the Committee asked staff to request a single proposal from the RAND Corporation (RAND) to provide an independent analysis of water demand in the Valley District service area. RAND provided a proposal for a total cost of $44,142. The Committee asked staff to place the RAND proposal on the November 21, 2017 Board of Directors agenda for full consideration.

**Staff Recommendation:**
Receive and file
DATE: December 5, 2017

TO: Board of Directors

FROM: Douglas Headrick, General Manager
       Cindy Saks, Finance Manager
       Bob Tincher, Manager of Water Resources
       Wen Huang, Manager of Engineering
       Mike Esquer, Project Manager
       Aaron Jones, Assistant Engineer

SUBJECT: Board of Directors’ Workshop Meeting November 14, 2017

The Board of Directors’ met in a workshop on Tuesday, November 14, at the offices of the San Bernardino Valley Municipal Water District. Vice President Navarro chaired the meeting and Directors Bulot, Copelan and Hayes participated in the meeting. Douglas Headrick, Cindy Saks, Bob Tincher, Wen Huang, Mike Esquer, Aaron Jones and Heather Dyer of staff also attended the meeting.

The summary notes from the October 10, 2017 Board Workshop were reviewed with no additional comments.

The meeting agenda contained the following items for discussion:

4.1 Quarterly Investment Portfolio Update with PFM Asset Management
Cindy Saks introduced the District’s financial advisor Richard Babbe from PFM Asset Management who reviewed the quarterly investment portfolio activity. Richard reported on current interest rates, earnings and trends, current diversity of the District’s portfolio and trades made during the quarter.

4.2 Presentation of USGS Data Collection Program
Dianna Crilley, Associate Director for Data with the USGS gave an overview of the 2017-18 data collection program that is partially funded by Valley District. The data is critical to provide an understanding of the status of our local water resources and is used to help to guide long-range planning and other decisions.

4.3 Consider Extension of CLAWA Agreement
Staff presented an amendment to an existing agreement with the Crestline Lake Arrowhead Water Agency (CLAWA) that would extend the term to December 31, 2035. In the Agreement, both agencies agreed to extend the Agreement, as necessary, until CLAWA receives all of the water they are entitled to under the terms of the Agreement. Those Board members in attendance asked that this amendment be forwarded to an upcoming Board meeting for consideration.

4.4 Consider Annexation No. 62 to the San Bernardino Valley Municipal Water District
During preparation of the 2017 Countywide Service Review for Water (Wholesale, Retail, Recycled), the San Bernardino County Local Agency Formation Commission (LAFCO) identified a Board of Equalization and County Assessor mapping error in Valley District's boundary. Staff recommended annexation of this area to the Valley District service area that would correct this error. The total cost to process the annexation application through LAFCO is $8,570. Inland Empire Utilities Agency will be sharing the cost of this application so that Valley District's portion will be $4,285.

4.5 Consider Additional Funding for the USACE for the City Creek Scour Project
Staff reviewed the City Creek Scour Project, including the history of events, from 2003 through the present. Staff discussed the ongoing work with the U.S. Army Corps of Engineers (USACE) and a proposed feasibility study regarding the potential for tunneling under City Creek. Staff presented the need for an additional $28,000 for additional analyses by the USACE to complete the Section 14 Study for the implementation of a rock, pool and riffle technique to stabilize the City Creek channel. The Board members present at the workshop asked that the request for additional funding be forwarded to the next Board meeting for consideration.

4.6 Consider Design for Water Treatment of State Project Water
Staff presented how they have been investigating ways in which to treat algae growth within Valley District's facilities, and the results obtained from applying EarthTec at Badger Basins. Based on the preliminary results and a need to have the ability to treat algae...
growth in the future, Staff obtained two proposals from consultants to design a water
treatment injection system at two locations along the Foothill Pipeline; 1) Sweetwater
Turnout and 2) Line Valve 2. At the conclusion of the discussion, Staff was directed to
place the proposal for the design of an injection system into the Foothill Pipeline by Alpine
Technical Smart Solution Innova for the cost of $27,000 on the December 5, 2017 Board
agenda for consideration.

4.7 Consider Management Reorganization Plan
Staff presented a proposed re-organization of the senior management staff along with a
new position to support the implementation of the Habitat Conservation Plan. Those
Boardmembers in attendance directed staff to place these two items on a future Board
meeting agenda for consideration. A proposal to add CEO to the General Manager’s
title was not moved forward.

4.8 Consider Purchase of Additional Sites Reservoir Class 1 Water
Staff presented a request to fund the conversion of 4,334 acre-feet of Class 2 water to
Class 1 water from the Sites Reservoir Project for $206,336. The water is being made
available to Valley District, and other project partners, due to two agencies releasing
their reserved Class 1 water.

4.9 Consider Appointment to Countywide RDA Oversight Board
The committee discussed the consolidation of individual oversight boards to one
Countywide RDA Oversight Board and the process of nominating a regular and an
alternative member to represent Special Districts. Once nomination forms are received
from San Bernardino County LAFCO in late January 2018, staff was directed to place an
item on an upcoming Board agenda for consideration to appoint Cindy Saks as the Special
District representative.

Staff Recommendation:
Receive and file.
DATE: December 5, 2017

TO: Board of Directors

FROM: Heather Dyer, Water Resources Project Manager

SUBJECT: Water Use Efficiency Committee Workshop November 15, 2017

Director Navarro chaired the meeting. Director Copelan and Director Hayes attended the meeting. Heather Dyer and Bob Tincher of Valley District staff attended the meeting. The committee meeting agenda contained the following discussion items and activities:

1. **Summary of the October 18, 2017, meeting.** There were no changes to the meeting summary.

2. **Summary of Budgeted and Approved Costs for Rebate Programs.** Heather Dyer reported there are no changes to the expenditures for the Water Use Efficiency Program since last month’s report. Director Navarro requested that this month’s summary of the Rebate Programs be provided at the next BTAC meeting.

3. **Status Report on Water Conservation Education Program.** Bob Tincher reported that the Inland Empire Resource Conservation District (IERCD) will be presenting their educational curriculum at the December 20, 2017, meeting.

**Staff Recommendation:**
Receive and file
DATE: December 5, 2017

TO: Board of Directors

SUBJECT: List of Announcements

A. December 6, 2017- Legislative and Policy Committee, 1:30 p.m. at the District Office
B. December 11, 2017 – Association of San Bernardino County Special Districts’ Dinner, 6:30 p.m., Yucaipa Valley Water District’s Crystal Creek Facility
C. December 12, 2017 – Board of Directors’ Workshop, 3:00 p.m. at the District Office
D. December 13, 2017 – Park Management and Property Committee Workshop, 10:00 a.m. at the District Office
E. December 14, 2017 – Strategic Analysis/Plan Committee Workshop, 3:00 p.m. at the District Office
F. December 14, 2017 – Advisory Commission on Water Policy, 6:30 p.m. at the District Office
G. December 19, 2017 – SAWPA Commission Meeting, 9:30 a.m. at SAWPA
H. December 19, 2017 – Board of Directors’ Meeting, 2:30 p.m. at the District Office
I. December 20, 2017 – Water Use Efficiency Committee Workshop, 1:30 p.m. at the District Office
J. December 21, 2017 – Baseline Feeder Committee Workshop, 3:00 p.m. at the District Office
## 2017 SBVMWD Board and Committee Meetings | Events

All meetings listed are held at the SBVMWD Administrative office; meeting dates and times are subject to change or cancellation; check District website calendar at [www.sbvmwd.com](http://www.sbvmwd.com) for the most up-to-date meeting information.

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<thead>
<tr>
<th>January</th>
<th>February</th>
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<tr>
<td>1/3/17  Regular Board Meeting (2:30pm)</td>
<td>2/1/17  Legislative &amp; Policy Cmte (1:30pm)</td>
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<td>1/3/17  Financing Corporation Meeting</td>
<td>2/2/17  External Affairs Cmte (9:00am)</td>
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<td>1/4/17  Board of Directors Workshop (3:00pm)</td>
<td>2/6/17  Basin Technical Advisory Cmte (1:30pm)</td>
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<td>1/11/17 Reservoir Cmte (3:00pm)</td>
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<td>1/17/17 Regular Board Meeting (2:30pm)</td>
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<td>1/23/17 Baseline Feeder Cmte (3:00pm)</td>
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<td>2/15/17  Water Use Efficiency Cmte Workshop (1:30pm)</td>
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<td>2/16/17  Baseline Feeder Cmte Workshop (3:00pm)</td>
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<td>2/21/17  Regular Board Meeting (2:30pm)</td>
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<td>3/16/17 Baseline Feeder Cmte Workshop (3:00pm)</td>
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<td>5/1/17 Wages, Benefits &amp; Insurance Cmte (8:00am)</td>
<td>6/1/17  External Affairs Cmte Workshop (9:00am)</td>
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