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NOTICE REGARDING (COVID-19)

Before public comments are considered, the record will reflect that pursuant to the provisions of Executive Order N-29-20 issued by Governor Gavin Newsom on March 19, 2020, this meeting will be conducted by teleconference only.



Call to Order

Board of Directors Workshop - Engineering
Tuesday, September 8, 2020

Chairperson – Director Kielhold
Vice-Chair – Director Hayes



Introductions

Following the introduction of Directors and District staff, participants may use this time to state their name and agency/affiliation in order to be included in the formal record of attendees.



Public Comment

Any person may address the Board on matters within its jurisdiction.

Please use the chat feature on the Zoom toolbar or digitally raise your hand to let the moderator know you would like to make a comment.



Summary of Previous Meeting (Pg. 3)

Board of Directors Workshop – Engineering
August 11, 2020



Discussion Item 4.1 (Pg. 8)

Heather Dyer, MS, MBA – Chief Executive Officer/General Manager
Bob Tincher, PE, MS – Chief Water Resources Officer/Deputy
General Manager

Consider Sponsoring the Center for Western Weather and
Water Extremes (CW3E) Water Affiliates Group to Study
Atmospheric Rivers

Staff Recommendation

This item is within the signing authority of the Chief Executive Officer/General Manager. Approval is not required at a Board meeting, unless desired.

Director Comments and Discussion



**T. Milford
Harrison**
President



**Paul
Kielhold**
Vice President



**Susan
Longville**
Treasurer



**June
Hayes**
Director



**Gil
Navarro**
Director

Staff Recommendation

This item is within the signing authority of the Chief Executive Officer/General Manager. Approval is not required at a Board meeting, unless desired.

Discussion Item 4.2 (Pg. 22)

Mike Esquer – Senior Project Manager

Brent Adair – Project Manager II

Discuss Bid Results for Construction of Waterman Hydroelectric Project

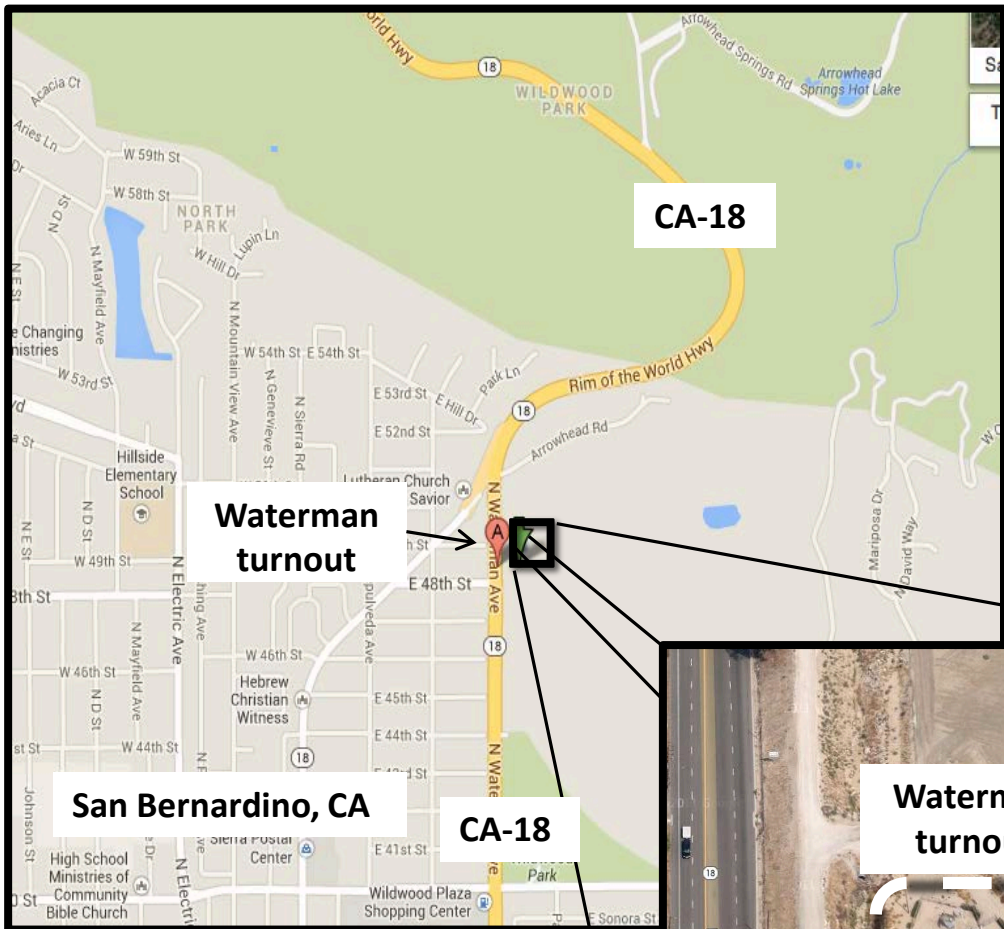
Staff Recommendation

Staff recommends the items presented in the staff memorandum, and summarized below, be placed on the next Board of Directors meeting for consideration:

- 1) Waive minor irregularities and award the contract to Borden Excavating, Inc.;
- 2) Authorize the CEO/General Manager approve contingent costs up to ten (10) percent above the contract amount;
- 3) Authorize the CEO/General Manager to contract with professional inspection and materials testing firms up to \$123,900.

Background

- The Board of Directors approved a design and engineering service contract with NLine Energy at its meeting on May 6, 2014. Subsequently, the Board of Directors approved the procurement of the turbine, generator, switchgear, programmable logic control systems, meters, valves and actuators for the Project.
- At the Joint Board Meeting with the City of San Bernardino Municipal Water Department (SBMWD) on January 30, 2019, the Board agreed to partner with SBMWD for the development of the Project.
- The design has since been completed and the Project was advertised for bids in June 2020.







Discussion

- Staff received bids on August 13, 2020. Nine (9) bids were received, ranging from \$2.253M to \$3.789M. The three lowest bidders (lowest to highest) are Borden Excavating, Inc. (\$2,252,000), Environmental Construction, Inc. (\$2,657,153), and Kiewit Infrastructure West Co. (\$2,941,000).
- Staff concluded that Borden Excavating, Inc. is a responsible and responsive bidder that submitted the lowest bid at \$2,252,000 pending review of minor irregularities (attached) by District Special Construction Counsel, Mary Salamone.
- It is recommended that the Board of Directors consider authorizing contingent costs of up to ten (10) percent above the contract amount, or \$225,200.
- Consider authorizing CEO/GM to contract with professional inspection and material testing firms for the Project up to a budgetary amount of \$123,900 using established selection procedures.

BUDGET ESTIMATE

Waterman Hydroelectric Project

	SBVMWD Amount	SBMWD Amount
Engineers Estimate (100% Design)	\$5,309,845	
Engineering Design & PM	\$ 494,047	\$ 413,977
Pre-purchase Items	\$ 1,014,965	\$ 632,737
CAISO Equipment	\$ 20,500	\$ 20,500
Construction	\$ 1,196,000	\$ 1,056,000
SCE Estimated Costs	\$ 144,500	\$ 144,500
10% Contingency	\$ 119,600	\$ 105,600
Special Inspections	\$ 61,800	\$ 61,800
Estimated Project Costs	\$ 3,051,411	\$ 2,435,113
Total Estimated Project Costs	\$ 5,486,524	

Director Comments and Discussion



**T. Milford
Harrison**
President



**Paul
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Discussion Item 4.3 (Pg. 59)

Bob Tincher, PE, MS – Chief Water Resources Officer/Deputy General Manager

Consider Amendment 6 to the Yuba Accord Agreement for a Dry Year Water Supply

Staff Recommendation

Staff recommends the Board direct staff to place this item on the next Board of Directors regular meeting agenda for consideration.

Director Comments and Discussion



**T. Milford
Harrison**
President



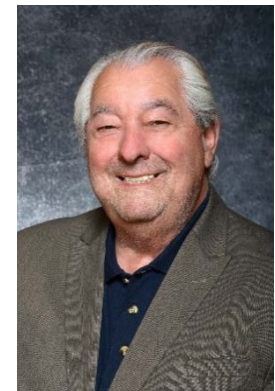
**Paul
Kielhold**
Vice President



**Susan
Longville**
Treasurer



**June
Hayes**
Director



**Gil
Navarro**
Director

Staff Recommendation

Staff recommends the Board direct staff to place this item on the next Board of Directors regular meeting agenda for consideration.



Discussion Item 4.4 (Pg. 78)

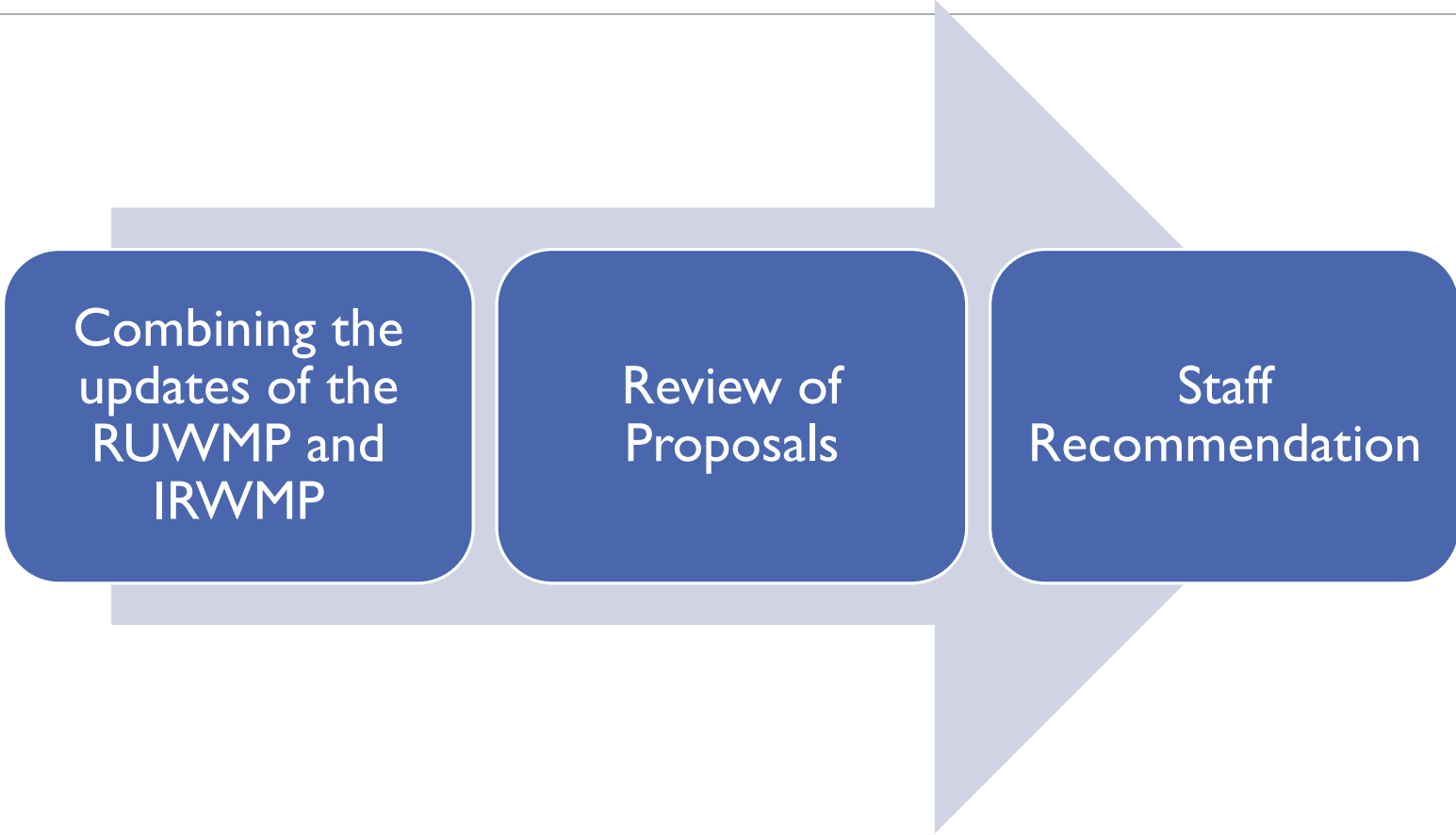
Matt Howard, MS – Water Resources Senior Project Manager

Consider Participation in the Update of the 2015 Upper Santa Ana River Watershed Integrated Regional Water Management Plan and the 2015 San Bernardino Valley Regional Urban Water Management Plan

Staff Recommendation

Staff recommends the Board direct staff to place this item on a future Board of Directors regular meeting agenda for consideration.

Overview



Combining the
updates of the
RUWMP and
IRWMP

Review of
Proposals

Staff
Recommendation

Updating the IRUWMP

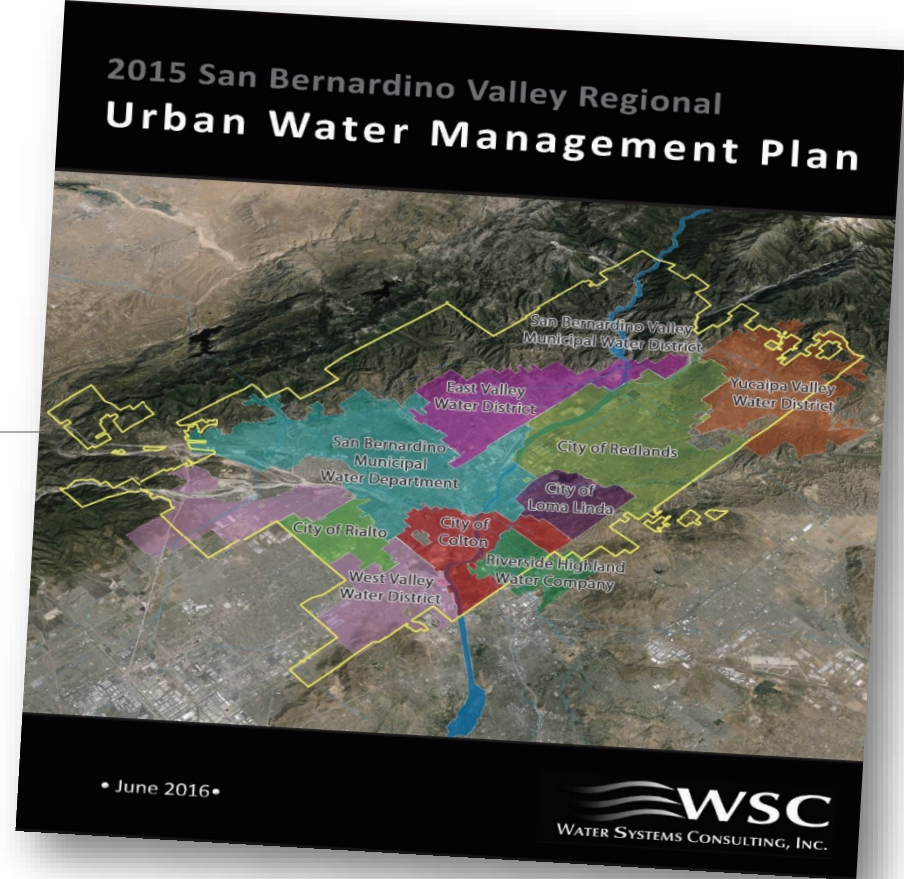
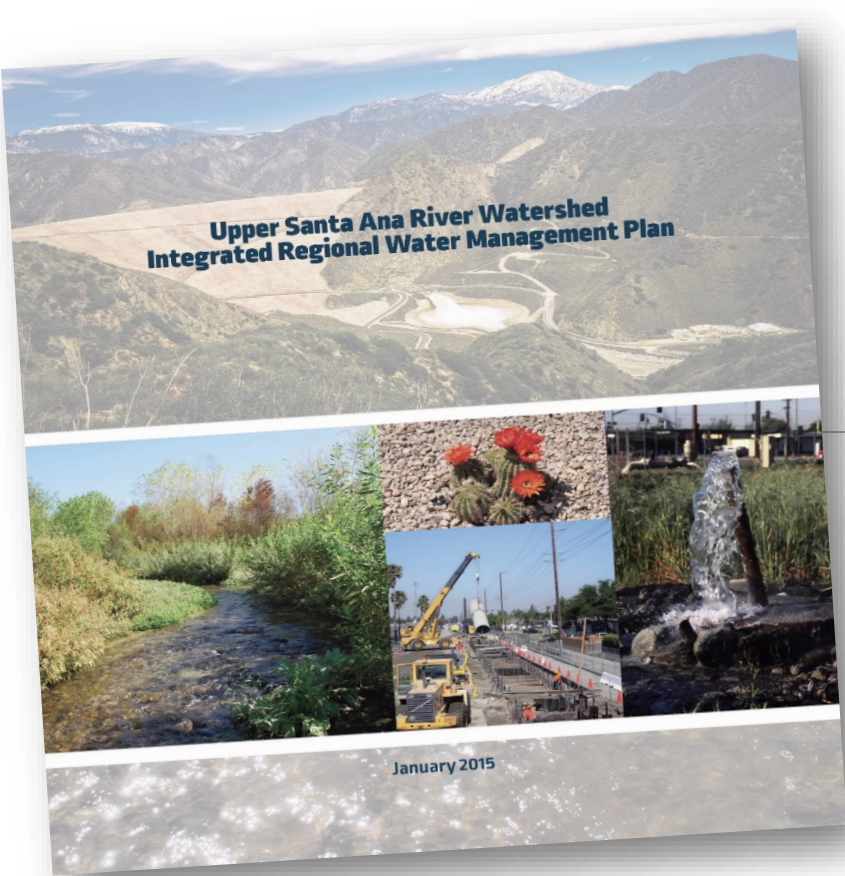
Valley District is proposing to combine the 2015 RUWMP and the 2015 IRWMP into one document called the 2020 Upper Santa Ana River Integrated Regional Urban Water Management Plan (IRUWMP).

The IRUWMP will ensure long-term water supplies are available to meet existing and future demands

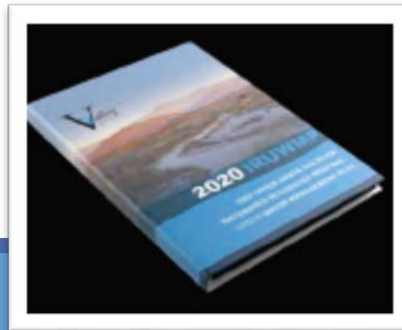
- Long term = 20 years
- Must to prepared/updated every 5 years
- Must incorporate long term drought scenarios (5 & 30 year drought scenarios)

The IRUWMP will also re-evaluate goals and strategies developed by the BTAC:

- Improve water supply reliability
- Balance flood management and increase stormwater recharge
- Improve water quality
- Improve habitat and open space



2020 Integrated Regional Urban Water Management Plan (IRUWMP)



New Requirements and Analyses

New Water Shortage Contingency Plans

- Provide an action plan for drought/catastrophic water shortage
- Six standard water shortage stages

Expanded Analysis of Water Demand Management Measures

- Water loss information to be provided by each agency
- SB X7-7 look back comparison reporting

Seismic Risk Assessment

- Mitigation Plan and Seismic Risk Assessment
- Description of water system vulnerabilities

Climate Change Analysis

- Evaluates potential long-term reliability on supplies

Incorporation of the RAND evaluation of supplies and demands

Overlapping Chapters

2015 IRWMP CHAPTERS

1. Regional Planning, Governance, Outreach and Coordination
2. Region Description
3. Water Budget
4. Goals and Objectives
5. Water Management Strategies
6. Projects
7. Implementation
8. Data Management, Plan Performance and Adaptive Management

2015 RUWMP CHAPTERS

1. Introduction
2. Regional Water Sources
3. Regional Water Use
4. Comparison of Regional Supplies and Demands
5. Regional Water Shortage Contingency Planning
6. Agency Chapters

Overlapping Chapters

2015 IRWMP CHAPTERS

2015 RUWMP CHAPTERS

1. Regional Planning, Governance, Outreach and Coordination

1. Introduction

2. Region Description

2. Regional Water Sources

3. Water Budget

3. Regional Water Use

4. Comparison of Regional Supplies and Demands

4. Goals and Objectives

5. Regional Water Shortage Contingency Planning

5. Water Management Strategies

6. Projects

6. Agency Chapters

7. Implementation

8. Data Management, Plan Performance and Adaptive Management



2020 IRWMP/ RUWMP Chapters

1. Introduction/Regional Planning, Governance, Outreach and Coordination
2. Region Description, Regional Water Sources
3. Water Budget, Regional Water Use, Comparison of Regional Supplies and Demands
4. Goals and Objectives
5. Water Management Strategies, Regional Water Shortage Contingency Planning
6. Agency Chapters
7. Projects
8. Implementation
9. Data Management, Plan Performance and Adaptive Management

Participating IRUWMP agencies

Integrated agencies

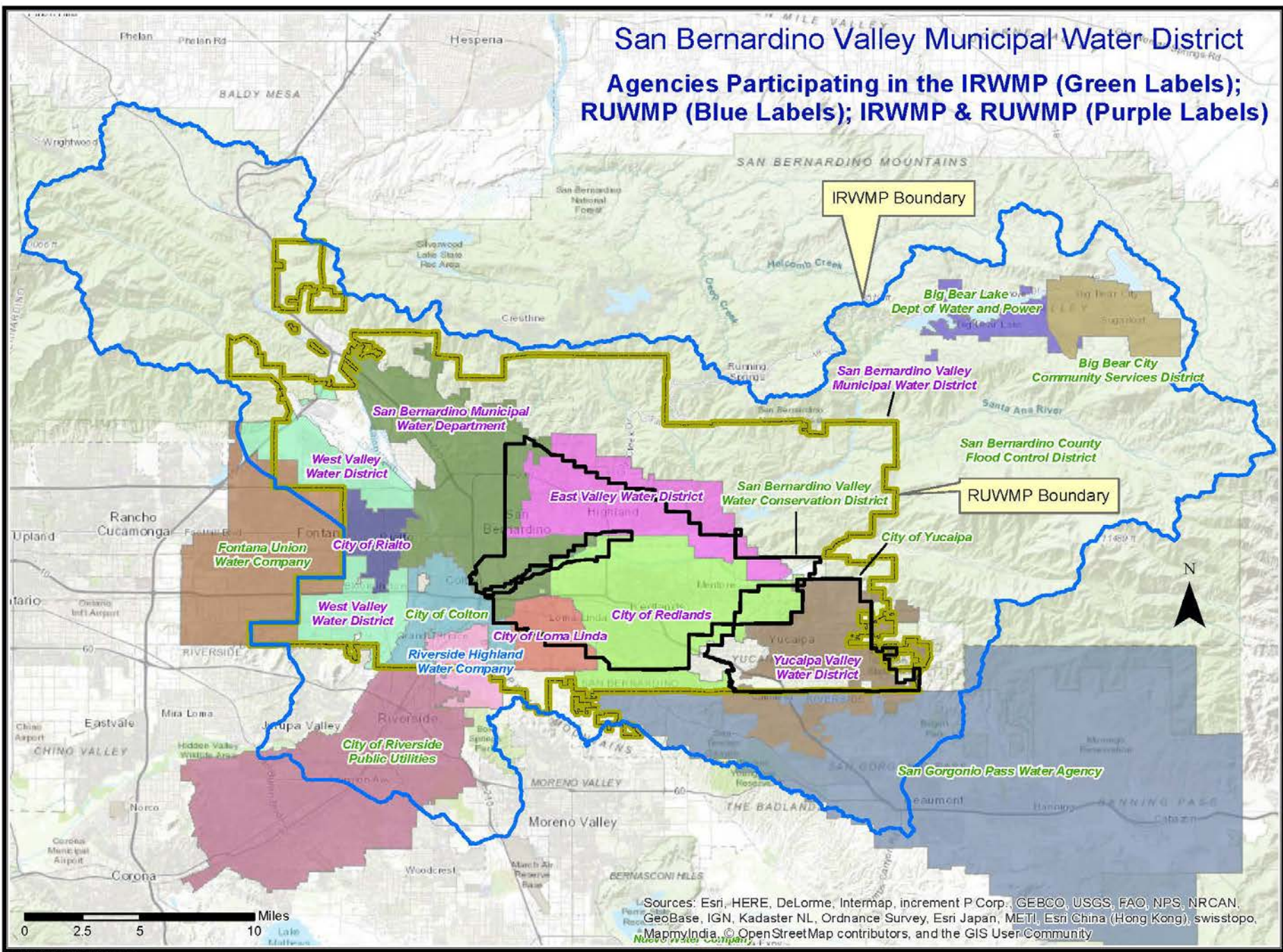
1. **Big Bear Lake Department of Water and Power**
2. **Big Bear City Community Services District**
3. East Valley Water District
4. **Fontana Union Water Company**
5. City of Loma Linda
6. City of Redlands
7. City of Rialto
8. **City of Riverside Public Utilities Department**
9. **San Bernardino County Flood Control District**
10. San Bernardino Municipal Water Department
11. San Bernardino Valley Municipal Water District
12. **San Bernardino Valley Water Conservation District**
13. **San Geronio Pass Water Agency**
14. West Valley Water District
15. Yucaipa Valley Water District

UWMP Agencies

1. **City of Colton**
2. East Valley Water District
3. City of Loma Linda
4. City of Redlands
5. City of Rialto
6. **Riverside Highland Water Company**
7. San Bernardino Municipal Water Department
8. San Bernardino Valley Municipal Water District
9. West Valley Water District
10. Yucaipa Valley Water District

San Bernardino Valley Municipal Water District

Agencies Participating in the IRWMP (Green Labels); RUWMP (Blue Labels); IRWMP & RUWMP (Purple Labels)



Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Analysis of Proposals

- Firm 2

- Total Cost: \$ 206,400
- Total Hours: 1,074
- Hourly Rate: \$ 192.18

- Firm 3

- Total Cost: \$ 591,510
- Total Hours: 2,840
- Hourly Rate: \$ 208.28

- WSC

- Total Cost: \$ 393,100
- Total Hours: 2,133
- Hourly Rate: \$ 184.29



Valley District RFP Process

Proposal review panel and staff analyzed the proposals, and held interviews with each consultant.

Water Systems Consulting (WSC) was unanimously recommended by the proposal review panel after the interviews were complete.

- Review Panel felt their extensive experience preparing Integrated and Regional Plans all over the state and their regional experience preparing the 2015 Integrated Plan and 2015 Regional Plan as well as other studies in our region would be advantageous to Project.

On August 27, a meeting was held with all of the participating agencies to receive their feedback on the selection of WSC and proposed cost breakdown. The participating agencies supported the selection of WSC and the cost breakdown provided.

Cost Sharing Methodology

IRWMP UPDATE (2015)

Equal cost share

RUWMP UPDATE (2016)

Regional Sections

- Valley District 50%
- Agencies equal share of the balance

Agency Chapters

- Agencies pay the actual cost to develop their chapter

IRUWMP (2020)

Regional Sections

Valley District 50%

Agencies equal share of the balance

Agency Chapters

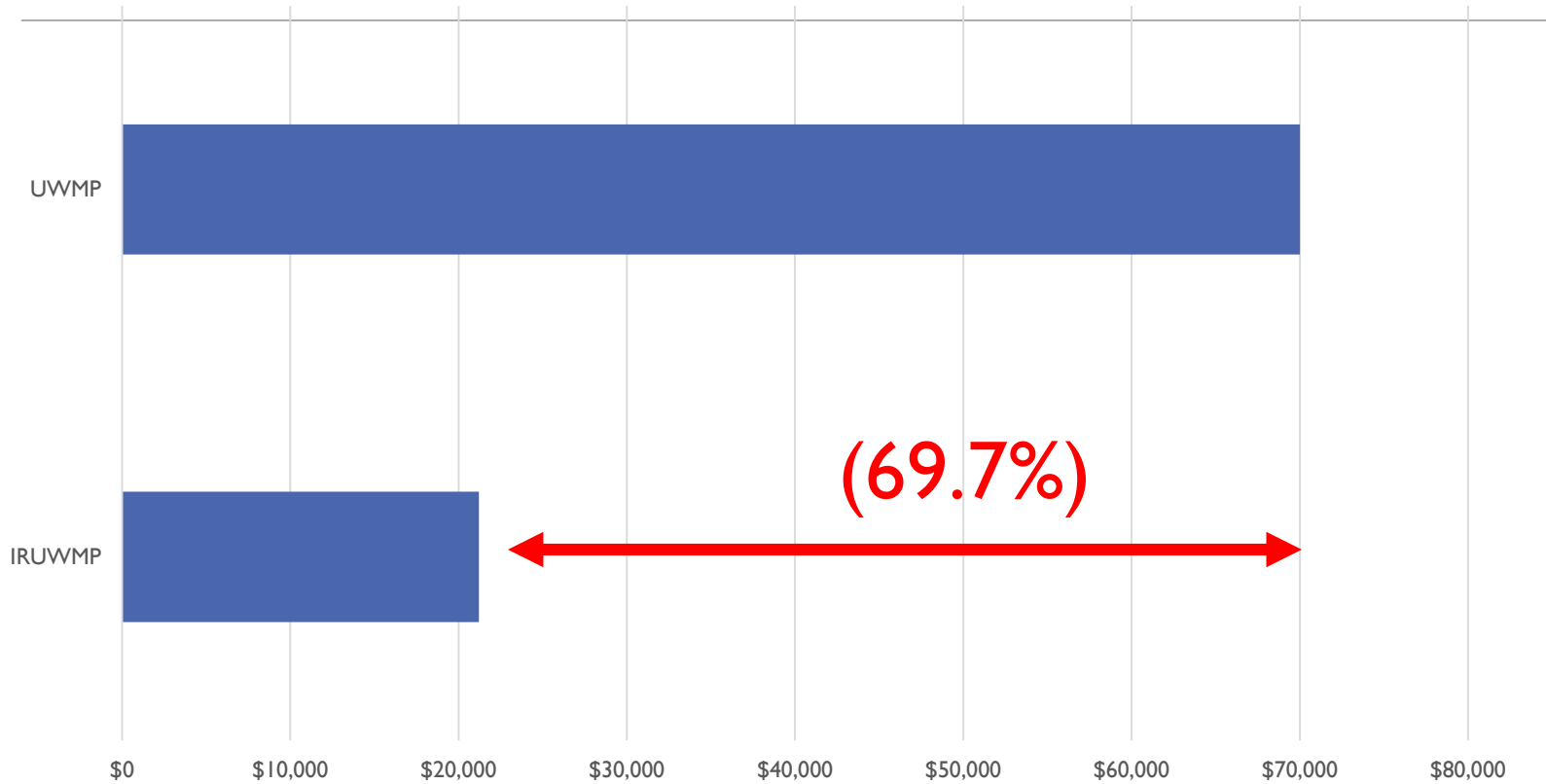
Agencies pay the actual cost to develop their chapter



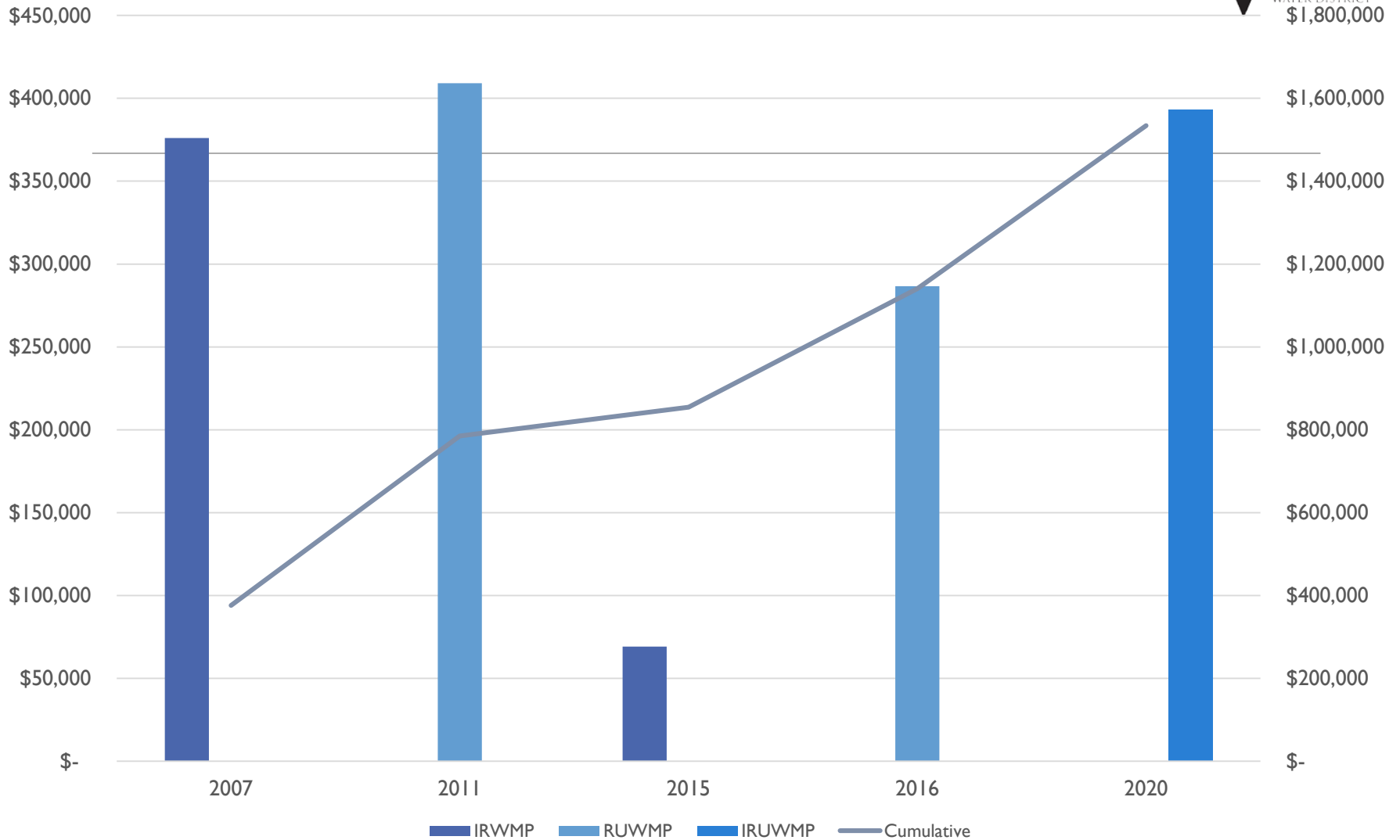
Cost-Agency Breakdown

2020 Integrated Regional Urban Water Management Plan Update							
Water Systems Consulting Proposal							
<u>Total Proposal Cost - WSC</u>					<u>\$393,100</u>		
Total Agency Chapters (3)					\$194,580		
Total Regional Sections/Tasks (0, 1, 2, 4)					\$198,520		
San Bernardino Valley Municipal Water District					\$99,260	50% of Regional Section	
Balance Regional Sections					\$99,260		
COST SHARING BY AGENCY							
Agency			Regional Sections	Agency Urban Chapter	TOTAL PROPOSAL	Total (%)	
Big Bear Lake Department of Water and Power	\$		6,203.75		\$ 6,204	2%	
Big Bear City Community Services District	\$		6,203.75		\$ 6,204	2%	
City of Colton	\$		6,203.75	\$ 21,200	\$ 27,404	7%	
City of Loma Linda	\$		6,203.75	\$ 21,200	\$ 27,404	7%	
City of Redlands	\$		6,203.75	\$ 21,200	\$ 27,404	7%	
City of Rialto	\$		6,203.75	\$ 21,200	\$ 27,404	7%	
City of Riverside Public Utilities Department	\$		6,203.75		\$ 6,204	2%	
East Valley Water District	\$		6,203.75	\$ 21,200	\$ 27,404	7%	
Fontana Union Water Company	\$		6,203.75		\$ 6,204	2%	
Riverside-Highland Water Company	\$		6,203.75	\$ 21,200	\$ 27,404	7%	
San Bernardino County Flood Control District	\$		6,203.75		\$ 6,204	2%	
San Bernardino Municipal Water Department	\$		6,203.75	\$ 21,200	\$ 27,404	7%	
San Bernardino Valley Municipal Water District	\$		99,260.00	\$ 21,200	\$ 120,460	31%	
San Bernardino Valley Water Conservation District	\$		6,203.75		\$ 6,204	2%	
San Geronio Pass Water Agency	\$		6,203.75		\$ 6,204	2%	
West Valley Water District	\$		6,203.75	\$ 21,200	\$ 27,404	7%	
Yucaipa Valley Water District	\$		6,203.75	\$ 3,780	\$ 9,984	3%	
		TOTAL	\$ 198,520	\$ 194,580	\$ 393,100	100%	

Agency Cost Savings (IRUWMP)



IRWMP/RUWMP Cost Over Time



Director Comments and Discussion



**T. Milford
Harrison**
President



**Paul
Kielhold**
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Staff Recommendation

Staff recommends the Board direct staff to place this item on a future Board of Directors regular meeting agenda for consideration.



Future Business



Adjournment
