Date: January 3, 2019

To: Water Resources and Watershed Committee
Maria Gutzeit, Chair
Tom Campbell
Kathy Colley
William Cooper
Robert DiPrimio
Jerry Gladbach
Jacque McMillan

From: Steve Cole, Assistant General Manager

The **Water Resources and Watershed Committee** is scheduled to meet on **Wednesday, January 9, 2019 at 6:00 PM at Santa Clarita Water Division** located at 26521 Summit Circle, Santa Clarita, CA 91350 in the Training Room.

MEETING AGENDA

ITEM			PAGE
6.	*	Committee Planning Calendar	39
7.		Adjournment	

* Indicates attachments
♦ To be distributed

NOTICES:

Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by telephoning (661) 297-1600, or writing to Santa Clarita Valley Water Agency at 27234 Bouquet Canyon Road, Santa Clarita, CA 91350. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that Agency staff may discuss appropriate arrangements. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the Agency to provide the requested accommodation.

Pursuant to Government Code Section 54957.5, non-exempt public records that relate to open session agenda items and are distributed to a majority of the Board less than seventy-two (72) hours prior to the meeting will be available for public inspection at the Santa Clarita Valley Water Agency, located at 27234 Bouquet Canyon Road, Santa Clarita, California 91350, during regular business hours. When practical, these public records will also be made available on the Agency's Internet Website, accessible at http://www.yourscvwater.com.

Posted on January 3, 2019.

MGS

ITEM NO.
2.1

COMMITTEE MEMORANDUM

DATE: December 20, 2018

TO: Water Resources and Watershed Committee

FROM: Dirk Marks
Director of Water Resources

SUBJECT: Devil's Den Semi-Annual Report (July 2018 – December 2018)

SUMMARY AND DISCUSSION

SCV Water's Devil's Den property encompasses 8,656 acres in Kern and Kings Counties. The Devil's Den Water District is an existing entity, although its State Water Project (SWP) contract rights of 12,700 Acre-Feet have been transferred to SCV Water (as successor-in-interest to Castaic Lake Water Agency). A summary of activities at SCV Water's property during the last six months of 2018 follows:

1. Groundwater levels are checked bi-monthly at the north end of the property to monitor the potential effects of groundwater pumping by neighboring agriculture operations. Current water levels are approximately 76 feet below ground surface elevation. This reflects a slight decrease of 6 feet in the well levels over the last six months. Typical static water levels are at approximately 60 feet.

2. A cattle herd of 750 cows and calves are grazing various sections of the property providing weed control.

3. Rolling Hills Farm continues mechanical weed control in areas of the property where cattle are not being grazed, such as fence lines and roadsides.

4. Rolling Hills Farm will grow a winter dryland grain crop of both wheat and barley. Approximately 320 acres of wheat and 150 acres of barley are currently being planted.

5. There has been approximately 1.75" of rain on the property since July 2018.

6. The Department of Water Resources (DWR) has replaced its DDWD turnout meter and placed the turnout back in service. DWR is also repairing a defective hydraulic ram that is keeping the slide gate at the turnout from closing completely. After DWR completes its repair of the hydraulic ram, a pipeline leak at an adjacent distribution vault and replacement of the DDWD vault's slide gate will be addressed.

7. A new GIS generated graphic showing groundwater well locations with associated photos and GPS coordinates is being created and is 98% complete. All of Kings County and most of Kern County portions of the Devil's Den property have been mapped. There are a few wells in Dagany Gap that still need to be located and added to the map.

8. In August 2018, the solar power entity that SCV Water has agreements with, SunPower, Inc, (SunPower), was purchased by Clearway Energy (Clearway). Clearway has expressed interest in continuing the work started by SunPower. Over the coming months, staff will be working with Clearway to re-evaluate the agreements and enter into a new Reimbursement and Indemnification Agreement and Site Control Agreement, as well as a new Memorandum of Understanding. In the meantime, Clearway will continue preliminary investigative work started by SunPower.

RGV

MGS

ITEM NO.
2.2

COMMITTEE MEMORANDUM

DATE: December 27, 2018

TO: Water Resources and Watershed Committee

FROM: Dirk Marks
Director of Water Resources

SUBJECT: Status of Rosedale Rio-Bravo Water Storage District Banking and Exchange Program Extraction Facilities

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SUMMARY

The Rosedale Rio-Bravo Water Storage District Banking and Exchange Program Extraction Facilities project is nearly complete. Since the last update equipping of the six wells has been completed and pipeline connections to the wells have been made. Completion of well testing is anticipated in January 2019, and full completion of the entire project (delayed by completion of the pumping plant) is anticipated in the summer 2019. A summer grand opening is planned. Water from the six newly constructed wells will be available to SCV Water prior to the grand opening, if needed. A cash flow model update was provided in September 2018 and the budget remains tight. SCV Water's project cost estimate remains at $9,736,000.

DISCUSSION

This project increases SCV Water's ability to recover banked water from 3,000 AFY to 10,000 AFY by the installation of six wells and a system to convey water to the Cross Valley Canal. This canal discharges pumped water to the California Aqueduct, allowing delivery of water to SCV Water.

Key components of the project include six new wells, buried pipelines to convey extracted water into a facility (pumping plant) that discharges water into the Cross Valley Canal. Water in the Cross Valley Canal then discharges into the California Aqueduct.

Since our last update in March 2018, the equipping of the six new wells is complete. The most recent activities related to well equipping included installation of well switch gear, connection of power, and security systems. Two previously installed butterfly valves in the buried pipeline failed to open. The cause of the failure is not yet known, but the valves have been removed and sent back to the manufacturer for inspection. Rosedale-Rio Bravo (RRB) has issued a time and material change order to address this and purchased new 30-inch valves. Total estimated cost for investigation and valve replacement is $50,000. Some of this cost may be offset by a valve warranty reimbursement being pursued by RRB.

In January 2019, the six new wells will be operated and tested. The testing includes operating wells in a system-wide manner. During well operation, groundwater elevations will be monitored and water quality samples collected. A technical report will be prepared.

The project is anticipated to be fully operational by summer 2019, and a grand opening event will take place. If SCV Water needs to draw on the six wells prior to project completion, RRB can make the well water available (pending repairs to the butterfly valves described above).

FINANCIAL CONSIDERATIONS

In 2015, the former Castaic Lake Water Agency (now SCV Water) was awarded grant funding through a Proposition 84 2014 Drought Grant. This project will receive up to $4,575,421 in project cost reimbursements. SCV Water's financial commitment will extend to work completed in FY 2018/19. The current estimated major capital project cost remains $9,736,000. In September 2018, following an SCV Water request, an updated cash flow model was received from RRB. The September 2018 cash flow model indicates that adequate budget remains, although the budget is tight.

RDV

MGS

ITEM NO.
4

COMMITTEE MEMORANDUM

DATE: December 26, 2018

TO: SCVWA Water Resources and Watershed Committee

FROM: Dirk Marks
Director of Water Resources

SUBJECT: Recommend Authorizing the General Manager to Execute an Agreement for SCV Water's Participation in Sites Reservoir 2019 Participation Agreement

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SUMMARY

Initial planning efforts for the Sites Reservoir Project are scheduled to be completed in March 2019. Those entities that desired to continue their participation in 2019 will be required to enter into a 2019 Participation Agreement. Under the agreement, a maximum charge of $60 per acre-foot of participation rights will be required. Entities that were previously assigned Class 2 participation rights may convert these to Class 1 rights by making a catchup payment of $24.25 per acre-foot. The 2019 work plan includes initiating work on a final EIR/EIS and consultation with state and federal resources agencies on necessary operating permits. This work is necessary to more clearly define anticipated yield and cost effectiveness of the project.

DISCUSSION

As shown on Figure 1, the proposed Sites Reservoir project is located 60 miles north of Sacramento near the town of Maxwell. It is an off-stream reservoir designed to take water during high flow conditions and release water during drier periods. As shown on Figure 2, participants that anticipated participating in 2019 planning activities represent entities located both upstream and downstream of the Delta.

On June 22, 2016 Castaic Lake Water Agency's Board authorized participation in the initial planning activities for the Sites Reservoir for a total share of 5,000 acre-feet (AF). Initial requests from interested agencies exceeded the 250,000 AF of available shares, thus requests were proportionately reduced. SCV Water currently has participation rights to 2,845 AF of Class 1 Shares and 2,115 AF of Class 2 Shares. Class 2 shares were issued for the possible conversion to Class 1 shares in subsequent phases of the project. For 2019, all Class 2 shares can be converted into Class 1 shares.

To date, Sites Reservoir Project work efforts have covered preparation of a Draft Environmental Impact Report and an application for Proposition 1 Grant funding, as well as the pursuit of federal funding. The Sites Reservoir Joint Powers Authority (Sites JPA) successfully competed for $816 million of Proposition 1 funding. Additionally, over $4 million of Water Infrastructure Improvement for the Nation (WIIN) Act funding was secured. Additional WINN Act funding is anticipated to be available for 2019 planning costs.

Further, the Department of Agriculture announced a $449 million award through USDA's Communities Facilities direct loan program to construct the Maxwell Water Intertie, a

3.5 mile, 12-foot diameter pipeline that would connect the existing Tehama Colusa Canal and the existing Glenn Colusa Irrigation District's main canal. These facilities are part of the Sites Reservoir facilities plan that would otherwise have to be constructed.

Along with securing substantial funding for the project, the Sites JPA prepared work plans and selected a suite of consultants to advance the project. The next work effort will cover the period between April 2019 – December 2019. These activities include supplemental analyses necessary for further funding under the WIIN Act, early coordination with the Department of Dam Safety, development of participant operating agreements, initiating work on a final EIR/EIS and consultation with state and federal resources agencies on necessary operating permits. While initial modeling indicates that the Sites Reservoir Project provides a cost effective source of water, the yield of the project could vary significantly based on the permitting requirements imposed by the regulatory agencies. With information made available from 2019 work activities, participants will have additional information related to project yield and cost effectiveness to determine their further participation in the Sites Reservoir Project.

FINANCIAL CONSIDERATIONS

Sites Reservoir Project 2019 planning costs would be paid for by contributions from participating agencies and money made available under State Proposition 1 Grant and federal WIIN Act. Under the 2019 Participation Agreement, a maximum charge of $60 per acre-foot of Class 1 participation rights will be required. Those entities that were previously assigned Class 2 participation rights may convert these to Class 1 rights by making a catchup payment of $24.25 per acre-foot. As shown on the following table, Staff recommends conversion of the SCV Water's Class 2 rights to Class 1 and moving forward in 2019 with 5,000 acre-feet of Class 1 participation rights for a total cost of $351,289. Sufficient funds were included in SCV Water's FY 2018/19 Capital Budget to cover this anticipated expenditure.

	Quantity (AF)	Unit Price ($/AF)	Cost
Catchup Payment to Convert Previous Class 2 to Class 1 Rights	2,115	$24.25	$51,289
2019 Class 1 Rights	5,000	$60.00	$300,000
2019 Total Costs			$351,289

RECOMMENDATION

That the Water Resources and Watershed Committee recommend that the Board authorize the General Manager to execute the Sites Reservoir 2019 Participation Agreement.

DSM

MGS

1.8 MAF Sites Reservoir Project

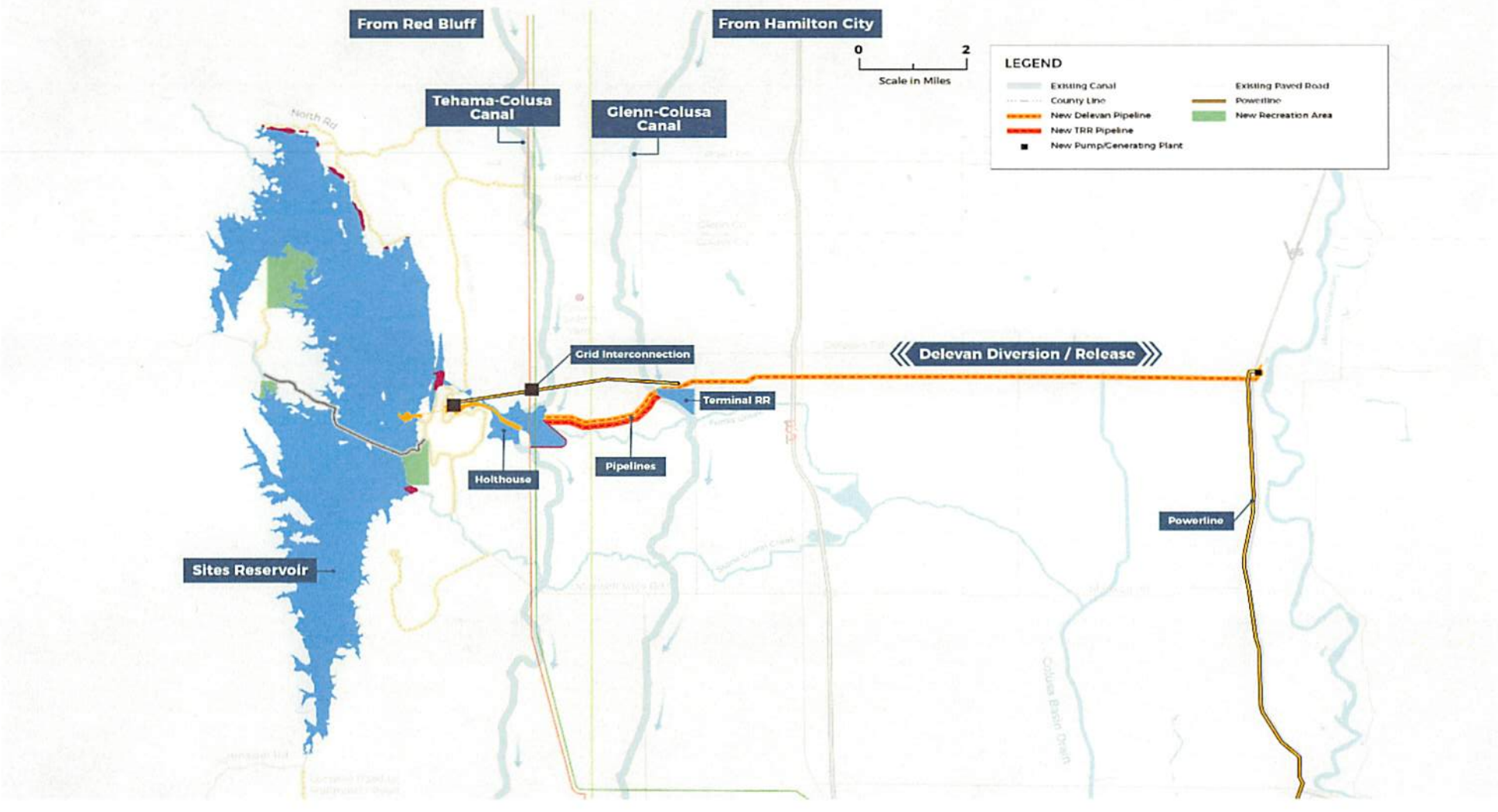

FIGURE 1

FIGURE 2

EXHIBIT A

PROJECT AGREEMENT MEMBERS

Participant	Participation (Annualized Acre-Foot) Preliminary	Percent
American Canyon, City of	~4,000	1.7%
Antelope Valley-East Kern Water Agency	~500	0.2%
Carter Mutual Water Company ‡	~500	0.2%
Coachella Valley Water District	~10,000	4.3%
Colusa County	~10,000	4.3%
Colusa County Water District	~13,100	5.6%
Desert Water Agency	~6,500	2.8%
Glenn-Colusa Irrigation District	~5,000	2.1%
Metropolitan Water District of S. CA	~50,000	21.4%
Pacific Resources Mutual Water Company ‡	~20,000	8.5%
Reclamation District 108	~5,000	2.1%
San Bernardino Valley Municipal Water District	~21,400	9.1%
San Gorgonio Pass Water Agency	~14,000	6.0%
Santa Clara Valley Water District	24,000	10.3%
Santa Clarita Valley Water Agency	~5,000	2.1%
TC-4: Cortina Water District	~300	0.1%
TC-4: Davis Water District	~2,000	0.9%
TC-4: Dunnigan Water District	~2,774	1.2%
TC-4: LaGrande Water District	~1,000	0.4%
Westside Water District	~15,000	6.4%
Wheeler Ridge-Maricopa Water Storage District	14,000	6.0%
Zone 7 Water Agency	~10,000	4.3%
Potential new participants	TBD	%
Total:	**234,074**	**100.0%**

Participation Percentages exclude State of California and United States Bureau of Reclamation share of the Project.

NOTE: Any annualized amounts listed for Phase 2 are preliminary and are based on best estimates received after participants' respective review of the draft financing plan and draft Phase 2 Reservoir Project Agreement. These amounts do not represent the results of any action having been taken by the participants' respective governing body to formally execute the Phase 2 Reservoir Project Agreements. Final participation amounts will be established after interim financing terms and conditions have been provided and incorporated into the final Phase 2 Reservoir Project Agreement.

‡ Denotes a non-public agency. Refer to California Corporations Code Section 14300 et. seq. with additional requirements provided in both the Public Utilities Code and Water Code.

ITEM NO.
5

COMMITTEE MEMORANDUM

DATE: January 2, 2019

TO: Water Resources and Watershed Committee

FROM: Dirk Marks
Director of Water Resources

SUBJECT: Recommend Approval of a Resolution Authorizing the General Manager to Enter into Contracts for (1) Stakeholder Communication and Engagement Services, and (2) Engineering and Hydrogeology Services for Development of a Groundwater Sustainability Plan on Behalf of the Santa Clarita Valley Groundwater Sustainability Agency (SCV-GSA)

SUMMARY

SCV Water provides administrative and technical services to the Santa Clarita Valley Groundwater Sustainability Agency (SCV-GSA) via an administrative services agreement (Agreement). This Agreement provides for SCV Water to enter into consultant contracts on behalf of the SCV-GSA to develop the state-required Groundwater Sustainability Plan (GSP).

After issuing requests for proposals (RFPs) and evaluating those proposals, a multi-agency work group recommends SCV Water award: 1) the Stakeholder Communication and Engagement Services contract to CV Strategies, and 2) Professional Engineering and Hydrogeology Services to GSI Water Solutions (GSI) to complete the state required GSP development.

DISCUSSION

Development of the GSP for Upper Santa Clara River Valley East Subbasin is required by the Sustainable Groundwater Management Act (SGMA) and must be completed no later than January 31, 2022. As part of SCV Water's administrative agreement with the SCV-GSA, it has developed a multi-year budget and work plan for SCV-GSA's consideration at its January 7, 2019 Board meeting. The budget and work plan are summarized in attached Tables 1, 2 and 3. While some initial tasks have been completed, the bulk of work remains and will require retaining professional services to facilitate stakeholder communication and perform professional and technical work to complete the GSP.

SGMA requires robust stakeholder communication and engagement to ensure adequate state-required public participation and engagement takes place. Staff anticipates public interest as was demonstrated by the attendance at GSA formation meetings. Also discussed was formation of a stakeholder advisory committee. A detailed discussion of the needed stakeholder outreach efforts can be found at the State's Best Management Practices for Stakeholder Communication and Engagement at:

https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Groundwater-Management/Sustainable-Groundwater-Management/Best-Management-Practices-and-Guidance-Documents/Files/Guidance-Document-for-Groundwater-Sustainability-Plan---Stakeholder-Communication-and-Engagement.pdf

Furthermore, creation of a GSP requires significant technical work. Specifically, it requires adherence to the state's GSP regulations which are summarized on Table 2. The full text GSP regulations may be accessed at: https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Groundwater-Management/Sustainable-Groundwater-Management/Groundwater-Sustainability-Plans/Files/GSP/Final-GSP-Emergency-Regulations.pdf

The historic management of groundwater in the Santa Clarita Valley provides a good foundation from which to work. Richard C. Slade and Associates completed reports assessing hydrogeological conditions in 1986 and 2001. Development of a groundwater model and operating plan was completed in 2004 by CH2M Hill and updated in 2009 by GSI. Additional work has been performed relating to groundwater contamination from the Whittaker-Bermite site. Nevertheless, significant technical work remains to update and expand on past work as well as meet new requirements under SGMA.

Based on the Department of Water Resources' guidelines, staff prepared and advertised two RFPs. Upon receipt of proposals, staff convened the GSA Work Group[1] to evaluate proposals, interview firms, negotiate and reach consensus on consultant selection. The initial and final proposal prices are shown in the tables below.

Stakeholder Communication and Engagement Services Proposals	Proposing Firm's Location	Proposal Fee as Submitted	Final Proposal Fee
The FRW Company	Pasadena, CA	$135,000	$135,000
CV Strategies	Palm Desert, CA	$150,000	$150,000
Dudek	Encinitas, CA	$156,282	$156,282

Engineering and Hydrogeology Services Proposals	Proposing Firm's Location	Proposal Fee as Submitted	Final Proposal Fee
Advisian	City of Los Angeles	$828,787	$987,998 [a]
GSI	Santa Barbara, CA	$1,536,500	$1,251,550[b]

[a] reflects correction of error in proposal budget
[b] reflects negotiations

[1] GSA Work Group is composed of staff from each SCV-GSA member agency.

Consistent with GSA Work Group consensus, SCV Water staff recommends:

- CV Strategies be selected for Professional Stakeholder Communication and Engagement. CV Strategies has a proven track record of success with stakeholder engagement. The CV Strategies proposal reflects a deep knowledge of general facilitation and outreach best practices as well as specific knowledge of the stakeholders in the Santa Clarita Valley. Their client list includes dozens of water agencies. The CV Strategies proposal fee is $150,000. A breakdown of costs for anticipated tasks are provided on Table 4 Professional Stakeholder Communication and Engagement Outline of Proposed Work.

- GSI Water Solutions be selected for Professional Engineering/Hydrogeology Services. The proposal represents a carefully assembled team with strong knowledge and experience in SGMA and the SCV-GSA's groundwater basin. GSI's team members include: an Assistant Project Manager who lives locally and works for GHD (a professional services firm), Luhdorff and Scalmanini Consulting Engineers, Richard C. Slade and Associates Consulting Groundwater Geologists, Environmental Science Associates, Kennedy/Jenks and others. In addition to the strength of the team, the proposal reflects a necessary level of thought, analysis and thorough understanding. The initial proposal fee was approximately $1.54M, but upon further discussions and negotiations it has been reduced to $1,251,550. A breakdown of costs for anticipated tasks are provided on Table 5 Professional Engineering/Hydrogeology Outline of Proposed Work. Staff believes further reductions in the consultant's work effort may be possible depending on a number of factors including extent that additional records needed to be incorporated into the data base and the extent to which these changes require modification to the conceptual and numeric groundwater models. Table 5 also describes efforts staff has identified to activity manage the cost of consultant's work efforts.

While staff will closely manage consultants work activities, significant uncertainties exist that may have a material impact on the cost of completing the GSP. Staff has identified several areas that are difficult to quantify at this time which may result in potential changes in scope as shown in the table below.

Area of Uncertainty	Potential Impact on Scope of Work
Stakeholders raise legitimate complex issues that require additional stakeholder meetings and technical analysis	• Additional stakeholder meeting • Additional modeling • Additional Technical Advisory Group Meetings
Additional information required to evaluate undesirable results and sustainability criteria related to groundwater dependent eco-systems	• Additional Technical Advisory Group Meetings • Additional modeling
Additional model calibration needed	• Additional modeling • Additional groundwater model peer review group meetings
Prolonged negotiations with adjoining GSA	• Additional modeling

Therefore, staff recommends incorporating a 15% contingency into the future budgets. Regardless of inclusion of any contingency into future budgets, any increases in the consultant contract amounts would be presented to the Board as provide in SCV Water policies.

FINANCIAL CONSIDERATIONS

The total estimated costs (including contingency) for these two contracts in FY 2018/19 through 21/22 are shown in the following table:

Estimated Consultant Costs for CV Strategies and GSI Water Solutions					
	FY 18/19	**FY 19/20**	**FY 20/21**	**FY 21/22**	**Total**
GSI Water Solutions	$ 150,000	$ 438,000	$ 488,550	$ 175,000	$ 1,251,550
CV Strategies	$ 30,000	$ 40,000	$ 40,000	$ 40,000	$ 150,000
Subtotal	**$ 180,000**	**$ 478,000**	**$ 528,550**	**$ 215,000**	**$ 1,401,550**
15% Contingency	$ 27,000	$ 71,700	$ 79,283	$ 32,250	$ 210,233
Total	**$ 207,000**	**$ 549,700**	**$ 607,833**	**$ 247,250**	**$ 1,611,783**

This work is funded by wholesale water rates from the General Fund/Operating Budget. Additional funding sources from mandatory SCV-GSA member agency contributions ($20,000/member/year) and up to $416,106 in grant funding (anticipated in FY 2020/21 through FY 2022/23) will offset consultant services fees as illustrated in Table 3.

RECOMMENDATIONS

The Water Resources and Watershed Committee recommends that the Board of Directors approve the attached resolution awarding professional services time and expenses contracts not to exceed the final proposal fee to CV Strategies and GSI Water Solutions.

RDV

Attachments

Tables 1, 2, and 3, Multi-year proposed work plan and budget for SCV-GSA
Table 4, Professional Stakeholder Communication and Engagement Outline of Proposed Work
Table 5, Professional Engineering/Hydrogeology Outline of Proposed Work
Resolution

Table 1. Estimated SCV Water Staff Costs + Ad Buy

	FY 18/19	FY 19/20	FY 20/21	FY 21/22	TOTAL
SCV Water Administrative Support	$71,500	$78,100	$78,100	$78,100	$305,800
SCV Water Consultant Management & Technical Services	$70,840	$169,620	$169,620	$127,215	$537,295
SCV Water Support with Public Outreach	$28,600	$28,600	$28,600	$21,450	$107,250
Ad Buys for Outreach	$5,000	$10,000	$10,000	$10,000	$35,000
Total SCV Water Staff Cost	**$175,940**	**$286,320**	**$286,320**	**$236,765**	**$985,345**

Table 2. Estimated Consultant Costs

	FY 18/19	FY 19/20	FY 20/21	FY 21/22	TOTAL
Consultant Cost Estimate for GSP Development					
Groundwater Model Readiness - Additional Calibration of Modflow USG	$35,000				$35,000
RFP Development - Status of Groundwater Model Memo	$5,800				$5,800
RFP Development – Consultant Assistance in Drafting RFP's and Reviewing Proposals	$20,000				$20,000
GSP Technical Consultant	$150,000	$438,000	$488,550	$175,000	$1,251,550
GSP Stakeholder Engagement Consultant	$30,000	$40,000	$40,000	$40,000	$150,000
GSP Grant Administration Consultant	$5,000	$10,000	$8,807	$5,000	$28,807
Peer Review Group to Evaluate Modflow USG for Suitability	$25,000	$75,000			$100,000
Subtotal	**$270,800**	**$563,000**	**$537,357**	**$220,000**	**$1,591,157**
Consultant Cost Estimate for Contingency Fund					
15% Contingency	$27,000	$71,700	$79,283	$32,250	$210,233
Subtotal	**$27,000**	**$71,700**	**$79,283**	**$32,250**	**$210,233**
Total Consultant Cost Estimate for Technical Development	**$297,800**	**$634,700**	**$616,640**	**$252,250**	**$1,801,390**
Consultant Cost Estimate for Administration					
Grant Application Cost					
Pre GSP Adoption Rate Study for Fee Collection		$50,000			$50,000
Rate Study for Post GSP Adoption Fee Collection			$75,000		$75,000
Agency Insurance through JPIA	$2,500	$2,500	$2,500	$2,500	$10,000
Legal	$15,000	$15,000	$15,000	$15,000	$60,000
Annual Audit Costs	$10,000	$10,000	$10,000	$10,000	$40,000
Subtotal	**$27,500**	**$77,500**	**$102,500**	**$27,500**	**$235,000**
Consultant Cost Estimate for Post GSP Adoption Activities					
Required Annual Report, Monitoring, Reporting, Database Maintenance				$25,000	$25,000
Project Development (CEQA, Design, Construction, O&M)					
Subtotal				**$25,000**	**$25,000**
Total Consultant Cost Estimate All Categories	**$325,300**	**$712,200**	**$719,140**	**$304,750**	**$2,061,390**

Table 3. Budget Summary

Budget Summary	FY 18/19	FY 19/20	FY 20/21	FY 21/22	TOTAL
Table 1. Total Estimated SCV Water Staff	**$175,940**	**$286,320**	**$286,320**	**$236,765**	**$985,345**
Table 2. Total Estimated Consultant Services*	**$325,300**	**$712,200**	**$719,140**	**$304,750**	**$2,061,390**
Total Estimated Staff and Consultant	**$501,240**	**$998,520**	**$1,005,460**	**$541,515**	**$3,046,735**
Anticipated Revenue					
Estimated Grant Reimbursement			$138,702	$138,702	$277,404
Member Agency Contributions	$80,000	$80,000	$80,000	$80,000	$320,000
Additional Revenue Required*	$421,240	$918,520	$786,758	$322,813	$2,449,331
Total Revenue for GSP Development	**$501,240**	**$998,520**	**$1,005,460**	**$541,515**	**$3,046,735**
Balance					

*SCV Water may, in its discretion, advance these funds, or provide a voluntary non-reimbursable Member contribution

Table 4, Professional Stakeholder Communication and Engagement Outline of Proposed Work		
Proposal Task, **Fee,** **Description,** **Purpose**	**Current State at SCV Water**	**Description of GSP Regulation Requirements in General** **Key GSP Regulations,** **State Provided BMPs,** **State Guidance Documents,** **Required by Grant**
Task 1: Project Management of Stakeholder Engagement Plan, $19,775 Subtasks: 1. Kickoff Meeting 2. Monthly Meetings/Updates 3. Quarterly Meetings This task serves to identify goals and timelines and will include early work with Professional Engineering/Hydrogeology consultant, and Grant Administration consultant, on an overall project work plan and Gantt chart. Following this, monthly, biweekly and quarterly meetings will be held throughout the campaign to ensure staff and consultants are on the same page and remain informed.	Staff will oversee development of the project work plan and Gantt chart. Thereafter, staff will engage with the Consultant and coordinate messaging for the SCV-GSA with SCV Water.	Guidance Document for Stakeholder Communication and Engagement Work will support proper invoicing as required by the Grant Agreement.

Table 4, Professional Stakeholder Communication and Engagement Outline of Proposed Work		
Proposal Task, **Fee,** **Description,** **Purpose**	**Current State at SCV Water**	**Description of GSP Regulation Requirements in General** **Key GSP Regulations,** **State Provided BMPs,** **State Guidance Documents,** **Required by Grant**
Task 2: Develop Stakeholder Communication and Engagement Plan, $19,000 Subtasks: 1. Interested Parties List 2. Stakeholder Surveys and Mapping 3. Timeline 4. Needs and Goals Identification 5. Strategy Development 6. Stakeholder Advisory Committee 7. Stakeholder Workshops 8. Stakeholder Identification 9. Communications Review 10. Key Messages 11. Stakeholder Analysis 12. Message Refinement 13. Talking Points 14. Board Training 15. Branding 16. Outreach Support 17. 'Lay of Land' Overview 18. Stakeholder Engagement Plan This Task serves to develop communication materials, with some early public engagement, and provide a locally relevant and implementable plan consistent with the BMPs. The plan will seek to educate the public about SGMA, encourage public participation in GSP development, inform and engage stakeholders, and deliver relevant messaging. Starting with a deep-dive discussion during the kick-off meeting (Task 1) a more detailed plan and blocking chart with specific key messages, deliverables	Staff will provide its existing interested parties list. Through outreach efforts for the SB634 merger, staff has established multiple communication channels and a diverse stakeholder list upon which to build. SCV Staff has a firm understanding of impacted parties and key stakeholders. Through the creation of the new agency and the dissolution process, SCV Water staff has held numerous workshops and community meetings, identifying successful communications strategies and vehicles.	Article 5 Plan Contents, Subarticle 1 Administrative Information, § 354.10 Notice and Communication The GSP regulations require robust notice and communication with stakeholders. The GSP must include a detailed description of Notice and Communication.

Table 4, Professional Stakeholder Communication and Engagement Outline of Proposed Work		
Proposal Task, **Fee,** **Description,** **Purpose**	**Current State at SCV Water**	**Description of GSP Regulation Requirements in General** **Key GSP Regulations,** **State Provided BMPs,** **State Guidance Documents,** **Required by Grant**
and deadlines will be created. A Board Training session will be held toward the beginning of the process with updated collateral and information provided through the process at key milestones.		

Table 4, Professional Stakeholder Communication and Engagement Outline of Proposed Work		
Proposal Task, **Fee,** **Description,** **Purpose**	**Current State at SCV Water**	**Description of GSP Regulation Requirements in General** **Key GSP Regulations,** **State Provided BMPs,** **State Guidance Documents,** **Required by Grant**
Task 3: Implement Communication and Engagement Plan, $89,000 1. Meeting Notifications 2. Webpage Creation 3. Website Content 4. Media List 5. Press Releases 6. Media Relations 7. Op-Eds/Letters to the Editor 8. Advertising 9. Presentation Materials 10. Meeting Organization 11. Comment Cards/Sign-In Sheets 12. Issues Assessment 13. Translation 14. Social Media 15. Email Communications 16. Newsletter 17. Collateral 18. Public Notices This task implements the plan developed in Task 2. The implementation of the plan will engage diverse groups of interested parties and stakeholders and promote informed community feedback, increase understanding of impacts using facts and relevant information, employ multiple outreach methods, hold meetings at venues that encourage broad participation, and coordinate with local agencies. It serves to help GSP development by creating multiple ways for stakeholders to be engaged. It will also demonstrate to the Department of Water Resources that the SCV-GSA followed a robust process to engage stakeholders and obtain their input.	Staff anticipates significant interaction with consultant to use existing SCV Water pathways for communication when appropriate. SCV Water has certain processes and tools already in place to assist with this effort, including distribution and posting of press releases and public notices. Staff also has the ability to update the SCV-GSA website at www.scvgsa.org as needed. Efforts will be made to schedule multiple meetings the same day when feasible.	Article 5 Plan Contents, Subarticle 1 Administrative Information, § 354.10 Notice and Communication The GSP regulations require robust notice and communication with stakeholders. The GSP must include a detailed description of Notice and Communication including: 1. An explanation of the SCV-GSA decision-making process. 2. Identification of opportunities for public engagement and a discussion of how public input and response will be used. 3. A description of how the SCV-GSA encourages the active involvement of diverse social, cultural, and economic elements of the population within the basin. 4. The method the SCV-GSA shall follow to inform the public about progress implementing the Plan, including the status of projects and actions.

Table 4, Professional Stakeholder Communication and Engagement Outline of Proposed Work		
Proposal Task, **Fee,** **Description,** **Purpose**	**Current State at SCV Water**	**Description of GSP Regulation Requirements in General** **Key GSP Regulations,** **State Provided BMPs,** **State Guidance Documents,** **Required by Grant**
Using the plan created in Task 2, CV Strategies will prepare all of the deliverables identified, building on the key messages and strategies identified. This includes adding pages to the current SCV-GSA website, creating a media buy, and developing all community meeting and engagement ads to ensure the public is involved and informed throughout the process. CV Strategies proposal includes (up to) quarterly stakeholder workshops, up to six advisory committee meetings, attendance at scheduled board meetings, and monthly status meetings with staff. All community meetings, staff meetings and advisory committee meetings will be well documented and reported to staff for record-keeping and compliance purposes.		

Table 4, Professional Stakeholder Communication and Engagement Outline of Proposed Work		
Proposal Task, **Fee,** **Description,** **Purpose**	**Current State at SCV Water**	**Description of GSP Regulation Requirements in General** **Key GSP Regulations,** **State Provided BMPs,** **State Guidance Documents,** **Required by Grant**
Task 4: Grant Assistance, $10,000 1. Budget Documentation 2. Grant Administration Responses 3. Design Standards This work serves to fulfil requirements of the Grant Agreement.	SCV-Water is the grantee on behalf of the SCV GSA.	This work is required as part of the Grant Agreement.

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Table 5, Professional Engineering/Hydrogeology Outline of Proposed Work

Proposal Task, **Fee,** **Description,** **Purpose**	**Current State at SCV Water**	**Description of GSP Regulation Requirements in General,** **Key GSP Regulations,** **State Provided Best Management Practices,** **State Guidance Documents.,** **Required by Grant**
Task 1: Project Management, Work Plan, and Meetings, $232,810 1A. Project Management (Monthly invoices, budget updates, and monthly progress reports) 1B. Work Plan (Early development of a work plan in coordination with the Stakeholder Communication and Engagement consultant, and Grant Administration consultant, develop Gantt chart) 1C. Meetings (4 Workshops, 4 TAG meetings, Attendance at Quarterly Board meetings, technical memorandums, meeting minutes) Task 1A covers monthly conference calls, four workshops along-side the Stakeholder Communication and Engagement Consultant, four Technical Advisory Group Meetings, and for the next three years-quarterly SCV GSA Board meetings. This work serves to ensure proper administration and helps ensure completion of the GSP as required by regulation. Task 1B serves to calibrate the project team early in the process and develop an accompanying work plan and Gantt chart to keep the project components focused and coordinated. Task 1C serves to support project management in general, and helps meet certain GSP regulations regarding Stakeholder Engagement (i.e. workshops and review of certain technical memorandum). The Technical memorandums allow for incremental review and approval of key work, prior to commencing drafting the full GSP. The approach is intended to provide an opportunity for review and consensus on key technical details prior to including as part of the first full draft of the GSP.	Staff anticipates significant interaction with consultant management team in order to assure compliance with SGMA and timely production of GSP. Further, staff will integrate GSP work efforts with the other work efforts such as preparation of the 2020 UWMP, SNMP compliance work, Watershed Initiative negotiations (including negotiation with downstream interests), capital improvements such as Saugus Formation replacement wells, recycled water system expansion and water spreading assessments in Castaic Creek and the east end of the Santa Clara River.	The GSP Regulations require Completion of the GSP on time, and Stakeholder Engagement. Article 4 Procedures, § 353.6. Initial Notification Article 5 Plan Contents, § 354.10. Notice and Communication Guidance Document for Stakeholder Communication and Engagement Work will support proper invoicing as required by the Grant Agreement.

Table 5, Professional Engineering/Hydrogeology Outline of Proposed Work

Proposal Task, **Fee,** **Description,** **Purpose**	**Current State at SCV Water**	**Description of GSP Regulation Requirements in General,** **Key GSP Regulations,** **State Provided Best Management Practices,** **State Guidance Documents.,** **Required by Grant**
Task 2: Data Review and Assessment, $259,399 2A. Compilation of Existing Data (Identify relevant data from past work, compile, check quality of new data, prepare inventory of required data) 2B. Review of Available Well Log Data (data for wells exists in more than one database, new data from DWR has been obtained and must be reviewed, a GIS database will be created that includes well construction date, depth, screen intervals, lithology, and approximate static water level at time of construction) 2C. Data Management System (DMS) (DMS will be configured for efficiency and regulatory requirements, developed, and populated. Coordination with SCV Water required) 2D. Assessment of Existing Data Gaps and Data Gap Analysis (assess data, identify and prioritize data gaps, develop action plan to fill data gaps) 2E. Monitoring Program Evaluation and development of SGMA-Required monitoring program (SCV Water uses consultant services to administer two monitoring programs, with a third Salt and Nutrient Monitoring Program in the future) 2F. Evaluation and Development of SGMA-Required Sampling and Analysis Plan Task 2A provides for systematic early review of existing data from multiple databases and new data sources and queuing up relevant data for inclusion into a new single database. Task 2B serves to provide sufficient due diligence with GSP development. The work represents a near term effort that reviews, prioritizes, and includes relevant well records into the DMS. Data will then be prioritized for incorporation into a number of key efforts, such as that relating to development of the hydrogeologic conceptual model, verification of groundwater flowmodel lithology. Such work may also create an opportunity for stakeholders to assist the GSA in describing well data if needed. Task 2C provides for the state-required DMS development. The initial structure of the DMS will be the existing Access Database operated by a consultant to SCV	Currently, staff annually provides information (i.e. groundwater elevation, extraction and water quality) to consultants for inclusion in SCV Annual Water Report and CASGEM report. Much of this information is contained in an Access Data Base. Additionally, some well drilling logs have been compiled when the historic conceptual model and numeric model were created. Staff anticipates exercising significant oversight on Task 2 with the objective of likely reducing this work effort. Currently, staff is screening the 800 well records contained in DWR's basin records for possible inclusion in the GSP's Data Management System. Water Resources and IT department staff have met to begin developing standard monitoring and sampling and analysis procedures as well as the DMS configuration in to the SCV Water's Microsoft SQL data management system.	The GSP regulations require an analysis of existing data, data gap analyses and action plans, creation of a Data Management System that is capable of storing and reporting information to the Department of Water Resources relevant to the development or implementation of the Plan and monitoring of the basin, and a basin monitoring plan and sampling and analysis plan. Article 2 Definitions, § 351 Definitions (l) "Data gap" refers to a lack of information that significantly affects the understanding of the basin setting or evaluation of the efficacy of Plan implementation, and could limit the ability to assess whether a basin is being sustainably managed. Article 3 Technical and Reporting Standards, § 352.6. Data Management System Article 5 Plan Contents, Subarticle 2 Basin Setting, § 354.12, Introduction to Basin Setting Article 5 Plan Contents, Subarticle 4 Monitoring Networks, § 354.40. Reporting Monitoring Data to the Department BMP 1.Monitoring Protocols, Standards, and Sites BMP 2.Monitoring Networks and Identification of Data Gaps Work under the grant is required. Grant Agreement includes funding for development of the DMS.

Table 5, Professional Engineering/Hydrogeology Outline of Proposed Work		
Proposal Task, Fee, Description, Purpose	**Current State at SCV Water**	**Description of GSP Regulation Requirements in General, Key GSP Regulations, State Provided Best Management Practices, State Guidance Documents., Required by Grant**
Water. Coordination with SCV Water staff will take place, we anticipate that the Access Database will be converted to a Microsoft SQL server system (allowing more security, functionality, and online access) and eventually hosted by SCV Water. The DMS will be configured to maintain separateness between the SCV-GSA and SCV Water. Task 2D provides for the state-required data gap analysis. Data must be assembled, reviewed, evaluated and data gaps identified and described. Multiple sections of the GSP, such as Basin Setting, Hydrogeologic Conceptual Model, Water Budget, Sustainability Criteria, and Monitoring Networks will be supported by this process. Task 2E provides for the state-required basin-wide monitoring program. Development of the program will require incorporation of SCV Water standard operating procedures. Task 2F provides for development of the state-required Sampling and Analysis plan.		

Table 5, Professional Engineering/Hydrogeology Outline of Proposed Work

Proposal Task, **Fee,** **Description,** **Purpose**	**Current State at SCV Water**	**Description of GSP Regulation Requirements in General,** **Key GSP Regulations,** **State Provided Best Management Practices,** **State Guidance Documents.,** **Required by Grant**
Task 3: Groundwater Model Update and Readiness, $64,601 3A. Data Acquisition (necessary for updating model calibration to include 2016 and 2017 hydrology and other records such as groundwater extraction) 3B. Calibration Assessment and Refinement (Task 3A data used to construct updated model run for new period. Calibration quality evaluated using past accepted approaches. Modest calibration effort is scoped. If Consultant feels additional calibration is warranted, it will advise SCV Water.) 3C. Updated Model Documentation (Work under Tasks 3A and 3B will be documented. Model documentation report will be created. This documentation report will replace the Agencies 2004 documentation report.) Task 3 work will be coordinated with Task 6 work. --- Task 3A serves to bring the groundwater model from a 2015 update to a 2017 update. Task 3B serves to prepare the model for use in GSP development through completing any modest calibration. The consultant will advise SCV if it feels additional out of scope calibration work is necessary. Task 3C serves to provide an updated model documentation report, which is also a deliverable for the state grant agreement. The work will also serve to prepare the model so it is compliant with Section 352.4(f) of the GSP regulations.	In 2018 staff oversaw switching of the numeric modeling platform from MicroFEM to open source Modflow USG. Limited budget is included in this item for modest additional calibration efforts that may come out of updated hydrology, data base information, Task 2, and an updated hydrogeologic conceptual model Task 6. Related but outside the scope of work of this proposal is the review of this new model by a peer review panel. Recommendations from that panel may require additional work in this area.	After the effective date of GSP regulations, newly developed groundwater flowmodels must be open source. DWR is authorized by regulation to obtain model input and output files in the event it chooses to evaluate the model directly. SGMA anticipates Groundwater Models inform many parts of the GSP including: water budgets, sustainable management criteria, supporting potential projects and management actions, and supporting monitoring programs. Article 3 Technical and Reporting Standards, § 352.4. Data and Reporting Standards, sub sections f and g. BMP-5. Modeling. Work under the grant is required. Grant Agreement includes funding for updating the model hydrology through 2017, and development of a model documentation report.

Table 5, Professional Engineering/Hydrogeology Outline of Proposed Work

Proposal Task, **Fee,** **Description,** **Purpose**	**Current State at SCV Water**	**Description of GSP Regulation Requirements in General,** **Key GSP Regulations,** **State Provided Best Management Practices,** **State Guidance Documents.,** **Required by Grant**
Task 4: Groundwater/Surface Water Interconnection and Sustainability Criteria for GDEs, $234,240 4A. Identify and Catalog GDEs (Existing data will be utilized. Areas where there is a connection between groundwater and surface water and where sensitive vegetation and listed species are present will be identified and compiled in the database for display and analysis in maps and tables.) 4B. Evaluate Groundwater and Groundwater/Surface Water Connectivity to GDEs within the GSA Boundary (Exiting data will be utilized to identify groundwater/surface water connections and the locations of gaining and losing reaches. Nearby wells that have a long record of water level data will be added to the database and plotted on a map. Up to six piezometers will be installed at key locations, surveyed and monitored Up to 40 temperature probes will be installed at key locations, surveyed and monitored Modflow USG and the existing LSPC/WMMS watershed model developed by Los Angeles County, and piezometer and temperature data, will be used to estimate the volume of water entering or leaving the river system. The analysis will also inform the GSPs required monitoring plan) 4C. Development of Sustainable Management Criteria for GDEs (for GDEs relying on *root zone groundwater*, groundwater depth thresholds will be developed for specific locations. Ranges in expected groundwater elevations necessary to support GDEs will be developed as necessary. An approach to develop sustainability criteria will be developed. As a starting point nearby historic groundwater elevation and river flow data over time will be used to identify the range, and levels that occurred in dry periods will aid in the development of sustainability criteria) (For GDEs reliant on *groundwater discharge*, surface flow and water quality criteria will be developed to maintain the target ecological value. Criteria will include thresholds for maintenance such as water depth, velocity, water quality, water temperature, and seasonal variability. The criteria will encompass minimum dry season flows and wet season flows, as well as dry year, wet year, and multiple dry year surface water flow contributions at specific locations. This	Staff will coordinate Watershed Initiative activities with this task to assure continuity. Staff's ongoing discussions with NGOs regarding vegetation mapping using LIDAR as well as SCV Sanitation District efforts related to development of additional recycled water will inform staff oversight of this task. Additionally, Staff noted that surveying the location of the Piezometers and temperature probes could be more cost effectively accomplished by in-house staff and therefore that service and the associated costs has been removed from the scope of work.	Article 5 Plan Contents, Subarticle 2 Basin Setting, 354.16. Groundwater Conditions. Sub section f requires identification of interconnected surface water systems as well as an estimate of the quantity and timing of depletion of those systems. Subsection g requires identification of groundwater dependent ecosystems. This work also supports work required as Task 2 regarding data gaps and monitoring. Article 5 Plan Contents, Subarticle 3. Sustainable Management Criteria Work under the grant is required. Grant agreement includes funding for evaluating GDEs, installing instrumentation and developing sustainability criteria.

Table 5, Professional Engineering/Hydrogeology Outline of Proposed Work		
Proposal Task, **Fee,** **Description,** **Purpose**	**Current State at SCV Water**	**Description of GSP Regulation Requirements in General,** **Key GSP Regulations,** **State Provided Best Management Practices,** **State Guidance Documents.,** **Required by Grant**
information will help inform minimum sustainability thresholds or other measures to support the GDEs.) These tasks serve several state-required work efforts relating identification of groundwater/surface water interconnection, identification of GDEs, assessment of the volume and rate of exchange of groundwater and surface water, and development of associated sustainability criteria. The work also helps satisfy the requirements for stakeholder communication and engagement. As part of the data gap analysis (Task 2) additional instrumentation added in this task is made part of Task 2's data gap analysis, monitoring plan, and sampling and analysis plan.		

Table 5, Professional Engineering/Hydrogeology Outline of Proposed Work

Proposal Task, **Fee,** **Description,** **Purpose**	**Current State at SCV Water**	**Description of GSP Regulation Requirements in General,** **Key GSP Regulations,** **State Provided Best Management Practices,** **State Guidance Documents.,** **Required by Grant**
Task 5: Water Budget Development, $113,500 5A. Historical Water Budget (to meet the minimum 10 year period in the GSP regulations, this budget is anticipated to extend from the early 1980s to 2011. This period includes dry, normal, and wet years and includes the historical range of local water demand and imported water supply availability trends observed in the basin.) 5B. Current Water Budget (this budget is anticipated to span water years 2012 through 2017 and include an accounting of groundwater inflows and outflows and exchanges with the river. The current water budget also reflects the most recent water demand and imported water supply availability. With the exception of 2017, each of the years had below average rainfall, with 2012 being the driest.) 5C. Future Water Budgets under the UWMP (a 50-year forward looking time period will be evaluated, with and without Climate Change) 5D. Basin Yield (analysis is informed by water budgets, and basin yield is defined as inflows balanced with outflows on a long term basis.) (Basin yield is not the same as sustainable yield defined by SGMA. Sustainable yield is the absence of the six undesirable results. Sustainable yield per SGMA is anticipated to be less than basin yield since it takes into account the state's six sustainability indicators) 5E. Water Budget Documentation (work conducted in Tasks 5A-5D will be documented in a technical memo.) Each of these work tasks serve to create a water budget that is fully compliant with the state-requirements. For example, the GSP regulations require development of water budgets to account for annual basin inflow and outflow under historical, current, and future conditions. The water budgets will be used to (1) estimate future supply, demand, and aquifer response to GSP implementation, and (2) identify uncertainties in the projected water budget components. The budgets will represent basin wide conditions and will meet the GSP regulatory requirements for water budget analysis and DWRs BMP document.	The existing Groundwater Operating Plan (GSI 2009) demonstrates the groundwater resources being operated within the sustainable yield of the basin. Modification of that operating criteria is anticipated in order to achieve SGMA compliance. Staff will coordinate Watershed Initiative work efforts to achieve a water balance consistent with SGMA.	The GSP regulations require a detailed water budget to provide an accounting and assessment of the total annual volume of groundwater and surface water entering and leaving the basin, including historical, current and projected water budget conditions, and the change in the volume of water stored. The water budget must consider climate change. Article 5 Plan Contents, Subarticle 2 Basin Setting, § 354.18. Water Budget Article 5 Plan Contents, Subarticle 3 Sustainable Management Criteria, § 354.30. Measurable Objectives Article 5 Plan Contents, Subarticle 4 Monitoring Networks, § 354.34. Monitoring Network Article 8. Interagency Agreements, § 357.4. Coordination Agreements BMP-4. Water Budget, State Climate Change Guidance Document Work under the grant is required. Grant work plan includes development of a water budget as described in the proposal.

Table 5, Professional Engineering/Hydrogeology Outline of Proposed Work		
Proposal Task, **Fee,** **Description,** **Purpose**	**Current State at SCV Water**	**Description of GSP Regulation Requirements in General,** **Key GSP Regulations,** **State Provided Best Management Practices,** **State Guidance Documents.,** **Required by Grant**
Groundwater budgets will be developed for the alluvial aquifer and Saugus Formation (separately and combined) by extracting information from ModflowUSG (Task 3). Surface water budgets will be developed from water use data, stream gage data, stream flow estimates on un-gaged tributary streams, and groundwater discharge estimates. Water use budgets will be developed from local records and forecasts of imported water. A workshop will be held for this item. This will help satisfy the requirements for stakeholder communication and engagement.		

Table 5, Professional Engineering/Hydrogeology Outline of Proposed Work

Proposal Task, **Fee,** **Description,** **Purpose**	**Current State at SCV Water**	**Description of GSP Regulation Requirements in General,** **Key GSP Regulations,** **State Provided Best Management Practices,** **State Guidance Documents.,** **Required by Grant**
Task 6: Hydrogeologic Conceptual Model, $90,000 This task does not contain subtasks. This task develops the state-required Hydrogeological Conceptual Model (HCM) through assembling and evaluating existing data on: the physical characteristics of the basin, recharge areas, geology, groundwater well locations, groundwater quality, groundwater extraction, locations of groundwater connection to surface water, inventory of GDEs, and other data.. An expanded description of the entire subbasin will be created. It will include written analysis of information described above and also include a scaled basin map and at 2 geologic cross sections. Work proposed will take advantaged of existing data and past studies, but compile in a unified state-required HCM. This task will not reinvent past work, but will build upon prior studies, including those made for the 2004 Final Report on Santa Clarita Valley Groundwater Model Construction and Calibration. Additional studies and data collection have taken place since the 2004 report, including that related to installation of additional production and monitoring wells, studies regarding surface water flow and quality conditions, and groundwater contamination investigations. --- The HCM is a state required item that serves as a communication tool for stakeholders and agencies, but also supports discussion in multiple sections of the GSP, including those for: sustainability indicators, potential for undesirable results, development of minimum thresholds, development of potential projects and management actions, monitoring protocols, monitoring networks, and strategies to evaluate the sustainability of the basin over time. A technical memorandum will be prepared first. It can be refined over time as new information, such as monitoring, field investigation, and numerical modeling data become available.	SCV Water predecessors have contracted with consultants, who as part of their work, prepared generalized cross sections. This work includes that from Slade 1986, 1988, 2002 as well as others. Further, as part of its 2004 work effort, CH2M Hill developed a conceptual model for the original MicroFEM numeric groundwater model. Information from the expanded Data Management System developed in Task 2 will inform the updating of the HCM as well as SGMA mandated expansion of a scaled map and basin wide geologic cross sections. Staff will review the extent of the necessary modifications to the HMC to determine if the budget can be decreased. Staff will monitor the development of the HCM and its suitability as a stakeholder communication tool. A potential need exists for the use of visualization software that would be beyond the scope of the contemplated work.	The required HCM is an integral part of a GSP and conveys understanding of the basin's physical characteristics related to regional hydrology, land use, geology and geologic structure, water quality, principal aquifers, and the principal aquitards. It provides context to develop and explain water budgets, set up numerical analyses, and is a critical tool for developing required monitoring networks. The HCM can be refined over time as new information, such as monitoring, field investigation, and numerical modeling data become available. Article 5 Plan Contents, Subarticle 2 Basin Setting, § 354.14. Hydrogeologic Conceptual Model BMP-3 Hydrogeologic Conceptual Model

Table 5, Professional Engineering/Hydrogeology Outline of Proposed Work

Proposal Task, **Fee,** **Description,** **Purpose**	**Current State at SCV Water**	**Description of GSP Regulation Requirements in General,** **Key GSP Regulations,** **State Provided Best Management Practices,** **State Guidance Documents.,** **Required by Grant**
Task 7: Development of Sustainability Criteria, $68,000 This task does not contain subtasks. This task is configured to develop sustainable management criteria for the GSP. It includes collaboration with the SCV-GSA in its stakeholder process and workshop activity. Sustainability criteria will identify: 1) minimum thresholds for each sustainability indicator, 2) undesirable results, 3) measurable objectives, and 4) interim milestones The criteria are configured to result in sustainability within 20 years. This work serves to develop the state-required sustainability criteria while working with the Stakeholder Communication and Engagement Consultant to document adequate stakeholder engagement. Technical work includes development of sustainable management criteria for each of the state's six sustainability criteria. One of the state's sustainability criteria is seawater intrusion. Seawater intrusion is not a factor in this basin, however the other five sustainability criteria will be evaluated. Because available data indicate there is no evidence that groundwater levels in the basin are experiencing significant or unreasonable declines, we anticipate significant focus on evaluating sustainability criteria for groundwater quality, and depletion of interconnected surface waters. The groundwater flowmodel will be used to identify periods when the groundwater operating plan coupled with reduced local recharge may create undesirable results, particularly for any depletion of interconnected surface water. The model will be used to identify circumstances and time periods for evaluation. Two workshops are planned. The first will introduce sustainability criteria, and the second will present the draft technical memorandum that describes the sustainability criteria. This will be in coordination with Stakeholder Communication and Engagement Consultant. This will help satisfy the requirements for stakeholder communication and engagement.	This is a critical task that staff will be managing quite closely. In particular the criteria for GDEs reflect the variability due to natural variations due to drought.	Development of Sustainable Management Criteria is a key required component of GSP development requiring significant technical work and adequate communication with stakeholders. Development of the criteria must take into account known data gaps. The criteria are configured to cause the basin to reach sustainability within the 20 year implementation horizon in the event it would otherwise not meet the criteria. Article 5 Plan Contents, Subarticle 3 Sustainable Management Criteria BMP-6 Sustainable Management Criteria

Table 5, Professional Engineering/Hydrogeology Outline of Proposed Work

Proposal Task, **Fee,** **Description,** **Purpose**	**Current State at SCV Water**	**Description of GSP Regulation Requirements in General,** **Key GSP Regulations,** **State Provided Best Management Practices,** **State Guidance Documents.,** **Required by Grant**
Task 8: Projects and Management Actions/Implementation Plan, $83,000 This task does not contain subtasks. This task develops and evaluates a broad range of water management projects and actions that will achieve the sustainability goals identified in Task 7. Task 8 includes a two phased approach. The first phase will identify and screen the range of water management actions and potential projects. The proposal assumes that no more than 15 projects/management actions will be screened at this phase. Screening criteria may include a project's effect on sustainability criteria, technical uncertainties, institutional feasibility, and groundwater management areas. The second phase will provide additional screening, and may include cost-effectiveness, quantifiable contribution to sustainability objectives, implementation complexity, schedule and uncertainty. The proposal assumes the final list will not exceed five priority projects considered for implementation in the GSP. As described above this task follows a logical process to identify and screen projects, resulting in a list of no more than five priority projects for implementation consideration in the GSP. The effort will include a workshop and help satisfy the requirements for stakeholder communication and engagement. Actions that address data gaps will also be developed in this task. The implementation plan will describe each proposed project and management action in detail, coordination requirements, cost, source(s) of funding, and implementation schedule.	SCV Water planning documents, such as the UWMP may refer to future project ideas, i.e. recycled water, groundwater recharge. Staff will be involved with the modification of planned projects and the identification of new projects that meet the SGMA, water quality and water reliability objectives of SCV Water.	The GSP Regulations require that Projects and Management Actions and an Implementation Plan be provided to cause the basin to reach sustainability over the 20 year implementation horizon in the event it would otherwise not meet the criteria. The process will include stakeholder involvement. Article 5 Plan Contents, Subarticle 5 Projects and Management Actions

Table 5, Professional Engineering/Hydrogeology Outline of Proposed Work

Proposal Task, **Fee,** **Description,** **Purpose**	**Current State at SCV Water**	**Description of GSP Regulation Requirements in General,** **Key GSP Regulations,** **State Provided Best Management Practices,** **State Guidance Documents.,** **Required by Grant**
Task 9: GSP Document Preparation, $106,000 This task details the process to develop the final GSP. Steps include development of the GSP outline, an administrative draft of the GSP, a public review draft of the GSP, and a final draft of the GSP. Each draft will include all required sections of the GSP, including appendices. Various previously prepared technical memoranda will be incorporated into the final GSP chapters. 9A. Develop GSP Outline Work follows DWR GSP outline guidelines. 9B. Prepare Administrative Draft GSP Work includes all appendices. This document will be reviewed and commented on by GSA staff. 9C. Prepare Public Draft and Final GSP The Public Draft GSP will be prepared for stakeholder and Board review and comment. Responses to comments will be directly addressed in the Final GSP or a response to comments will be prepared. The consultants' scope of work has been developed so that the scope corresponds with sections of the GSP. Tech memos developed for each task will be adapted and incorporated into the appropriate sections of the GSP. Stakeholders and the Board will have previously reviewed the technical memorandums that form much of the basis for the GSP and will have the opportunity to review the Public Draft GSP. Comments will be either directly addressed in the Final Draft GSP document or a response to the comments will be prepared. All comments and responses to comments will be documented and catalogued for submittal to DWR.	SCV Water has significant experience in working with consultant's to prepare large planning documents.	SGMA requires the GSP be developed and adopted by the GSA. Public review of the document is required. Plan must be submitted by January 31, 2022 Preparation Checklist for GSP Submittal Guidance Document GSP Annotated Outline Guidance Document Grant requires the complete GSP be adopted.

RESOLUTION NO. SCV-

RESOLUTION OF THE BOARD OF DIRECTORS OF THE SANTA CLARITA VALLEY WATER AGENCY AUTHORIZING THE GENERAL MANAGER TO ENTER INTO CONTRACTS FOR (1) STAKEHOLDER COMMUNICATION AND ENGAGEMENT SERVICES, AND (2) ENGINEERING AND HYDROGEOLOGY SERVICES FOR DEVELOPMENT OF A GROUNDWATER SUSTAINABILITY PLAN ON BEHALF OF THE SANTA CLARITA VALLEY GROUNDWATER SUSTAINABILITY AGENCY (SCV-GSA)

WHEREAS, the SCV-GSA is formed by a Joint Powers Agreement (JPA Agreement) between four member agencies; and

WHEREAS, the four member agencies are the City of Santa Clarita, the County of Los Angeles, Los Angeles County Waterworks District No. 36 and SCV Water; and

WHEREAS, the SCV-GSA and SCV Water have entered into an Administrative Services Agreement (Agreement) that describes member agency responsibilities in providing administrative and technical support to the SCV-GSA; and

WHEREAS, pursuant to the Agreement SCV Water prepared requests for proposals for (1) stakeholder communication and engagement services and (2) engineering and hydrogeology services for the preparation of a Groundwater Sustainability Plan; and

WHEREAS, a workgroup composed of staff representing member agencies of the SCV-GSA review proposals received by SCV Water to provide such services and reached a consensus on consultant selection; and

WHEREAS, pursuant to the Agreement, on _____, 2019, the SCV-GSA Board of Directors authorized SCV Water to enter into contracts with the above named firms; and

WHEREAS, pursuant to the Agreement, the next step is for SCV Water to award contracts to the above named firms; and

WHEREAS, the Board of Directors finds, after considering the opinion of staff, that the professional services proposals by (1) CV Strategies for Stakeholder Communication and Engagement in the amount of $150,000, and (2) GSI Water Solutions for Engineering and Hydrogeology in the amount of $ 1,251,550 are the most appropriate proposals for the work; and

WHEREAS, it is in SCV Water's best interest that the Board of Directors authorize its General Manager to enter into Professional Services time and expenses contracts with: (1) CV Strategies for Stakeholder Communication and Engagement in an amount not to exceed $150,000, and (2) GSI Water Solutions for Engineering and Hydrogeology in an amount not to exceed $1,251,550.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors authorizes the General Manager to enter into contracts with CV Strategies and GSI Water Solutions as described in this Resolution.

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ITEM NO.
6

Santa Clarita Valley Water Agency
Water Resources & Watershed Committee and Board Calendar

FY 2018/19

	Item	Jul 11 Comm	Jul 17 Board	Aug 7 Board	Aug 8 Comm	Sep 4 Board	Sep 12 Comm	Oct 2 Board	Oct 10 Comm	Nov 6 Board	Nov 14 Comm	Nov 20 Board	Dec 5 Comm *Special*	Jan 7 Board *Special*	Jan 9 Comm	Feb 5 Board	Feb 13 Comm	Mar 5 Board	Mar 13 Comm	Apr 2 Board	Apr 10 Comm	May 7 Board *move/cancel*	May 13 Comm *Special*	Jun 4 Board	Jun 12 Comm
1	Update on Conservation Activities	C		C	C		C		CNL		C		C		P		P		P		P		P		P
2	Devil's Den Semi-Annual Report	C													P										
3	Status of Water Banking Programs	C				C													P						P
4	Status of Sustainable Groundwater Management Act Implementation				C				CNL		C								P				P		
5	Status of Recycled Water Program		C																						
6	Status of Sites Reservoir Project				C		C																		
7	Status of Water Supplies												C				P								
8	Status of Integrated Regional Water Management Plan Update																								
9	Status of Upper Santa Clara River Salt and Nutrient Management Plan								CNL				C												
10	Status of Rosedale Rio-Bravo Water Storage District Banking and Exchange Program Extraction Facilities														P	P									
11	Status of Devil's Den Solar Generation Facilities												C												
12	Recommend Authorizing the General Manager to Execute an Agreement for SCV Water's Participation in Sites Reservoir 2019 Participation Agreement								CNL						P	P									
13	Status of Requests for Proposals for (1) Stakeholder Communication and Engagement Services, (2) Engineering and Hydrogeology Services and (3) Grant Administration Services for Development of a Groundwater Sustainability Plan on Behalf of the Santa Clarita Valley Groundwater Sustainability Agency												C												
14	Recommend Approval of a Resolution Authorizing the General Manager to Execute the Delta Conveyance Financing Authority Joint Power Agreement								CNL		C	C													
15	CLOSED SESSION: Anticipated Litigation										C	C													
16	CLOSED SESSION: Anticipated Litigation										C	C													
17	Recommend Approval of a Resolution Authorizing the General Manager to Enter into Contracts for (1) Stakeholder Communication and Engagement Services, and (2) Engineering and Hydrogeology Services for Development of a Groundwater Sustainability Plan on Behalf of the Santa Clarita Valley Groundwater Sustainability Agency (SCV-GSA)														P	P									

Santa Clarita Valley Water Agency
Water Resources & Watershed Committee and Board Calendar

FY 2018/19

	Item	Jul 11 Comm	Jul 17 Board	Aug 7 Board	Aug 8 Comm	Sep 4 Board	Sep 12 Comm	Oct 2 Board	Oct 10 Comm	Nov 6 Board	Nov 14 Comm	Nov 20 Board	Dec 5 Comm *Special*	Jan 7 Board *Special*	Jan 9 Comm	Feb 5 Board	Feb 13 Comm	Mar 5 Board	Mar 13 Comm	Apr 2 Board	Apr 10 Comm	May 7 Board *move/cancel*	May 13 Comm *Special*	Jun 4 Board	Jun 12 Comm
18	Recommend Approval of a Resolution Adopting Lead Agency CEQA Findings and Submit LAFCO Application for Annexation of Tesoro Del Valle (Revised Vesting Tentative Tract Map 51644-1)																						P	P	
19	California's Fourth Climate Change Assessment																P								
20	Recommend Approval of a Resolution Authorizing the General Manager to Execute an Amendment to the State Water Project Water Supply Contract to Allocate California WaterFix Costs and Provide for the Transfer and Exchange of State Water Project Water Supplies																		P	P					
21	Review of Watershed Recharge Feasibility Study																								P
22	Approve Authorizing the General Manager to Approve the Agreement in Principle to Amend the Agency's Water Supply Contract with the California Department of Water Resources	C		C																					
23	Recommend Approval of a Resolution Authorizing the General Manager to Execute an Agreement Forming the Joint Powers Authority for the Santa Clarita Valley Groundwater Sustainability Agency (SCV-GSA) and to Execute a Contract for SCV Water to Provide Management and Technical Services to SCV-GSA	C		C																					
24	Appoint a Fourth Santa Clarita Valley Groundwater Sustainability Agency Director and Alternate Director, and Designate a Single Alternate Director for Each Existing Director			C																					
25	Recommend Approval of a Resolution Authorizing the General Manager to Execute an Assignment of Buena Vista-Rosedale Rio Bravo Water Supply to the Proposed Tapia Annexation		C																						
26	Recommend Adoption of a Resolution Approving a Labor Compliance Program on Certain Grant-Funded Public Works Capital Improvement Projects and Authorize Staff to Pursue Approval of the Labor Compliance Program by the Department of Industrial Relations						C	C																	
27	Recommend Authorizing the General Manager to Execute a Memorandum of Understanding with United Water Conservation District to Facilitate Cooperative Watershed Planning						C	C																	
28	Review Proposed Integrated Regional Water Management Proposition 1 Grant Funding Allocation Strategy						C																		

Santa Clarita Valley Water Agency
Water Resources & Watershed Committee and Board Calendar

FY 2018/19

	Item	Jul 11 Comm	Jul 17 Board	Aug 7 Board	Aug 8 Comm	Sep 4 Board	Sep 12 Comm	Oct 2 Board	Oct 10 Comm	Nov 6 Board	Nov 14 Comm	Nov 20 Board	Dec 5 Comm *Special*	Jan 7 Board *Special*	Jan 9 Comm	Feb 5 Board	Feb 13 Comm	Mar 5 Board	Mar 13 Comm	Apr 2 Board	Apr 10 Comm	May 7 Board *move/cancel*	May 13 Comm *Special*	Jun 4 Board	Jun 12 Comm
29	Recommend Adoption of a Resolution Authorizing the General Manager to Execute a Grant Agreement on Behalf of the Santa Clarita Valley Groundwater Sustainability Agency (SCV-GSA) with the California Department of Water Resources for Preparation of Portions of a Groundwater Sustainability Plan (GSP)						C	C																	

P = Planned
C = Completed
CNL = Cancelled
CNT = Continued Item

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