

LOS OSOS GROUNDWATER BASIN, BASIN MANAGEMENT COMMITTEE

NOTICE OF MEETING

NOTICE IS HEREBY GIVEN that the Los Osos Groundwater Basin, Basin Management Committee Board of Directors will hold a **Regular Board Meeting** at **1:30 P.M.** on **Wednesday, January 15, 2020** at the South Bay Community Center, 2180 Palisades Ave, Los Osos, CA, 93402.

Directors: Agenda items are numbered for identification purposes only and may not necessarily be considered in numerical order.

NOTE: The Basin Management Committee reserves the right to limit each speaker to three (3) minutes per subject or topic. In compliance with the Americans with Disabilities Act, all possible accommodations will be made for individuals with disabilities, so they may attend and participate in meetings.

BASIN MANAGEMENT COMMITTEE BOARD OF DIRECTORS AGENDA

1. CALL TO ORDER

2. PLEDGE OF ALLEGIANCE

3. ROLL CALL

4. BOARD MEMBER COMMENTS.

Board members may make brief comments, provide project status updates, or communicate with other directors, staff, or the public regarding non-agenda topics.

5. CONSENT AGENDA

The following routine items listed below are scheduled for consideration as a group. Each item is recommended for approval unless noted and may be approved in their entirety by one motion. Any member of the public who wishes to comment on any Consent Agenda item may do so at this time. Consent items generally require no discussion. However, any Director may request that any item be withdrawn from the Consent Agenda and moved to the "Action Items" portion of the Agenda to permit discussion or to change the recommended course of action. The Board may approve the remainder of the Consent Agenda on one motion.

- a. **Approval of Minutes from December 18, 2019 Meeting**
- b. **Approval of Warrants, Budget Update and Invoice Register through December 2019**
- c. **Approval of Proposal from Water Systems Consulting for Professional Services as Executive Director for the Basin Management Committee**

6. EXECUTIVE DIRECTOR'S REPORT

7. ACTION ITEMS

a. **Appointment of BMC Officers for Calendar Year 2020**

Recommendation: Retain existing officers from calendar year 2020.

b. **Update on Status of Basin Plan Infrastructure Projects**

Recommendation: Receive report and provide input to staff for future action.

c. **Adoption of Basin Management Committee Annual Budget**

Recommendation: Adopt an annual budget for the Basin Management Committee for calendar year 2020.

d. Review and Approve Proposals from Cleath Harris Geologists for Calendar Year 2020 Hydrogeologic Services

Recommendation: Approve the proposal from Cleath Harris Geologists (CHG), in an amount not to exceed \$77,700, contingent on the approval of the 2020 budget by member entities.

e. Review and Approve Proposal from Cleath Harris Geologists for Urban Stormwater and Groundwater Recovery Feasibility Study

Recommendation: Approve the proposal from CHG, in an amount not to exceed \$15,000, contingent on the approval of the 2020 budget by member entities.

8. PUBLIC COMMENTS ON ITEMS NOT APPEARING ON THE AGENDA

The Basin Management Committee will consider public comments on items not appearing on the agenda and within the subject matter jurisdiction of the Basin Management Committee. The Basin Management Committee cannot enter into a detailed discussion or take any action on any items presented during public comments at this time. Such items may only be referred to the Executive Director or other staff for administrative action or scheduled on a subsequent agenda for discussion. Persons wishing to speak on specific agenda items should do so at the time specified for those items. The presiding Chair shall limit public comments to three minutes.

9. ADJOURNMENT

BASIN MANAGEMENT COMMITTEE BOARD OF DIRECTORS

Agenda Item 5a: Minutes of the Meeting of December 18th, 2019

Agenda Item	Discussion or Action
<p>1. CALL TO ORDER</p> <p>2. PLEDGE OF ALLEGIANCE</p> <p>3. ROLL CALL</p>	<p>Chairperson Zimmer called the meeting to order at 1:30 pm and led the Pledge of Allegiance.</p> <p>Mr. Miller, acting Clerk, called roll to begin the meeting. Director Gibson, Director Cote, and Chairperson Zimmer were all present, Director Ochylski was absent.</p>
<p>4. Board Member Comments</p>	<p>No Comments.</p>
<p>5a. Minutes of the Meeting of September 18th, 2019</p> <p>5b. Approval of Budget update and Invoice Register through November 2019</p>	<p>Mr. Miller: I just want to thank Matt Valez, on the minutes he has prepared for the BMC, these will be his last set of minutes.</p> <p><u>Public Comment</u> None.</p> <p><u>Board Comments</u> Director Zimmer: Do we have a motion?</p> <p>Director Gibson: So, moved.</p> <p>Director Cote: I would like to pull 5B if we could? Regarding the Cuesta monitoring well, I had a discussion with the CSD, S&T would prefer that these joint BMC assets would be owned in common with the 3 water purveyors. We want to approve the warrants and budgets, but we are in favor of forming a JPA.</p> <p>Director Cote: I second that motion.</p> <p>Ayes: Director Gibson, Director Cote, and Chairperson Zimmer Nays: None Abstain: None Absent: Director Ochylski</p>

6. Executive Director's Report

Executive Director, Rob Miller, provided a verbal overview of the written content of the Executive Director's report.

Board Comments

Director Cote: You mentioned staff meetings, are the water purveyors welcome to provide staff to come to these meetings?

Mr. Miller: Yes, if you have a staff level person to come to the meetings, yes of course.

Director Cote: As far as the Cannabis applications for change in use, part of our charter as the BMC is to try and improve measurements in monitoring in the Basin. I wonder if it would be possible for the BMC to make a recommendation to the County, that when there's a big change in Ag use like this, that they also require metering.

Director Gibson: Depending on the situation we often do require metering. We would see it as the Basin in critical overdraft level severity 3 in our Resource Management System and they would need to do water offsets. To confirm the water offsets, they must meter their water use.

Director Cote: Then those production numbers would be available to our Staff?

Director Gibson: Yes, it's public record. I'm interested in the recycled water facilities grant program because I want to have a transient model instead of our current solid-state model. It would help us assess things like the nitrate uses that we're dealing with. Our staff looked at it and our public works staff noting that they will pay up to half of project cost, up to \$150,000. So, we would have to find a way to fund the other half. I forgot the timing that we lay out for our budget and work plan, but I think with this new source it may be useful to fold that into our thinking on our next work plan update.

Mr. Miller: I do have an agenda item for today for a draft work plan and then we usually end up adopting that in January. That gives a month to have staff level discussions and we bring that back to the next meeting.

Director Zimmer: Do you know approximately what a transient model would cost for Los Osos?

Mr. Miller: Yes, it would be around \$120,000 - \$150,000.

Director: So, we would be looking at about \$60,000 in grant funding and we would be on the hook for the other \$75,000.

Mr. Miller: If it's a combined water recycling program including creek discharge which we've already committed \$50,000, we may be able to frame the application to take advantage of money we have already invested.

Director Gibson: I'm not sure what the requirements are at the state level for what projects qualify but I think we should push the envelope broadly on that.

Director Zimmer: Is that an additional \$50,000 for the Creek Discharge Project?

Mr. Miller: We haven't spent that yet. The \$50,000 you've already committed; the consultant hasn't finished the work product yet.

Director Zimmer: We're looking at that product today right?

Mr. Miller: We're looking at authorizing the next phase of it, you've authorized \$5,000 at your last meeting.

There may also be a typo with the acronym on page 1 of the report, WRFP should it be RWFPS?

Mr. Miller: Yes, that is possible.

Director Zimmer: Regarding the Basin Plan, Implementation, and funding, there are four bullet items, in bullet two talks about funding an execution plan to the Basin Infrastructure Programs B & D, should it be B & U?

Mr. Miller: That second bullet was intended to reflect back to the published basin plan Programs B & D and the third bullet was the Creek Discharge project. Since we formalized that into Program U we can add that to the bullet in the future.

Right below that it notes that funding already exists for programs A & C, but I think C is lumped with D in the chart.

Mr. Miller: Well when we hit item 7A we'll talk about expansion well number 2 under Program C.

While we're talking about all the different programs, as a staff we are looking at trying to lay out what each of the members of the committee has spent in terms of resources used to implement programs to date. We've had a few meetings on getting that squared away I just wonder if we know how much longer that will take?

Mr. Miller: We do have those numbers of what has been spent.

Director Zimmer: Regarding the JPA, what are the facilities going to be? Is it going to be worth the complexity that we're going to impose by forming a JPA? Also, will there be significant financial contributions from the JPA?

Mr. Miller: All members of a the JPA have joint ownership of the facility whereas currently only the County or CSD could solely own the facility.

Director Zimmer: I feel like it's early to form a JPA.

Mr. Miller: Next year when we're looking at Program B and ownership of facilities comes up we'll need to know what how we're going to structure that.

Director Gibson: A JPA could also help secure funding for projects and necessary work as well.

Public Comment

Ms. Owen: Regarding the recycled water and the purple pipe faucet on 10th street, who is going to be able to get that water and how will that program be set up? Where is the water credit program going at this point? Also, do we know how much water is being used by the Hemp farm next to the sewer?

Mr. Tornatzky: We've done a lot of talking but we haven't talking much about any real content.

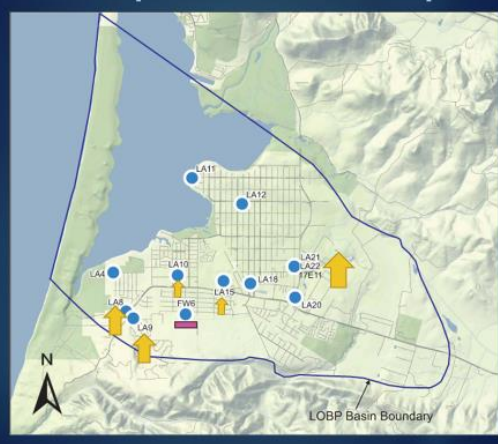
	<p>Mr. Edwards: Regarding the JPA, I don't think we want to form one just to own assets. I know there are other ways around that, and I think Golden State is working on that currently. Regarding the Community Plan, before the comment period ended, I provided a detailed comment letter that discusses water and the water balance in our basin. Regarding the Resource Management System, I think we need to upgrade our system on management. I think we need to retain the Title 19 retrofits, and bolster it, there is still huge opportunities for retrofits out there. I think for accessory dwelling units, these people should be made to retrofit. I think we also need to monitor how much flow Sea Pines is getting.</p> <p>Mr. Brannon: There are no Ag representatives in this group and us farmers would like to have some representation on this authority. We [would] also like to be allowed to provide comments for staff meetings as well.</p> <p>Mr. Miller: I have not heard a lot about the 10th St. fill station, County Staff was looking to get Sea Pines up and running and then focus on the middle school, it remains on their project list but there is not current motion on it.</p> <p><u>Board Comments</u> Director Gibson: I've asked about it but have not yet heard back from staff.</p> <p>Mr. Miller: The retrofits are still available and there has been some public outreach and there are a lot of 1.6-gallon toilets that could benefit from being replaced by higher efficiency toilets. We did attempt to identify the Hemp project but those aren't regulated the same way Cannabis is so the information that we have is less than we have for the Cannabis proposal. If so directed, we can bring back whole item on Cannabis and Hemp if we want to have a more detailed conversation.</p> <p>Director Cote: I did some arithmetic and I don't feel like the amount of recycled water Sea Pines is receiving accounts to being a majority of that water use.</p> <p>Mr. Miller: It is not a majority, but it is a large chunk and when we start getting further into the competing priorities, we'll have to start making some tougher decisions.</p> <p>Director Gibson: Regarding, Hemp and Cannabis, any irrigated agriculture over a level 3 severity basin does require offsets. However, we will double check on the exact boundaries of where that is exactly. Also, regarding Ag representation, I am your representation and I am happy to meet with agriculturalist to talk about your issues.</p>
<p>7a. Update on Status of Basin Plan Infrastructure Projects</p>	<p>Mr. Miller: Gave a detailed overview of the Update on Status of Basin Plan Infrastructure Projects.</p> <p><u>Board Comments</u> Director Cote: S&T and Golden State Water are in active discussions about interties so there has been some motion there. <u>Mr. Edwards</u>: Regarding Expansion Well 2, what is the anticipated depth of that well at completion? Also, what is the expected yield? Also, over in that zone where that well is being drilled, what is the depth of the residential wells in that area? Mr. Miller: The depth of the well would be to penetrate down into the lower aquifer to zone D range because it varies it would be in the 400-500 ft range. We have a good technical report on well depths in that area, but I don't have that in front of me. We are hoping for a yield on 100-200-acre ft per year.</p>

	<p>Director Zimmer: We will receive and file this item.</p>
<p>7b. Review and Approve Contract with MKN for Soil Aquifer Treatment Analysis for the Los Osos Creek Discharge Project</p>	<p>Mr. Miller: Gave a detailed overview of the Contract with MKN for Soil Aquifer Treatment Analysis for the Los Osos Creek Discharge Project.</p> <p><u>Board Comments</u> Director Gibson: The soil treatment of this has to do with just the dealing of the brine waste stream? Have we looked at alternatives?</p> <p>Mr. Miller: Brine discharge in an inland area is challenging. You can't just take out the dilute stream off the treated side and take the concentrate and put it back because it becomes a huge volume of water to deal with.</p> <p>Director Cote: So, for this \$50,000, we would produce a digital outcome, that would help DWR approve the Creek Discharge Project?</p> <p>Mr. Miller: There will be many hurdles for approval. This is one of the critical pieces needed.</p> <p>Director Cote: So, we're not approving further phases of the project with this \$50,000?</p> <p>Mr. Miller: No, this is only for this first portion.</p> <p><u>Public Comment</u></p> <p><u>Board Comments</u> Director Zimmer: We need a motion to approve the amount not to exceed \$50,000.</p> <p>Director Cote: I'll make that motion.</p> <p>Director Gibson: I second that.</p> <p>Ayes: Director Gibson, Director Cote, and Chairperson Zimmer Nays: None Abstain: None Absent: Director Ochylski</p>
<p>7c. Discussion of CHG Report on Lower Aquifer Nitrate Concentrations Trends Review and LA11 Seawater Intrusion Evaluation.</p>	<p>Mr. Miller: Gave a presentation on the CHG report on Lower Aquifer Nitrate Concentrations Trends Review and LA11 Seawater Intrusion Evaluation.</p>

Table 1
Lower Aquifer NO₃-N Concentration Trends

Program ID	Name/Location	Basin Area	Aquifer Zone		NO ₃ -N trend	
			Zone D	Zone E	Direction	Rate (mg/L per year)
LA8	S&T Mutual #5	Western	x		increasing	0.12
LA9	GSWC Cabrillo	Western	x		increasing	0.14
LA10	GSWC Rosina	Western	x	x	increasing	0.025
LA11	Morro Bay Observation #5	Central		x	flat (no nitrate)	none
LA12	LOCS D 8th St. Lower	Central	x		flat (no nitrate)	none
LA15	LOCS D Palisades	Western	x		increasing	0.025
LA18	10th St. Observation East	Central		x	flat (no nitrate)	none
LA22	So. Bay Blvd Observation #2	Central	x		increasing	0.3
17E11*	LOCS D South Bay Lower	Central	x		increasing	0.26

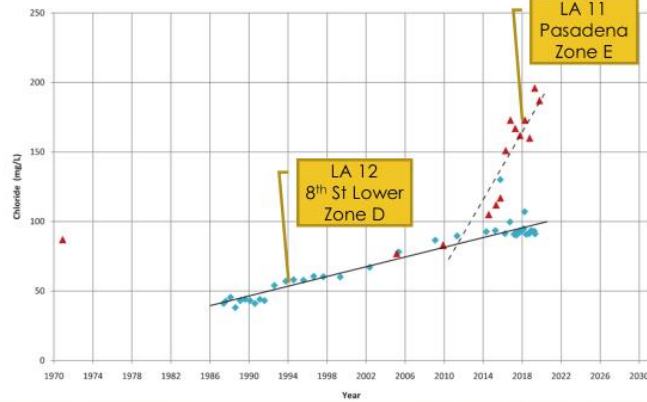
Lower Aquifer Nitrates in Report



Lower Aquifer Chlorides in Report



DRAFT
Chloride Concentration Trends
LA11 and LA12



Key Conclusions In Study - Nitrates 5

- Some lower aquifer wells are impacted by increasing nitrates
- Nitrate sources include general leakage through the upper/lower aquifer “aquitar” or clay barrier
- Bore hole contamination is an additional source

Public Comment

Owen: In 2005 some of the nitrate levels under the Cabrillo Estates, and S&T, and the Golf Course, that whole area close to the largest horse boarding facility in the community. If they were removed from nitrate production calculation, we wouldn't have even needed a sewer.

Mr. McGibney: The idea that the seawater intrusion has stopped is based on too little findings. The reports are unreliable due to the different variables found in them. Despite the chloride metric, seawater intrusion is still happening. We need many more monitoring wells and reliable data before we can assume the basin is sustainable.

Mr. Edwards: There is a discussion that can be had about how the Creek Discharge Project can be dovetailed with this analysis. Program B has high maintenance and operation costs so I would be cautious to expand on it. As a side note if we implemented all basin plan projects, we'd need about \$35 Million and I don't think we have that.

	<p>Director Cote: Is there a way that when someone is submitting a large technical piece of information like we've received today that we would be able to receive before hand to have a chance to review it?</p> <p>Mr. Miller: It depends on the speaker and if they have it ready, but if they send it ahead of time we would distribute it amongst the committee members.</p>
<p>7d. Discussion of 2020 Priorities and Budget</p>	<p>Mr. Miller: Gave a detailed overview of the 2020 Priorities and Budget plans.</p> <p><u>Board Comments</u></p> <p>Director Cote: This looks good to us at S&T, we are paying less than we thought we were going to and I like the idea of funding organizational studies prior to the budget. We have also already approved the increase to \$70,000 for administration.</p> <p>Director Gibson: The ongoing administrative costs that fall to the County are going to be the topic of further discussion. Our various staff personnel put in a lot of in-kind work and I think an accurate accounting of that is reasonable. I think we need to capture and see what a stable funding source looks like.</p> <p>Director Zimmer: I agree having the staff to staff communication on this budget and how we move forward and be ready in January.</p> <p>Director Cote: In the past S&T has not been included in the staff to staff meetings. I would like to see that change. If it's a problem that I sit on the S&T Board of Directors, we can fix that. We do want to participate in those.</p> <p>Mr. Miller: Designate someone for us and we will invite them to the next meeting.</p> <p><u>Public Comment</u></p> <p>Mr. Garfinkle: Some of the Board Members here are members of IRWM and I suggest we take a more aggressive role showing up at the IRWM meetings to try and tap into some of that funding that they offer.</p> <p>Ms. Owen: I haven't gotten an answer, we have two sub basins Warden Lake, and the one on the Eastern side. They were taken out of our basin, who pays for those basins? Can we revisit the quantity monitoring on all the wells?</p> <p>Ms. Begleiter: I read the Los Osos Community Plan, the high-end development being planned is around 30% increase in housing units over 15 years. Does this committee have input and strict oversight over this plan?</p> <p>Director Gibson: The approval of the Community Plan depends on demonstrating a sustainable supply of water to service the buildout that is planned.</p> <p>Mr. Miller: Regarding the fringe area outside the basin, the County made the investment to define that fringe to apply for its separate management under DWR and when it was determined that it was a low priority we didn't have the burden to prepare the big groundwater sustainability plan that you're having to do for some of the other fringes.</p>
<p>8. PUBLIC COMMENTS ON ITEMS NOT APPEARING ON THE AGENDA</p>	<p><u>Public Comment</u></p> <p>Ms. Owen: The fringe basin that is to the East of us is where all the Cannabis farms are going. I'd rather see fruit or vegetables grown out there. Regarding the growth in the community plan, the growth needs reduce development on water availability.</p>

	<p>Mr. McGibney: We need more data and more monitoring wells to show the intrusion has reversed. The Seawater Intrusion report shows intrusion in Zone E is continuing.</p> <p>Mr. Brannon: We should still be focusing on stormwater capture as it is a huge source of water that is being lost to runoff.</p> <p>Mr. Garfinkle: I just want to thank Rob Miller for the job he has done on the committee and elsewhere, he has done a wonderful job.</p> <p>Director Gibson: I want to thank you as well Mr. Miller you have done a great job.</p> <p>Director Zimmer: I agree you have been a wealth of knowledge and I appreciate all that you've done.</p> <p>Director Cote: I appreciate your calm demeanor, I believe your demeanor helps set the tone for our well run meetings.</p> <p>Director Zimmer: And also welcome aboard to Dan!</p>
9. ADJOURNMENT	<p>Meeting was adjourned at 3:37 pm.</p> <p>The next meeting will be on January 15th at the South Bay Community Center in Los Osos at 1:30 pm.</p>

TO: Los Osos Basin Management Committee

FROM: Dan Heimel, Executive Director

DATE: January 15, 2020

**SUBJECT: Item 5b – Approval of Budget Update and Invoice Register through
December 2019**

Recommendations

Staff recommends that the Committee review and approve the report.

Discussion

Staff has prepared a summary of costs incurred as compared to the adopted budget through December 2019 (see Attachment 1). A running invoice register is also provided as Attachment 2. Staff recommends that the Committee approve all pending invoices, outlined in Attachment 3. Payment of invoices will continue to be processed through Brownstein Hyatt as noted in previous meetings.

Attachment 1: Cost Summary (Year to Date - December 2019) for Calendar Year 2019

Item	Description	Budget Amount	Costs Incurred	Percent Incurred	Remaining Budget
1	Monthly meeting administration, including preparation, staff notes, and attendance	\$50,000	\$41,455.81	82.9%	\$8,544
2	Meeting expenses - facility rent (if SBCC needed for larger venue)	\$1,000	\$300.00	30.0%	\$700
3	Meeting expenses - audio and video services	\$6,000	\$5,300.00	88.3%	\$700
4	Adaptive Management - Groundwater Modeling & Well Head Surveying	\$15,000	\$8,472.50	56.5%	\$6,528
5	Semi annual seawater intrusion monitoring	\$29,200	\$23,490.10	80.4%	\$5,710
6	2018 Annual Report	\$33,500	\$32,810.00	97.9%	\$690
7	Grant writing (outside consultant)	\$5,000	\$0.00	0.0%	\$5,000
8	Creek Recharge and Replenishment Studies	\$50,000	\$4,469.63	8.9%	\$45,530
9	Cuesta by the Sea Monitoring well	\$115,000	\$10,917.50	9.5%	\$104,083
10	Stormwater and Perched Water Recovery Project - Feasibility Study	\$15,000	\$0.00	0.0%	\$15,000
	Subtotal	\$319,700	\$127,216		\$192,484
	5% Contingency (rounded to nearest \$100)	\$16,500	\$0.00		
	Total	\$336,200	\$127,216	37.8%	\$208,984
	LOCSA (38%)	\$127,756			
	GSWC (38%)	\$127,756			
	County of SLO (20%)	\$67,240			
	S&T Mutual (4%)	\$13,448			

Attachment 2: Invoice Register for Los Osos BMC for Calendar Year 2019 (through Dec. 2019)

Vendor	Invoice No.	Amount	Month of Service	Description	Budget Item	Date BMC. Approved
WG	47601	\$1,181.75	Dec '18	Monthly meeting administration	1	Jan-2019
CHG	20190103	\$8,300.00	Jan.	2018 Annual Report Preparations	6	Mar-2019
CHG	20190203	\$6,240.00	Feb.	2018 Annual Report Preparations	6	Mar-2019
CHG	20190204	\$1,200.00	Feb.	Cuesta by the Sea Monitoring well	9	Mar-2019
CHG	20190205	\$900.00	Feb.	Adaptive Management	4	Mar-2019
SBCC	122	\$120.00	Jan.	Meeting expenses - facility rent	2	Mar-2019
WG	47758	\$5,124.33	Jan.	Monthly meeting administration	1	Mar-2019
AGP	7697	\$725.00	Mar	Meeting expenses - audio and video services	3	May-2019
CHG	20190305	\$10,920.00	Mar	2018 Annual Report Preparations	6	May-2019
CHG	20190403	\$7,350.00	Apr	2018 Annual Report Preparations	6	May-2019
CHG	20190404	\$450.00	Apr	Cuesta by the Sea Monitoring well	9	May-2019
CHG	20190405	\$10,963.06	Apr	Semi-Annual Groundwater Monitoring	5	May-2019
CHG	20190306	\$2,580.00	Mar	Semi-Annual Groundwater Monitoring	5	May-2019
WG	47948	\$3,271.25	Feb.	Monthly meeting administration	1	May-2019
WG	48141	\$5,593.87	Mar	Monthly meeting administration	1	May-2019
AGP	7615	\$675.00	Jan.	Meeting expenses - audio and video services	3	Mar-2019
AGP	7799	\$725.00	Jun	Meeting expenses - audio and video services	3	Jun-2019
CHG	20190502	\$1,680.00	May	Semi annual seawater intrusion monitoring	5	Jun-2019
CHG	20190503	\$1,080.00	May	Adaptive Management - Groundwater Modeling & Well Head Surveying	4	Jun-2019
CHG	20190604	\$192.50	June	Adaptive Management - Groundwater Modeling & Well Head Surveying	4	Jun-2019
CHG	20190624	\$330.00	June	Semi-Annual Groundwater Monitoring	5	Jun-2019
WG	48365	\$2,572.74	April	Monthly meeting administration	1	Jun-2019
WG	48565	\$5,889.46	May	Monthly meeting administration	1	Jun-2019
AGP	7764	\$800.00	May	Meeting expenses - audio and video services	3	Jun-2019
SBCC	136	\$90.00	June	Meeting expenses - facility rent	2	Sep-2019
SBCC	138	\$90.00	July	Meeting expenses - facility rent	2	Sep-2019
AGP	7842	\$800.00	July	Meeting expenses - audio and video services	3	Sep-2019

CHG	20190803	\$4,500.00	August	Adaptive Management - Groundwater Modeling & Well Head Surveying	4	Sep-2019
WG	48992	\$5,350.83	July	Monthly meeting administration, including preparation, staff notes, and attendance	1	Sep-2019
WG	48781	\$3,684.08	June	Monthly meeting administration, including preparation, staff notes, and attendance	1	Sep-2019
CHG	20191002	\$9,267.50	Oct	Cuesta by the Sea Monitoring well	9	Dec-2019
CHG	20191003	\$7,937.04	Oct	Semi annual seawater intrusion monitoring	5	Dec-2019
CHG	20191004	\$1,800.00	Oct	Adaptive Management - Groundwater Modeling & Well Head Surveying	4	Dec-2019
WG	49687	\$1,605.33	Oct	Monthly meeting administration	1	Dec-2019
WG	49414	\$4,235.42	Sept	Monthly meeting administration	1	Dec-2019
WG	49862	\$4,128.50	Nov	Monthly meeting administration	1	Dec-2019
AGP	7568	\$800.00	Nov	Meeting expenses - audio and video services	3	Dec-2019
AGP	7893	\$775.00	Sept	Meeting expenses - audio and video services	3	Dec-2019
MKN	110519	\$4,377.13	Oct	Soil Aquifer Treatment	8	
MKN	123119	\$92.50	Dec	Soil Aquifer Treatment	8	
Total		\$128,397.29				

Total 2019 **\$127,215.54** To be approved
 not included in total- applied to 2018

TO: Los Osos Basin Management Committee

FROM: Dan Heimel, Executive Director

DATE: January 15, 2020

SUBJECT: Item 5c: Approval of Proposal for Executive Director Professional Services to be provided by Water Systems Consulting

Recommendations

Staff recommends that the Committee approve the proposed scope and fee for Executive Director Professional Services for Calendar Year 2020, to be provided by Water Systems Consulting, in an amount not to exceed \$69,330, and contingent on the approval of the 2020 budget by the Committee (Agenda Item 7d) and approval of the 2020 BMC budget by each of the member Boards.

Discussion

Item 7d on this month's agenda discusses the working budget for the calendar year 2020 BMC Committee. The budget for Executive Director Professional Services is included in Budget Item 1 (\$70,000). At the September 2019 BMC Meeting, the BMC approved the selection of WSC to provide 2020 Executive Director Professional Services and authorized \$5,000 of BMC Contingency funds to allow WSC to participate in 2019 BMC facilitation activities with former Interim Executive Director Rob Miller to aid in the Executive Director transition.

Financial Considerations

The draft Committee budget for calendar year 2020 includes specific line items for the proposed work as described above.

Scope of Work

TASK 1.0 BMC ADMINISTRATION

1.1 BMC Administration

- Perform BMC administrative tasks necessary for facilitate BMC activities, including but not limited to:
 - (1) Coordination with BMC Board Members, Stipulating Parties, and the public
 - (2) Coordinate with San Luis Obispo County staff so that documents and agenda packages are published to the BMC website in a timely and accurate manner
- Prepare and provide monthly invoices and progress reports describing activities of the Executive Director.
- Budget based on an assumption of 5 hours per month.

1.2 Financial Oversight

- Oversee financial operation of the BMC, including recommending an annual budget and processing invoices.
- Coordinate with the law office of Brownstein Hyatt Farber Schreck (BHFS) which performs the accounting function for the BMC, including the payment of approved invoices.
- Budget based on an assumption of 2 hours per month.

Deliverables: Updated BMC financial updates and proposed budgets.

1.3 BMC Representation

- Represent the BMC as directed to other entities, including DWR, RWQCB, and other agencies, as needed.
- Budget based on an assumption of 2 hours per month.

TASK 2.0 BMC MEETINGS

2.1 Meeting Coordination

- In consultation with the BMC Chair, coordinate up to 8 public BMC meetings.
- Coordinate with Audio/Video Consultant to ensure that the BMC meeting venue and audio/visual services properly performed.
- Budget based on an assumption of 8 meetings per year and 2 hrs per meeting.

2.2 Agenda Preparation

- In consultation with the BMC Chair, prepared agenda packets for up to 8 public BMC meetings.
- Budget based on an assumption of 8 meetings per year and 8 hrs per meeting.

Deliverables: BMC Meeting agenda packets

2.3 Meeting Attendance

- Function as staff (including clerk) during BMC public meetings, including providing appropriate technical input on questions from both Directors and the public.
- Oversee the BMC’s compliance with the Brown Act, with input from legal counsel provided by the BMC parties.
- Budget based on an assumption of 8 meetings per year and 4 hrs per meeting.

2.4 Meeting Minutes

- Prepare detailed minutes of all public meetings.
- Budget based on an assumption of 8 meetings per year and 5 hrs per meeting.

Deliverables: BMC Meeting minutes

TASK 3.0 PROGRAM MANAGEMENT

3.1 Annual Report Management

- Provide program management for the BMC on the Annual Report, including management of scope, schedule and budget, collection and incorporation of BMC and other comments, and publishing of approved work products.
- Participate in coordination meetings with the Annual Report consultant to provide work direction, receive project updates, and review consultant interim work products and deliverables.
- File required information to DWR’s website by the April 1st deadline.
- Budget based on an assumption of 50 hours year to oversee the development and submission of the Annual Report.

3.2 BMC Project Management

- Provide program management for the BMC on other projects, including management of scope, schedule and budget, collection and incorporation of BMC and other comments, and publishing of approved work products.
- Participate in coordination meetings with BMC consultants to provide work direction, receive project updates, and review consultant interim work products and deliverables.
- Budget based on an assumption of 40 hours year to provide Project Management services.

Potential Optional Tasks

The following optional tasks could be provided to assist the BMC in implementing the Basin Plan and helping achieve and maintain sustainability of Los Osos's water supply. If the BMC is interested in these services, WSC can prepare a level of effort estimates to provide these additional support services.

Communication & Outreach Support

Funding/Financing Assistance

As-Needed Technical Support

Fee Estimate

Based on the scope outlined above, WSC developed the following fee estimate for providing services as the Executive Director for the Los Osos Basin Management Committee. The fee estimate was based on the assumed hours for each of the tasks outlined in the scope of work.

Los Osos Basin Management Committee
 Executive Director
 Cost Proposal
 8/23/2019



Task No.	Task Description	WSC							ALL FIRMS	
		Executive Director	Technical Advisor	Engineering/Admin Support	Project Administration	WSC Labor Hours	WSC Labor Fee	Expenses	WSC Fee	Total Fee
		Daniel Heime	Michael Cruikshank	Kendall Stahl	Kay Merrill					
	<i>Billing rates, \$/hr</i>	\$225	\$225	\$155	\$125					
1	BMC Administration									
1.1	BMC Administration & Coordination	36		12	12	60	\$ 11,460	\$ 200	\$ 11,660	\$ 11,660
1.2	Financial Oversight	12		12		24	\$ 4,560	\$ 100	\$ 4,660	\$ 4,660
1.3	BMC Representation	24				24	\$ 5,400	\$ 100	\$ 5,500	\$ 5,500
	SUBTOTAL	72	0	24	12	108	\$ 21,420	\$ 400	\$ 21,820	\$ 21,820
2	BMC Meetings									
2.1	Meeting Coordination	8		8		16	\$ 3,040	\$ 100	\$ 3,140	\$ 3,140
2.2	Agenda Preparation	32		32		64	\$ 12,160	\$ 200	\$ 12,360	\$ 12,360
2.3	Meeting Attendance	32				32	\$ 7,200	\$ 100	\$ 7,300	\$ 7,300
2.4	Meeting Minutes	8		32		40	\$ 6,760	\$ 100	\$ 6,860	\$ 6,860
	SUBTOTAL	80	0	72	0	152	\$ 29,160	\$ 500	\$ 29,660	\$ 29,660
3	Program Management									
3.1	Annual Report Management	20	10	20		50	\$ 9,850	\$ 200	\$ 10,050	\$ 10,050
3.2	BMC Project Management	20		20		40	\$ 7,600	\$ 200	\$ 7,800	\$ 7,800
	SUBTOTAL	40	10	40	0	90	\$ 17,450	\$ 400	\$ 17,850	\$ 17,850
	COLUMN TOTALS	192	10	136	12	350	\$ 68,030	\$ 1,300	\$ 69,330	\$ 69,330

Executive Director
 Los Osos Groundwater Basin - Basin Management Committee



TO: Los Osos Basin Management Committee

FROM: Dan Heimel, Executive Director

DATE: January 15, 2020

SUBJECT: Item 6 – Executive Director’s Report

Recommendations

Staff recommends that the Committee receive and file the report and provide staff with any direction for future discussions.

Discussion

This report was prepared to summarize administrative matters not covered in other agenda items and also to provide a general update on staff activities.

Funding and Financing Programs to Support Basin Plan Implementation

Prop 1 GWGP: As indicated in the January 2018 meeting the State Board confirmed that sea water intrusion mitigation projects under Program C are eligible for low interest loans but are not currently eligible for grants under the Proposition 1 Groundwater Grant Program (GWGP). New wells in the upper and lower aquifer are viewed as aquifer management, not aquifer clean-up as defined by the State, therefore we will need to look for future funding rounds and other opportunities.

IRWM: The Program A upper aquifer well at 8th Street was submitted by Los Osos CSD to the local IRWM process in 2019 and was subsequently selected to be a part of the application for the current funding opportunity. The application for this grant was submitted in December 2019 and awards are expected to be announced in mid-2020.

Prop 1 SWGP: The concept of urban storm water recovery at 8th and El Moro was ranked in the draft County Stormwater Resource Plan, and future grant opportunities may be available through the Prop 1 Storm Water Grant Program (SWGP). The draft Stormwater Resource Plan can be found here: <https://www.slocounty.ca.gov/Departments/Public-Works/Forms-Documents/Committees-Programs/Stormwater-Resource-Plan/Documents/2018-09-10-SWRP-Public-Draft.aspx>

WRFP: The State Water Resource Control Board (SWRCB) recently increased the amount for Water Recycled Program Planning (WRFP) grants from \$75k to \$150k. This could provide a grant funding opportunity to advance Basin Plan initiatives with a reduced cost to the community of Los Osos. Potential scope items for the RWFPS could include:

- Transient Groundwater Model Development
- Soil Aquifer Treatment (SAT) Assessment
- Broderson/Creek Discharge Scenario Analysis

- Stormwater and Perched Water Recovery Project – Feasibility Study
- Adaptive Management Groundwater Modeling
- RWFPS Report Development

See Item 7c for additional discussion for how a WRFPS Grant could be utilized to support BMC initiatives.

Status of Basin Plan Implementation Plan and Funding Plan

The BMC has requested an integrated funding plan for project implementation and BMC monitoring and administration. Discussions are expected to continue into the coming months with the following goals:

- Funding plan for on-going BMC administration and monitoring, with options for funding in the absence of a community-wide special tax.
- Funding and execution plan for Basin Infrastructure Programs B and D, as appropriate. Note that funding already exists for Programs A and C.
- Additional progress for plans to supplement basin yield and provide for the community’s needs consistent with the Los Osos Community Plan, including creek discharge, storm water recovery, or other supply augmentation projects.
- Clear governance structure to accomplish objectives, including detailed consideration of a JPA if needed as discussed in previous meetings.

The BMC Party staff held several meetings in 2019 to discuss the following items. Outcomes that arise from these discussions will come before the BMC in subsequent meetings.

JPA Formation: Staff level discussions focused on need for and benefits of forming a JPA, see table below, to assist with implementation of the Basin Plan.

Table 1. JPA Formation Considerations

Pros	Cons
<ul style="list-style-type: none"> • Common ownership of basin assets 	<ul style="list-style-type: none"> • Complexity and community perception
<ul style="list-style-type: none"> • Ability to contract for services as an entity 	<ul style="list-style-type: none"> • Potential for more difficulty in formal proceedings - less nimble
<ul style="list-style-type: none"> • GSWC can participate as a director 	<ul style="list-style-type: none"> • More difficult to exit/change if needed
<ul style="list-style-type: none"> • Could cover entire limits of basin for funding 	
<ul style="list-style-type: none"> • If carefully done, incremental costs could be limited to insurance and up front legal expenses 	

As indicated in previously meetings, it was determined that GSWC could serve as an appointed JPA director without forming a separate Mutual Water Company entity, which would simplify the process.

- **Program B Implementation Process and Funding:** The existing nitrate removal facility owned by GSWC is intended to serve existing development, so it is likely that a Program B facility intended for future development would be jointly owned by either a JPA or by one of the public agencies.
 - Likely next steps for the implementation of Program B projects include:
 - Technical Studies in 2020 to validate and update cost estimates
 - Siting Studies to identify project locations
 - AB 1600 analysis to evaluate funding options relative to future development, in coordination with the Los Osos Community Plan.
 - Environmental Review (CEQA)
 - Land Use Permitting (e.g. Coastal Development Permits, etc.)
- **Program D:** Staff level discussions included the potential to defer implementation of Program D through adaptive management. Deferral decision could be reviewed on an annual or bi-annual basis.
- **Program U:** BMC authorized completion of the Soil Aquifer Testing to support implementation of the Creek Discharge Program. These activities are currently on hold pending outcome of the CY 2020 BMC Budget discussion (Item 7c).
- **Program M:** GSWC legal staff are preparing a simple operational agreement that will provide multi-party access to the new Cuesta by the Sea monitoring well.

The Funding and Organization Studies Budget Item (Budget Item 10) in the proposed CY 2020 BMC Budget would be a critical next step toward identifying and implementing the governance structures and funding mechanisms necessary to implement the Basin Plan.

Land Use Planning Process Update

Los Osos Community Plan: Los Osos Community Plan Update from Kerry Brown (12/4/2019). The Board authorized preparation of this update on December 11, 2012. A Public Review Draft Community Plan was released in January 2015. A series of community outreach meetings to unveil the Community Plan were conducted in the Spring of 2015. The plan was prepared to be consistent and coordinated with the draft groundwater basin management plan and the draft Habitat Conservation Plan. The plan may be reviewed at the Department of Planning and Building, the Los Osos Library and on the Department's website. The draft Environmental Impact Report was released on September 12, 2019, comments were due December 11, 2019. A Community Meeting on the Draft Environmental Impact Report for the Los Osos Community Plan and the Habitat Conservation Plan and associated Environmental Documents was held on October 28, 2019. Planning Commission hearings will start in early 2020.

Habitat Conservation Plan: Los Osos Habitat Conservation Plan from Kerry Brown (12/4/2019). The public review draft HCP and the associated Environmental Impact Report and Environmental Assessment was released on October 2, 2019 and the comment period ended on November 18, 2019. A Community Meeting on the HCP and associated Environmental Documents as well as the Draft Environmental Impact Report for the Los Osos Community Plan was held on October 28, 2019. Planning Commission hearings will start in early 2020.

Accessory Dwelling Units (ADU): It is our understanding that County Planning Staff will be bringing an ordinance to the Board of Supervisors on January 28, 2020 to discuss ADU construction in Los Osos. Staff may recommend that ADU development be delayed until water is available for new development, but a staff report has not yet been released. An update will be provided at the January 2020 BMC meeting.

Los Osos Wastewater Project Flow and Connection Update

Wastewater Flows: Influent flows to the treatment facility averaged 0.48 MGD.

Recycled Water: Sea Pines Golf Course received 693,900 gallons of recycled water in December.

Effluent Disposal: Effluent disposal was 46.5 AF to Broderson and 0.0 AF to Bayridge Leach Fields for the month of December. The cumulative effluent disposal for the calendar year as of 12/31/2019 was 555.65 AF.

Enforcement: As of 12/31/2019, the sewer service area has a 99.1% connection status. Of the 47 unconnected properties, Code Enforcement has issued 23 cases and are tasked with notifying properties with a Notice of Violation and impending fines. The other properties have expired building permits which have their own noticing process through the Planning and Building Department.

Water Conservation Update

Rebate Update: For this fiscal year, there have been rebates for six (6) toilets, one (1) showerhead, three (3) washing machines and (1) one hot water recirculatory. (source used: Water Conservation Rebate Forms)

Cannabis and Hemp Information

Hemp: According to the Ag Commissioners Office there is one Hemp grow located at APN 067-011-057 with approximately 5 acres planted outdoor and .1 acre indoor, total 5.1 acres. Hemp is not currently regulated under a land use permit, therefore no DRC tracking number has been assigned.

Cannabis: The County is processing DRC2018-00215 for cannabis cultivation. The County is requiring the applicant to offset the increased water use for the project, and the current proposal is to retrofit urban reverse osmosis systems to increase their efficiency. The total proposed

offset volume is 3.5 acre feet per year. The concept of urban area retrofits to address agricultural area cannabis has not been discussed by the BMC. Staff can bring this issue back for a more detailed discussion if desired.

Pending Task List for Executive Director

As requested at the January 2019 meeting, the following list of pending tasks has been created for BMC input and reference.

Task Description	Estimated Schedule	Budget Consideration
Adaptive management – nitrate contamination in lower aquifer, Zone E chloride concerns, with summary description of Zone D/E management	Draft completed – see Item 7c	Previously budgeted
Seawater intrusion imaging in coordination with Cal Poly	Pending land owner approval	Minor – staff time only
8 th /EI Moro urban storm water recovery project	Proposal is included in this agenda packet for BMC review and approval consideration – see Item 7e	Included in proposed 2020 budget
Creek discharge project	SAT Consultant was authorized to proceed at the December 2019 BMC Meeting, however, NTP has not been issued pending the discussion regarding a potential WRFP Grant – see Item 7c	Included in proposed 2020 budget

Sustainable Groundwater Management Act (SGMA)

SGMA Overview: The Sustainable Groundwater Management Act took effect on January 1, 2015.¹ SGMA provides new authorities to local agencies with water supply, water management or land use responsibilities and requires various actions be taken in order to achieve sustainable groundwater management in high and medium priority groundwater basins. Los Osos Valley Groundwater Basin (Los Osos Basin) was subject to SGMA based on the 2014 Basin Prioritization by the California Department of Water Resources (DWR) that listed the Los Osos Basin as high priority and in critical conditions of overdraft.²

¹ On September 16, 2014, Governor Jerry Brown signed into law a three-bill legislative package, composed of [AB 1739 \(Dickinson\)](#), [SB 1168 \(Pavley\)](#), and [SB 1319 \(Pavley\)](#), collectively known as SGMA

² SGMA mandates that all groundwater basins identified by DWR as high- or medium-priority by January 31, 2015, must have groundwater sustainability agencies established by June 30, 2017. The act also requires that all high- and medium-priority basins classified as being subject to critical conditions of overdraft in Bulletin 118, as of January 1, 2017, be covered by groundwater sustainability plans, or their equivalent, by January 31, 2020. Groundwater sustainability plans, or their equivalent, must be established for all other high- and medium-priority basins by January 31, 2022.

Basin Prioritization: On December 18, 2019, DWR released the SGMA 2019 Basin Prioritizations. Basins or subbasins reassess to low or very low priority basins or subbasins are not subject to SGMA regulations. A summary of DWR's Final SGMA Prioritizations for the Los Osos Area Subbasin and Warden Creek Subbasin are listed below:

- Los Osos Area Subbasin is listed as **very low** priority for SGMA³ and in critical conditions of overdraft⁴
 - SGMA does not apply to the portions of Los Osos Basin that are adjudicated provided that certain requirements are met (Water Code §10720.8).
- Warden Creek Subbasin is listed as **very low** priority for SGMA³

For more information on DWR's basin boundary modification and prioritization process, please visit:

<https://water.ca.gov/Programs/Groundwater-Management/Basin-Prioritization>

³ As noted by DWR, the priority for the subbasin has been set to very low (0 total priority points) as a result of conditions being met under sub-component C of the Draft SGMA 2019 Basin Prioritizations.

⁴ Critical conditions of overdraft have been identified in 21 groundwater basins as described in Bulletin 118 (Water Code Section 12924). Bulletin 118 (updates 2003) defines a groundwater basin subject to condition of critical overdraft as: "A basin is subject to critical conditions of overdraft when continuation of present water management practices would probably result in significant adverse overdraft-related environmental, social, or economic impacts."

TO: Los Osos Basin Management Committee
FROM: Dan Heimel, Executive Director
DATE: January 15, 2020
SUBJECT: Item 7a: Appointment of BMC Officers for Calendar Year 2020

Recommendations

Staff recommends that the Committee retain the existing officers for Calendar Year 2020.

Discussion

The adopted Rules and Regulations (January 2016) for the BMC require appointment of the Committee's officers as noted in the excerpt below from Section 4.2:

Appointment of Officers. The officers shall be appointed annually by, and serve at the pleasure of, the Basin Management Committee. Officers shall be elected at the first Basin Management Committee meeting, and thereafter at the first Basin Management Committee meeting following December 1 of each year. An Officer may serve for multiple consecutive terms. Any Officer may resign at any time upon written notice to the Basin Management Committee. The Secretary or Treasurer may be removed and replaced by an affirmative decision of the Basin Management Committee.

The current BMC officers are as follows:

Director Ochylski: Chairperson
Director Zimmer: Vice Chairperson
Director Cote: Secretary
Director Gibson: Treasurer

Staff's recommendation is to retain the existing officers, though adjustments could also be made at the meeting if desired.

TO: Los Osos Basin Management Committee

FROM: Dan Heimel, Executive Director

DATE: January 15, 2020

SUBJECT: Item 7b – Update on Status of Basin Plan Infrastructure Projects

Recommendations

Receive report and provide input to staff for future action.

Discussion

The Basin Management Plan for the Los Osos Groundwater Basin (Plan) was approved by the Court in October 2015. The Plan provided a list of projects that comprise the Basin Infrastructure Program (Program) that were put forth to address the following immediate and continuing goals:

Immediate Goals

1. Halt or, to the extent possible, reverse seawater intrusion into the Basin.
2. Provide sustainable water supplies for existing residential, commercial, community and agricultural development overlying the Basin.

Continuing Goals

1. Establish a strategy for maximizing the reasonable and beneficial use of Basin water resources.
2. Provide sustainable water supplies for future development within Los Osos, consistent with local land use planning policies.
3. Allocate costs equitably among all parties who benefit from the Basin's water resources, assessing special and general benefits.

The Program is divided into five parts, designated Programs A through D and Program M. Programs A and B shift groundwater production from the Lower Aquifer to the Upper Aquifer, and Programs C and D shift production within the Lower Aquifer from the Western Area to the Central and Eastern Areas, respectively. Program M was also established in the Basin Management Plan for the development of a Groundwater Monitoring Program (See Chapter 7 of the BMP), and a new lower aquifer monitoring well in the Cuesta by the Sea area was recommended in the 2015 Annual Report and completed in December 2020. Program U is the Urban Water Reinvestment Program that addresses the use of recycled water within the Basin. The attached table provides a comprehensive project status and summary.

Project Name	Parties Involved	Funding Status	Capital Cost	Status
Program A				
Water Systems Interconnection	LOCSD/ GSWC	Completed		
Upper Aquifer Well (8 th Street)	LOCSD	Fully Funded	\$250,000	Well was drilled and cased in December 2016. Budget remaining \$250,000 to equip the well. Design is 100% complete and project has been selected for IRWM matching funds which will be available in Q2 of 2020. Bidding will take place in Q1 of 2020, with completion of construction by Q4 2020.
South Bay Well Nitrate Removal	LOCSD	Completed		
Palisades Well Modifications	LOCSD	Completed		
Blending Project (Skyline Well)	GSWC	Fully funded	\$1.15 mil	Completed
Water Meters	S&T	Completed		
Program B				
LOCSD Wells (Upper Aquifer)	LOCSD	Not Funded	BMP: \$2.7 mil	Project not initiated
GSWC Wells (Upper Aquifer)	GSWC	Not Funded	BMP: \$3.2 mil	Project not initiated
Community Nitrate Removal Facility	LOCSD/GSWC	Partial, GSWC portion funded	GSWC: \$1.23 mil	GSWC's Program A Blending Project allows for incremental expansion of the nitrate facility and can be considered a first phase in Program B.

Project Name	Parties Involved	Funding Status	Capital Cost	Status
Program C				
Expansion Well No. 1 (Los Olivos)	GSWC			Completed
Expansion Well No. 2 (Lower Aquifer)	LOCSD is currently leading the project with potential GSWC and S&T involvement, depending on final location	LOCSD is currently leading the project with respect to funding	BMP: \$2.0 mil	Property acquisition phase is on-going through efforts of LOCSD. Four sites are currently being reviewed and a community workshop was held on 8/30/2018. Due to community concerns over siting, environmental review and permitting is expected to be on going through Q1 of 2020, with construction complete by Q1 of 2021. The LOCSD authorized the preparation of bid documents for a test well at Site A (Los Osos Middle School) at their 11/1/18 meeting. School District approved the Right of Entry Agreement on 8/21/2019. Bidding has been completed and a contract has been awarded. Drilling will commence as soon as a well drilling permit is issued by SLO County, which is expected to be in January 2020.
Expansion Well 3 (Lower Aquifer) and LOVR Water Main Upgrade	GSWC/LOCSD	Cooperative Funding	BMP: \$1.6 mil	This project has been deferred under Adaptive Management.
LOVR Water Main Upgrade	GSWC	May be deferred	BMP: \$1.53 mil	Project may not be required, depending on the pumping capacity of the drilled Program C wells. It may be deferred to Program D.
S&T/GSWC Interconnection	S&T/GSWC	Pending	BMP: \$30,000	In conceptual design
Program D				
Currently being considered for deferment through Adaptive Management. BMC to review on an annual or semi-annual basis.				
Program M				
New Zone D/E lower aquifer monitoring well in Cuesta by the Sea	All Parties	Funded through BMC Budget	\$115,000	Completed

Program U				
Creek Discharge Program	All Parties	Partially funded	\$582,000 through feasibility phase required, \$50k budgeted through 2020	The 2019 budget includes funding for limited baseline monitoring and Soil Aquifer Treatment evaluation in the amount of \$50,000. This item will continue through the beginning of 2020.
8 th and El Moro Urban Storm Water Recovery Project	All Parties	BMC funding for initial study only	\$15,000 for initial study. Capital cost to be determined.	Proposal provided for BMC review in Agenda Item 7e.

TO: Los Osos Basin Management Committee

FROM: Dan Heimel, Executive Director

DATE: January 15, 2020

SUBJECT: Item 7c – Adoption of Basin Management Committee Annual Budget

Recommendations

Staff recommends that the Committee review the provided budget alternatives, adopt Budget Items 1 through 6 for a cost of \$170,500 and provide input on the remaining items for subsequent adoption at the March 2020 BMC Meeting.

Discussion

Section 5.13.2 of the Stipulated Judgment requires that the BMC Parties develop an annual budget to fund its activities. Staff has prepared two draft budgets (attached): 1) a budget that does not include a Water Recycling Funding Program (WRFP) Planning Grant; and 2) a budget that includes a WRFP Grant and additional scope items, described below.

There are several Budget Items (1 - 6) that are necessary to initiate ASAP to ensure the timely completion of the 2019 Annual Report, ongoing groundwater monitoring and BMC Facilitation. If desired, the BMC could authorize these tasks and approve additional budget items at a subsequent BMC Meeting.

Given that the parties operate on different fiscal calendars, staff believes a standard calendar year to be the appropriate budget interval. A future agenda item for the BMC could include an in-depth review of the BMC and the BMC Parties budgeting process to enable more proactive budgeting of BMC initiatives.

CY 2020 BMC Budget - No WRFP Grant

The first budget, included as Table 1: CY 2020 BMC Budget - No WRFP Grant, incorporates the following key items:

- **BMC Administration** (Budget Item 1 – 3): Basin Management Committee (BMC) administration for Calendar Year 2020, including venue and meeting expenses.
- **Adaptive Management Studies** (Budget Item 4): Similar to 2019, a budget line item for adaptive management studies to be authorized if requested by the BMC. This item provides funding to allow the BMC to perform special studies, additional monitoring, Basin Plan implementation evaluations and/or other activities to adaptively manage the basin.
- **Hydrogeologic Services** (Budget Item 5 – 6): Consultant services for the preparation of the 2019 Annual Report, including groundwater monitoring. Note that the total cost of items 5 and 6 for CY 2020 is \$77,700. The Hydrogeologic Services budget for CY 2020

incorporates an increase of 21% to account for additional monitoring and analysis of the new Lupine Monitoring Well required in 2020, see additional details in Agenda Item 7d.

- **Grant Writing** (Budget Item 7): Consultant services to assist in the pursuit of grants. Could be used to prepare an application for a WRFP Grant.
- **Creek Recharge and Replenishment Studies** (Budget Item 8): Previously funded budget item and approved study to analyze Soil Aquifer Treatment to inform the Creek Discharge alternative.
- **Urban Stormwater and Perched Water Recovery Project** (Budget Item 9): Previously funded budget item to study to evaluate stormwater and perched water recovery opportunities to increase flow to the LOWRF and recharge of the basin.
- **Funding and Organization Studies** (Budget Item 10): Consultant services to investigate and evaluate funding opportunities for implementation of the Basin Plan.

Financial Considerations

The CY 2020 BMC Budget - No WRFP Grant Budget for CY 2020 is approximately 16% lower than 2019 because it does not include the cost of the Lupine (Cuesta by the Sea) Monitoring Well.

Estimated costs

LOCSD (38%)	\$111,910
GSWC (38%)	\$111,910
County of SLO (20%)	\$58,900
S&T Mutual (4%)	\$11,780

CY 2020 BMC Budget – WRFP Grant

The second budget, included as Table 2: CY 2020 BMC Budget – WRFP Grant, incorporates all the items from the first budget, but also includes funding for a WRFP Grant to help pay for the following additional items:

- **Transient Model Conversion:** Conversion of the basin groundwater model from steady-state to transient to improve understanding of basin conditions and to be able to better evaluate future predictive scenarios. This task items would include model conversion, model calibration and development of a model conversion report.
- **Model Scenario Analysis:** A transient groundwater model would allow for evaluation of variable hydrologic and other conditions to better understand the sustainability of basin groundwater supplies under different potential future scenarios. These scenarios could include evaluation of: creek discharge implementation; urban storm/perched water capture; climate change impacts; seawater intrusion scenarios; nitrate fate and transport; conjunctive use opportunities and others.

- **Technical Advisory Committee:** A Technical Advisory Committee formed of BMC staff members to oversee the development and provide input into the Transient Model Conversion and Model Scenario Analysis. Costs incurred by BMC Party Staff for these activities is eligible for use as match funding for the WRFP Grant, see description of match funding below.
- **Grant Administration:** The following tasks are required as part of the WRFP Grant:
 - Project Management: Meetings w/ State Water Resource Control Board; Project Team Meetings; Schedule Management; Invoicing and Reporting; etc. Costs incurred by BMC Party Staff for these activities is eligible for use as match funding for the WRFP Grant, see description of match funding below.
 - Report Development: WRFP Grant Guidelines require the development of a draft and final report that documents the evaluation of recycled water alternatives and the findings from the WRFP Grant activities.

The benefit of pursuing and incorporating a WRFP Grant is that it can provide up to \$150,000 in external grant funding to reduce the financial burden on the BMC parties. The Planning Grant requires that grant funding be matched with local contributions on a one-to-one basis, thus to receive \$150,000 in grant funding requires \$150,000 in local contributions.

Several of the Budget Items previously approved and funded by the BMC are likely eligible for use as match funds for a WRFP Grant, including: Creek Recharge and Replenishment Studies (Budget Item 8); and Urban Stormwater and Perched Water Recovery Project (Budget Item 9). Additionally, Grant Administration and Technical Advisory Committee contributions by BMC Party Staff could also contribute to the match requirement. However, to be eligible as match funds, activities cannot occur until after the WRFP Eligible Start Date, which occurs after the WRFP representatives approve the Planning Grant Application. Therefore, the activities listed above are currently on hold pending the discussion with the BMC regarding the potential pursuit of a WRFP Planning Grant.

These contributions likely do not meet the full match funding requirement for the Grant and would require additional contributions by the BMC Parties, currently estimated at \$70,000. However, a contribution of \$70,000 could return \$150,000 of external funding to offset costs to the BMC parties for improving their understanding of the basin and develop a toolset that will greatly improve their ability to sustainably manage the basin under variable and unknown future conditions.

The proposed CY 2020 BMC Budget – WRFP Grant represent one potential option for pursuing WRFP funding to aid the BMC in advancing the Transient Model Conversion initiative. Additionally, the WRFP administrators likely with have their own requirements for providing the grant funding that could change the proposed scope and budget for the potential WRFP grant.

Financial Consideration

The CY 2020 BMC Budget – WRFPP Grant for 2020 is approximately 7% more than 2019 after reimbursement of grant funds. However, WRFPP grant funds are reimbursed 50% upon completion of the Draft Project Report and 50% upon completion of the Final Report. Therefore, BMC Parties would need to budget for the full amount (not accounting for grant funds) to cover costs until grant funds are reimbursed by the WRFPP.

Additionally, only Public Agencies are eligible for WRFPP Grants so the Los Osos Community Services District (LOCSD) or the County of San Luis Obispo would need to be the grant applicant and would need to develop agreements with the other BMC parties for their contributions to the WRFPP grant activities.

Estimated costs

CY 2020 BMC Budget – WRFPP Grant for 2020 (Before WRFPP Grant Reimbursement)

LOCSD (38%)	\$197,714
GSWC (38%)	\$197,714
County of SLO (20%)	\$104,060
S&T Mutual (4%)	\$20,812

CY 2020 BMC Budget – WRFPP Grant for 2020 (Before WRFPP Grant Reimbursement)

LOCSD (38%)	\$140,714
GSWC (38%)	\$140,714
County of SLO (20%)	\$74,060
S&T Mutual (4%)	\$14,812

Table 1: CY 2020 BMC Budget - No WRF Grant

Item	Description	Cost	Comments
1	Monthly meeting administration, including preparation, staff notes, and attendance	\$70,000	Assumes 25 hours per month, on average
2	Meeting expenses - facility rent (if SBCC needed for larger venue)	\$1,500	\$30/hr for non-profit
3	Meeting expenses - audio and video services	\$6,000	
4	Adaptive Management Studies	\$15,000	Analysis of new monitoring well data, Program D deferral, other studies
5	Semi annual seawater intrusion monitoring	\$40,000	
6	2019 Annual Report	\$38,000	Not including services contributed directly from BMC member staff
7	Recycled Water Facilities Planning Study Grant Application	\$5,000	BMC member staff may also contribute to grant efforts
8	Creek Recharge and Replenishment Studies	\$50,000	Carried over from 2019
9	Stormwater and Perched Water Recovery Project - Feasibility Study	\$15,000	
10	Funding and organization studies	\$40,000	AB 1600, Program B, JPA
	Subtotal	\$280,500	
	5% Contingency (rounded to nearest \$100)	\$14,000	
	Total	\$294,500	
	LOCSD (38%)	\$111,910	
	GSWC (38%)	\$111,910	
	County of SLO (20%)	\$58,900	
	S&T Mutual (4%)	\$11,780	

Table 2: CY 2020 BMC Budget – WRFPP Grant

Item	Description	Cost	Proposed WRFPP Match Funds	Comments
1	Monthly meeting administration, including preparation, staff notes, and attendance	\$70,000		Assumes 25 hours per month, on average
2	Meeting expenses - facility rent (if SBCC needed for larger venue)	\$1,500		\$30/hr for non-profit
3	Meeting expenses - audio and video services	\$6,000		
4	Adaptive Management Studies	\$15,000		Analysis of new monitoring well data, Program D deferral, other studies
5	Semi annual seawater intrusion monitoring	\$40,000		
6	2019 Annual Report	\$38,000		Not including services contributed directly from BMC member staff
7	Recycled Water Facilities Planning Study Grant Application	\$5,000		BMC member staff may also contribute to grant efforts
10	Funding and organization studies	\$40,000		AB 1600, Program B, JPA
11	Recycled Water Facility Planning Study			
	Project Management	\$15,000		
	Transient Model Conversion	\$120,000		
8	Creek Recharge and Replenishment Studies	\$50,000	\$45,000	Carried over from 2019
	Model Scenario Analysis (e.g. Creek Discharge, Climate Change, Seawater Intrusion Prevention, Nitrate Contamination, etc.)	\$50,000		
9	Stormwater and Perched Water Recovery Project - Feasibility Study	\$15,000	\$15,000	Carried over from 2019
	Report Development	\$30,000		
	Technical Advisory Committee (In-Kind Staff Support)		\$20,000	
	Subtotal	\$495,500	\$80,000	
	5% Contingency (rounded to nearest \$100)	\$24,800		
	Total	\$520,300		
	Grant Funds	\$150,000		
	BMC Cost after Grant Reimbursement	\$370,300		
		Budget Amount	Cost After Reimbursement	
	LOCSD (38%)	\$197,714	\$140,714	
	GSWC (38%)	\$197,714	\$140,714	
	County of SLO (20%)	\$104,060	\$74,060	
	S&T Mutual (4%)	\$20,812	\$14,812	

TO: Los Osos Basin Management Committee

FROM: Dan Heimel, Executive Director

DATE: January 15, 2020

SUBJECT: Item 7d: Approval of Proposals for Hydrogeologic Services for Calendar Year 2020, to be provided by Cleath Harris Geologists

Recommendations

Staff recommends that the Committee approve the proposed scope and fee for hydrogeologic services for calendar year 2020, to be provided by Cleath Harris Geologists (CHG), in an amount not to exceed \$77,700 and contingent on the approval of the 2020 budget by the Committee (Agenda Item 7c) and approval of the 2020 BMC budget by each of the member Boards.

Discussion

Item 7c on this month's agenda discusses the working budget for the calendar year 2020 BMC Committee. The budget included the following two line items that relate to groundwater monitoring:

- Budget Item 5: Annual seawater intrusion monitoring: \$39,700
 - Incorporates a budget increase over the 2019 monitoring budget to account for additional monitoring that needs to be completed in 2020. This additional monitoring includes monitoring the sand spit wells (completed once every 5 years), Contaminant of Emerging Concern (CEC) sampling at FW6, as recommended in the 2018 Annual Report and incorporation of the Lupine Avenue Lower Aquifer monitoring well into the 2020 monitoring program.
- Budget Item 6: Annual report: \$38,000
 - Incorporates a budget increase over the 2018 Annual Report to account for updating the basin conceptual model (geologic cross-sections, e-log interpretation, seawater intrusion interpretation) using the results of the Lupine Ave Low Aquifer monitoring well and incorporating updates into the 2019 Annual Report.
- Total: \$77,700

The above two items are addressed in the attached proposals from CHG. The annual monitoring will be completed per the Basin Plan monitoring schedule (April and October). The Draft Annual Report will be completed in approximately 4 months from Notice to Proceed. While the Committee may choose to consider the proposals separately, staff is recommending that both be approved concurrently, and if approved, a single contract would be prepared for the work, similar to last year.

Notice to Proceed will be contingent on the Approval of Agenda Item 7d and approval of the BMC Committee budget by each of the member agencies. Once each of the member agencies approves the budget, Notice to Proceed will be provided to CHG.

Financial Considerations

The draft Committee budget for calendar year 2020 includes specific line items for the proposed work as described above.



January 7, 2020

Los Osos Basin Management Committee
c/o Mr. Daniel Heimel, P.E.
Water Systems Consulting
805 Aerovista Lane, Suite 201
San Luis Obispo, CA 93401

SUBJECT: Proposal for Los Osos Basin Plan 2020 Groundwater Monitoring.

Dear Mr. Heimel:

Cleath-Harris Geologists (CHG) proposes to perform hydrogeologic services related to groundwater monitoring for the Los Osos Basin Plan (LOBP). This proposal describes existing monitoring data collection and presents a scope of work, schedule, and estimated costs to complete the semi-annual LOBP Groundwater Monitoring Program recommendations, including sea water intrusion monitoring.

BACKGROUND

The groundwater monitoring program in Chapter 7 of the LOBP included 73 monitoring well locations within the basin. Nineteen locations have been added to the network (summary tables attached).

There are two existing, ongoing monitoring programs that historically overlapped with the LOBP monitoring program: the San Luis Obispo County Water Level Monitoring Program and the Los Osos Water Recycling Facility (LOWRF) Groundwater Monitoring Program. Beginning in winter 2016, the LOWRF monitoring schedule was shifted from spring and fall monitoring to summer and winter monitoring. As a result, data from the LOWRF monitoring program no longer coincides with the monitoring schedule adopted in the LOBP. A total of 22 network wells, including all five nitrate metric wells, were switched to the summer and winter monitoring schedule.

CHG plans to continue measuring water levels in April and October at those LOBP network wells that were shifted to summer and winter monitoring under the LOWRF monitoring program. Water quality testing, however, will not be duplicated in the schedule, and data from the LOWRF program in June and December 2020 will be used for reporting purposes.

This is the fifth year of LOBP monitoring and will include water quality testing at selected wells on the Morro Bay sand spit. Constituents of Emerging Concern (CEC) testing at FW6 has also been added for October 2020 per the recommendation in the 2018 Annual Report. The Lupine Avenue Lower Aquifer monitoring well was completed in 2019 and added to the network.



SCOPE OF WORK

CHG will perform the following tasks for the LOBP Groundwater Monitoring Program:

- Conduct/coordinate semi-annual water level monitoring in April and October 2020 at up to 55 well locations.
- Download and process pressure transducer data from up to 8 well locations.
- Conduct/coordinate groundwater sampling in April 2020 from up to 15 wells for general minerals analyses.
- Conduct/coordinate groundwater sampling in October 2020 from up to 25 wells for general mineral analyses, including up to 4 wells on the Morro Bay sand spit.
- Conduct groundwater sampling in October 2020 from up to three wells for CEC analyses, including two equipment blanks.

Deliverables:

Tables with results of Lower Aquifer seawater intrusion monitoring will be provided upon completion of the April and October 2020 monitoring events. Data interpretation and reporting is not included in this scope of work, but will be performed during 2020 Annual Report preparations.

SCHEDULE

The scope of work will be completed per the Basin Plan monitoring schedule (April and October monitoring).

FEES AND CONDITIONS

CHG proposes to perform the above scope of work on an hourly rate plus expenses basis in accordance with the hourly rates schedule and attached terms of fees and conditions. Laboratory analytical services, pump equipment, and CEC sample shipping are estimated at \$13,200. The cost for hydrogeologic services related to water level monitoring, groundwater sampling, transducer downloading, and coordinating with private well owners is estimated to be \$26,500; total cost for the 2020 groundwater monitoring scope of work is estimated to be **\$39,700**.



SCHEDULE OF HOURLY RATES

Principal Hydrogeologist	\$160
Senior Hydrogeologist	\$150
Project Geologist	\$135
Environmental Scientist	\$120
GIS Specialist	\$120
Staff Geologist II	\$120
Staff Geologist I	\$105

EXPENSES

Mileage	\$0.58/mile
Other expenses at cost plus 10 percent handling	

AGREEMENT

If the above described work scope and fees and conditions are acceptable, this proposal will serve as the basis for agreement.

Respectfully submitted,

CLEATH-HARRIS GEOLOGISTS, INC.

Spencer J. Harris, Vice President

attachment



TERMS OF FEES AND CONDITIONS

1. Invoices will be submitted monthly. The invoice is due and payable upon receipt.
2. In order to defray carrying charges resulting from delayed payments, simple interest at the rate of ten percent (10%) per annum (but not to exceed the maximum rate allowed by law) will be added to the unpaid balance of each invoice. The interest period shall commence 30 days after date of original invoice and shall terminate upon date of payment. Payments will be first credited to interest and then to principle. No interest charge would be added during the initial 30 day period following date of invoice.
3. The fee for services will be based on current hourly rates for specific classifications and expenses. Hourly rates and expenses included in the attached schedule are reevaluated on January 1 and July 1 of each year.
4. Documents including tracings, maps, and other original documents as instruments of service are and shall remain properties of the consultant except where by law or precedent these documents become public property.
5. If any portion of the work is terminated by the client, then the provisions of this Schedule of Fees and Conditions in regard to compensation and payment shall apply insofar as possible to that portion of the work not terminated or abandoned. If said termination occurs prior to completion of any phase of the project, the fee for services performed during such phase shall be based on the consultant's reasonable estimate of the portion of such phase completed prior to said termination, plus a reasonable amount to reimburse consultant for termination costs.
6. If either party becomes involved in litigation arising out of this contract or the performance thereof, the court in such litigation shall award reasonable costs and expenses, including attorney's fees, to the party justly entitled thereto. In awarding attorney's fees the court shall not be bound by any court fee schedule, but shall, if it is in the interest of justice to do so, award the full amount of costs, expenses, and attorney's fees paid or incurred in good faith.
7. All of the terms, conditions and provisions hereof shall inure to the benefit of and be binding upon the parties hereto and their respective successors and assigns, provided, however, that no assignment of the contract shall be made without written consent of the parties to the agreement.

**Los Osos Basin Plan
Monitoring Well Network 2020
FIRST WATER**

Program Well ID	Well Owner	Basin Plan Monitoring Code	County Water Level Program	LOWRF Groundwater Monitoring Program ¹	2020 Basin Plan Monitoring Program ²
FW1	PRIVATE	L			L
FW2	LOCSD	L, G		L, G	L
FW3	LOCSD	L		L	L
FW4	LOCSD	L		L	L
FW5	LOCSD	L		L	L, CEC
FW6	LOCSD	TL, G, CEC		G	TL, G, CEC
FW7	LOCSD	L			L
FW8	LOCSD	L		L	L
FW9	LOCSD	L		L	L
FW10	LOCSD	TL, G		G	TL
FW11	LOCSD	L		L	L
FW12	LOCSD	L		L	L
FW13	LOCSD	L		L	L
FW14	PRIVATE	L		L	L
FW15	LOCSD	L, G		L, G	L
FW16	LOCSD	L		L	L
FW17	LOCSD	L, G		L, G	L
FW18	SLCUSD	L			L
FW19	LOCSD	L		L	L
FW20	LOCSD	L, G		L, G	L
FW21	LOCSD	L		L	L
FW22	PRIVATE	L, G		L, G	L
FW23	PRIVATE	L		L	L
FW24	PRIVATE	L	L		
FW25	PRIVATE	L	L		
FW26	PRIVATE	L, G, CEC			L, G, CEC
FW27	PRIVATE	TL			TL
FW28	PRIVATE	L, G	L		G
FW29	PRIVATE	(added in 2015)	L		
FW30	PRIVATE	(added in 2015)		L	L
FW31	SLO CO.	(added in 2015)			L
FW32	PRIVATE	(added in 2017)			L
FW33	PRIVATE	(added in 2018)			L

**L = WATER LEVEL
G = GENERAL MINERAL
CEC = CONSTITUENTS OF EMERGING CONCERN
TL = TRANSDUCER WATER LEVEL**

**LOCSD = Los Osos Community Services District
SLCUSD = San Luis Coastal Unified School District
SLO CO. = San Luis Obispo County**

NOTES:

1 - Summer and winter monitoring schedule

2 - Spring and fall monitoring schedule

**Los Osos Basin Plan
Monitoring Well Network 2020
UPPER AQUIFER**

Program Well ID	Well Owner	Basin Plan Monitoring Code	County Water Level Program	LOWRF Groundwater Monitoring Program ¹	2020 Basin Plan Monitoring Program ²
UA1	SLO CO.	L	L		G
UA2	SLO CO.	L	L		G
UA3	GSWC	L, G			L, G
UA4	S&T	TL			TL
UA5	LOCSD	L		L	L
UA6	SLO CO.	L	L		
UA7	SLO CO.	L	L		
UA8	LOCSD	L			L
UA9	GSWC	L, G			L, G
UA10	LOCSD	TL			TL
UA11	PRIVATE	L		L	L
UA12	LOCSD	L		L	L
UA13	LOCSD	L, G			L, G
UA14	PRIVATE	L			L
UA15	PRIVATE	L			L
UA16	PRIVATE	(added in 2015)	L		
UA17	PRIVATE	(added in 2015)	L		
UA18	PRIVATE	(added in 2015)	L		

**L = WATER LEVEL
G = GENERAL MINERAL
TL = TRANSDUCER WATER LEVEL**

**LOCSD = Los Osos Community Services District
SLO CO. = San Luis Obispo County
GSWC = Golden State Water Company
S&T = S&T Mutual Water Company**

NOTES:

- 1 - Summer and winter monitoring schedule
- 2 - Spring and fall monitoring schedule

**Los Osos Basin Plan
Monitoring Well Network 2020
LOWER AQUIFER**

Program Well ID	Well Owner	Basin Plan Monitoring Code	County Water Level Program	2020 Basin Plan Monitoring Program
LA1	SLO CO.	L	L	
LA2	SLO CO.	L	L	G
LA3	SLO CO.	L	L	G
LA4	PRIVATE	L, GL		L
LA5	S&T	L	L	
LA6	GSWC	L, G	L	
LA7	PRIVATE	TL		TL
<i>LA8</i>	S&T	L, G		L, G
<i>LA9</i>	GSWC	L		L, G
<i>LA10</i>	GSWC	L, G		L, G
<i>LA11</i>	SLO CO.	L, G		L, G
<i>LA12</i>	LOCS D	L, G		L, G
LA13	LOCS D	TL		TL
LA14	SLO CO.	L, GL	L	
<i>LA15</i>	LOCS D	L, G		L, G
LA16	PRIVATE	L	L	
LA17	SLO CO.	L	L	
<i>LA18</i>	LOCS D	L, G		L, G
LA19	SLO CO.	L	L	
<i>LA20</i>	GSWC	L, G		L, G
LA21	LOCS D	L	L	
<i>LA22</i>	LOCS D	L	L	G
LA23	PRIVATE	L, G		L, G
LA24	PRIVATE	L	L	
LA25	PRIVATE	L		L
LA26	PRIVATE	L	L	
LA27	PRIVATE	TL		L
LA28	PRIVATE	L, G		L
LA29	PRIVATE	L	L	
LA30	PRIVATE	L, G		L
<i>LA31</i>	PRIVATE	(added in 2015)		G
<i>LA32</i>	LOCS D	(added in 2015)		G
LA33	PRIVATE	(added in 2015)		L
LA34	SLO CO.	(added in 2015)	L	
LA35	SLO CO.	(added in 2015)		L
LA36	PRIVATE	(added in 2015)		L
LA37	SLO CO.	(added in 2017)		TL
LA38	PRIVATE	(added in 2017)		L
LA39	GSWC	(added in 2019)		L,G
LA40	LOCS D	(added in 2019)		L,G
LA41	LOCS D	(added in 2019)		L,G

L = WATER LEVEL

G = GENERAL MINERAL

GL = GEOPHYSICAL LOG (triennial)

TL = TRANSDUCER WATER LEVEL

LOCS D = Los Osos Community Services District

SLO CO. = San Luis Obispo County

GSWC = Golden State Water Company

S&T = S&T Mutual Water Company

Well IDs with both April and October water quality monitoring in Italics



January 7, 2020

Los Osos Basin Management Committee
c/o Mr. Daniel Heimel, P.E.
Water Systems Consulting
805 Aerovista Lane, Suite 201
San Luis Obispo, CA 93401

SUBJECT: Proposal for preparing the 2019 Annual Monitoring Report for the Los Osos Groundwater Basin.

Dear Mr. Heimel:

Cleath-Harris Geologists (CHG) proposes to perform hydrogeologic services for completing the 2019 Annual Monitoring Report for the Los Osos Basin Plan (LOBP) Groundwater Monitoring Program. This proposal includes a scope of work, schedule, and estimated cost.

SCOPE OF WORK

The scope of work has been separated into annual report tasks and one additional study task. The additional study addresses specific recommendations or comments based on the prior year reporting.

Annual report tasks include:

- Update databases with 2019 groundwater level and quality data for LOBP monitoring network wells.
- Prepare the draft 2019 Annual Monitoring Report for Basin Management Committee (BMC) review. The report will include data reporting and interpretation for the period from January 1, 2019 through December 31, 2019. The report shall follow the 2018 Annual Monitoring Report format as a template, with updates for changed conditions.
- Receive BMC comments and incorporate into a final 2019 Annual Monitoring Report.
- Assist BMC with preparing CASGEM datasets.

Additional study task includes:

- Update basin conceptual model (geologic cross-sections, e-log interpretation, seawater intrusion interpretation) using results of 2019 Lower Aquifer monitoring well (Lupine Avenue) and incorporate into annual report.



SCHEDULE

The draft report will require approximately four months to complete. The final report would be available approximately 3-4 weeks following receipt of BMC comments.

FEES AND CONDITIONS

CHG proposes to perform the above scope of work on an hourly rate plus expenses basis in accordance with the hourly rates schedule and attached terms of fees and conditions. The estimated cost for hydrogeologic services to complete annual report tasks is estimated at \$34,000. The estimated cost to complete the additional study task is \$4,000; total cost for 2019 Annual Report Preparations is estimated to be **\$38,000**.

SCHEDULE OF HOURLY RATES

Principal Hydrogeologist	\$160
Senior Hydrogeologist	\$150
Project Geologist	\$135
Environmental Scientist	\$120
GIS Specialist	\$120
Staff Geologist II	\$120
Staff Geologist I	\$105

EXPENSES

Mileage	\$0.58/mile
Other expenses at cost plus 10 percent handling	

AGREEMENT

If the above described work scope and fees and conditions are acceptable, this proposal will serve as the basis for agreement.

Respectfully submitted,

CLEATH-HARRIS GEOLOGISTS, INC.

Spencer J. Harris, Vice President

attachment



TERMS OF FEES AND CONDITIONS

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4. Documents including tracings, maps, and other original documents as instruments of service are and shall remain properties of the consultant except where by law or precedent these documents become public property.
5. If any portion of the work is terminated by the client, then the provisions of this Schedule of Fees and Conditions in regard to compensation and payment shall apply insofar as possible to that portion of the work not terminated or abandoned. If said termination occurs prior to completion of any phase of the project, the fee for services performed during such phase shall be based on the consultant's reasonable estimate of the portion of such phase completed prior to said termination, plus a reasonable amount to reimburse consultant for termination costs.
6. If either party becomes involved in litigation arising out of this contract or the performance thereof, the court in such litigation shall award reasonable costs and expenses, including attorney's fees, to the party justly entitled thereto. In awarding attorney's fees the court shall not be bound by any court fee schedule, but shall, if it is in the interest of justice to do so, award the full amount of costs, expenses, and attorney's fees paid or incurred in good faith.
7. All of the terms, conditions and provisions hereof shall inure to the benefit of and be binding upon the parties hereto and their respective successors and assigns, provided, however, that no assignment of the contract shall be made without written consent of the parties to the agreement.

TO: Los Osos Basin Management Committee

FROM: Dan Heimel, Executive Director

DATE: January 15, 2020

SUBJECT: Item 7e: Approval of Proposal for Urban Stormwater and Groundwater Recovery Feasibility Study to be provided by Cleath Harris Geologists

Recommendations

Staff recommends that the Committee approve the proposed scope and fee for Urban Stormwater and Groundwater Recovery Feasibility Study, to be provided by Cleath Harris Geologists (CHG), in an amount not to exceed \$15,000 and contingent on the approval of the 2020 budget by the Committee (Agenda Item 7c) and approval of the 2020 BMC budget by each of the member Boards.

Discussion

Included in the approved 2019 BMC Budget was Item 10 Stormwater and Perched Water Recovery Project – Feasibility Study (\$15,000). The attached proposal from CHG is to complete the previously budgeted study to evaluate opportunities to capture stormwater and perched groundwater in the urban areas of Los Osos and convey it the Los Osos Water Recycling Facility (LOWRF) for treatment and then use as additional recharge water for the basin. This study could be incorporated into the WRFP Grant, discussed in Agenda Item 7c, and used as match funds.

Financial Considerations

The draft Committee budget for CY 2020 and the approved CY 2019 budget includes specific line items for the proposed work as described above.



December 9, 2019

Los Osos Basin Management Committee
c/o Mr. Rob Miller, PE
Wallace Group
612 Clarion Court
San Luis Obispo, CA 93401

SUBJECT: Proposal for preliminary urban stormwater and groundwater recovery feasibility study, Los Osos, California.

Dear Mr. Miller:

Cleath-Harris Geologists (CHG) proposes to provide hydrogeologic services to perform a preliminary feasibility analysis on urban stormwater and shallow groundwater recovery in Baywood Park for beneficial use. The purpose of the study is a high-level review of the conceptual project and recommend next steps if the project appears feasible, which could include extending the concept to other areas of Los Osos. The recovery method would involve detention basin(s) and infiltrations galleries that deliver water to the sewer system during off-peak hours (nights). Sensitive resource protection and water quality would be addressed. This proposal includes a scope of work, schedule, and estimated cost.

SCOPE OF WORK

The tasks that will be performed include the following and are focused on Baywood Park:

Urban Stormwater Recovery

- Compile and review information on the drainage area, stormwater runoff volume and quality, the local detention basin, sewer infrastructure, and stormwater pump station located in the vicinity of the LOCSO 8th Steet yard and adjacent Baywood Elementary.
- Identify potential constraints or concerns on using sewer infrastructure and the Los Osos Wastewater Recycling Facility (LOWRF) to accept urban stormwater flow during off-peak periods and using the existing drainage basin to provide temporary storage while maintaining its primary function of controlling stormwater runoff.
- Meet with the school district and County WWTP staff to discuss the urban water recovery project on a conceptual basis. This would be a very general discussion with the assistance of the Executive Director.



Groundwater Recovery

- Compile and review groundwater and sewer invert elevations, available records on local dewatering operations during the wastewater project, existing shallow groundwater quality, and information on groundwater dependent ecosystems along the bay.
- Evaluate the amount of potential groundwater recovery using passive (gravity) infiltration galleries and the potential constraints or concerns on delivery during off-peak periods for to LOWRF and on adverse impacts to sensitive resource areas.
- Meet with County WWTP staff to discuss the groundwater recovery project on a conceptual basis.

CHG will provide a technical memorandum with results of study and recommended next steps if the project appears feasible, including extending the concept to other areas of Los Osos.

SCHEDULE

CHG anticipates the scope of work will require 3-4 months to complete.

FEES AND CONDITIONS

CHG proposes to perform the above scope of work on an hourly rate plus expenses basis in accordance with the hourly rates schedule and attached terms of fees and conditions. The level of effort for this feasibility study has been budgeted at \$15,000.

SCHEDULE OF HOURLY RATES

Principal Hydrogeologist	\$160
Senior Hydrogeologist	\$150
Project Geologist	\$135
Environmental Scientist	\$120
GIS Specialist	\$120
Staff Geologist II	\$120
Staff Geologist I	\$105

EXPENSES

Mileage	\$0.58/mile
Other expenses at cost plus 10 percent handling	



AGREEMENT

If the above described work scope and fees and conditions are acceptable, this proposal will serve as the basis for agreement.

Respectfully submitted,

CLEATH-HARRIS GEOLOGISTS, INC.

Spencer J. Harris, Vice President

attachment



TERMS OF FEES AND CONDITIONS

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5. If any portion of the work is terminated by the client, then the provisions of this Schedule of Fees and Conditions in regard to compensation and payment shall apply insofar as possible to that portion of the work not terminated or abandoned. If said termination occurs prior to completion of any phase of the project, the fee for services performed during such phase shall be based on the consultant's reasonable estimate of the portion of such phase completed prior to said termination, plus a reasonable amount to reimburse consultant for termination costs.
6. If either party becomes involved in litigation arising out of this contract or the performance thereof, the court in such litigation shall award reasonable costs and expenses, including attorney's fees, to the party justly entitled thereto. In awarding attorney's fees the court shall not be bound by any court fee schedule, but shall, if it is in the interest of justice to do so, award the full amount of costs, expenses, and attorney's fees paid or incurred in good faith.
7. All of the terms, conditions and provisions hereof shall inure to the benefit of and be binding upon the parties hereto and their respective successors and assigns, provided, however, that no assignment of the contract shall be made without written consent of the parties to the agreement.