

# 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 **Board Meeting** at **1:30 P.M.** on **Wednesday, January 17, 2018** at the Los Osos Community Services District Office at 2122 9<sup>th</sup> Street, 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 However, any Director may request that any item be withdrawn from the Consent Agenda and moved to the "Action Items" portion of the Agenda to permit discussion or to change the recommended course of action.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 November 15, 2017 Meeting.**
- b. **Approval of Warrants, Budget Update and Invoice Register through December 2017.**

## 6. **EXECUTIVE DIRECTOR'S REPORT**

## 7. **ACTION ITEMS**

- a. **Update on Status of Basin Plan Infrastructure Projects**

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

- b. **Adoption of Basin Management Committee Annual Budget**

Recommendation: Adopt an annual budget for the Basin Management Committee for calendar year 2018.

- c. **Approval of Proposals for Hydrogeologic Services for Calendar Year 2018, to be provided by Cleath Harris Geologists**

Recommendation: Approve the proposed scope and fee for hydrogeologic services for calendar year 2018, to be provided by Cleath Harris Geologists, in an amount not to exceed \$56,000, contingent on the approval of the 2018 budget by member entities.

**d. Water Conservation Program Update**

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

**e. Update on Recycled Water Agreements for Agricultural Users**

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

**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**



Mr. Miller: Yes.

Chairperson Zimmer: The existing Morro Bay facility, it is being condemned because of its condition or is it under capacity and needs to be expanded on?

Mr. Miller: The City of Morro Bay operates with a water quality waiver where they don't have to do full secondary treatment. They are one of the few waivers left in the state, but they are under orders from the Regional Board to upgrade to at least secondary treatment.

Director Gibson: They need to expand the physical plant, and they don't have room to do that at its current location. They are looking to find a location away from the coast.

Director Zimmer: Maybe, they could continue using the current plant and send the excess to Los Osos, if that is a possibility?

Director Gibson: They are facing some serious deferred maintenance on their collection system that is quite significant. The peak flows in the winter time are affected by that. The peak flows hit over 3 mgd. We will remain completely open with talking to Morro Bay on any project that makes sense.

Director Garfinkel: When Los Osos was considering bringing water in from Morro Bay, the Board or the Coastal Commission said we couldn't put a pipe over the creek, isn't that correct?

Mr. Miller: The issue of connections to the State Water Project through the Chorro Pipeline have only been looked at in a cursory manner. It has not been looked at in a level of detail that would give a definitive answer. It would be difficult getting approval to have the pipeline go through the estuary and over the Chorro Creek bridge, but we can't give finality to that.

#### Public Comment

Mr. Brannon: Last night at the City Council meeting, Morro Bay awarded a contract to a firm to build a lift station and a pipeline from the existing facility out to South Bay Blvd. Their thought is that they'll build a plant at some property behind Los Flores. I'm hoping during the study for that plant they'll do a good accurate analysis of the loads and flows. When the Los Osos plant was built the people that did the design had an estimate and there were some inaccuracies. As we've seen recently with rate increases, consumption goes down. I think if we tighten up the current system and cut back on infiltration and bring consumption down there may be room at the Los Osos plant for treatment.

Mr. Best: It seems like the Morro Bay connection may over tax the Los Osos plant. If we constantly ran the plant at full capacity our infrastructure would be overloaded. The risk of an 8 mile pipeline would be significant. The cost impacts to transport that water that distance would also be significant it would make more sense to find a solution in Morro Bay.

**7a. Update on Status of Basin Plan Infrastructure Projects**

Mr. Miller: Gave a brief overview and updates on projects under Programs A & C.

Questions from the Board

Director Gibson: Move forward with the expansion wells when the well sites are secured meaning identified and negotiated?

Mr. Miller: We have 3 sites that have been identified and 2 that are in active discussions.

Director Gibson: Can you give us an indication of if we're likely to find sites for these wells?

Mr. Miller: There's at least one site that is very likely.

Mr. Garfinkel: Your last sentence "Additional cooperative funding approaches with other BMC members could also be considered for Expansion Well No. 3 or other program elements" did the CSD have something specific in mind for that?

Mr. Miller: No not specific. I think the intent of that statement is to say a public agency is able to raise funding to pursue a project and get out in front of it.

Director Zimmer: Would there be any benefit to running the model or some type of technical analysis of these completed projects to see if there are any signs or results confirming that the projects that we are going to move forward with are the best option?

Mr. Miller: From staff perspective, it is cost effective to do that. The model is easy to run, and we can look at scenarios at any time.

Director Garfinkel: I support Director Zimmer's ideas and questions. Have we seen any indication of the water we're putting into Broderson getting down into the wells that we're monitoring?

Mr. Miller: Yes, very recently.

Director Gibson: I think that's a good way to proceed. As long as it does not delay further progress on getting these projects in. The manner in which we are developing the funding for these programs is much clearer to me on the CSD side than it is on the Golden State side. Some greater understanding of that would be helpful to me. Is there the thought that the results must be much different from the analysis that lead us to propose this package in the first place?

Mr. Miller: Looking at this we need a CSD funded well, Golden State already funded the first one, the question really is, do we need a 3<sup>rd</sup> well?

Director Gibson: My interest is getting this program moving forward and seeing results that I can help staff take to Coastal Commission to get Los Osos setup for future growth. I'm sensitive to any actions that detracts from moving forward.

Director Zimmer: I'm aligned with that, we don't want to derail our goals. I just think that we've started completing a good portion of these projects and I would like to have reassurance that they are working.

Director Gibson: One of the things we've never had here is a timeline of these projects. If

	<p>we're getting to that and talking about the analyses of cost effectiveness and timing effectiveness if that might be developed as part of that we can look out years into the future.</p> <p>Director Zimmer: A lot of this was built on modeling and conclusions and now we have some data to bring in and confirm that.</p> <p><u>Public Comment</u></p> <p>Mr. Margetson: Concerning the Los Osos well project, could you talk about funding from the CSD with the rate increase and the possible surplus from last year and how that may affect the timeline as well as what the timeline looks like?</p> <p><u>Response from the BMC</u></p> <p>Mr. Miller: Yes, we are projecting that in fiscal year we are currently in that we'd have net revenues of about a \$500,000 available for a project or projects. That number would go up to around \$700,000 next fiscal year 2018-2019 and peak at \$900,000 in 2019-2020. In those three years also with net revenues we have from last fiscal year it would be sufficient in that time, if the CSD so chose, to fully fund that one additional well. I don't remember the exact net revenue numbers that were projected in the last audit on the CSD, I'm not sure if you know Director Cesena?</p> <p>Director Cesena: It seems to fluctuate, I would say about \$300,000-\$400,000.</p> <p>Mr. Miller: So, we're coming to a point we're able to fund some projects.</p> <p>Director Zimmer: Do we have a motion?</p> <p>Mr. Miller: Staff is not proposing any action, but we do have your general input which we we'll bring back what that modeling effort would cost and what kind of product you would get out of it, and how that would fit into your budget framework. The time element of these projects would be included as well.</p>
<p><b>7b. Water Conservation Program Update</b></p>	<p>Mr. Miller: Provided a verbal overview of the written content of the Water Conservation Program Update Discussion Item.</p> <p>Director Gibson: To me, this is a water purveyor issue. The County would certainly be willing to help in any way we can, but ultimately the purveyors need to lead on this.</p> <p>Director Garfinkel: I did receive comment on this item from my Alternate Director, Mr. Cote, who is here today. I'd ask that he bring forth his comments during public comment.</p> <p><u>Public Comment</u></p> <p>Mr. Edwards: There's very little conservation occurring right now. I urge the committee not to spend a lot of time on conservation. We need to setup a framework where funds are available through the private sector. We need to consolidate the conservation efforts, update Title 19 and drop the outreach ideas. In Paso Robles and in Nipomo the planning department provides a card that outlines all the water conservation programs for the community, I think it would be beneficial to offer something like this card.</p> <p>Mr. Cote: In the first paragraph of Item 7b, it states the septic tank repurposing program</p>

and the Low Impact Development Landscape measure aren't going to be recommended since there is no clear nexus between waste water project and the reduction of outdoor irrigation. To clarify the idea of what this nexus is, the idea as I understand it is that conservation of roof water is not the same as conservation of produced water. However, with the connection of everyone's individual effluent streams the amount of water available for each yard that was benefitting from each individual effluent stream has been eliminated which in turn must increase, if everyone is going to maintain their greenery in their yards that would necessitate an increase in irrigation using produced water. I just want to make sure we still agree with that.

Mr. Best: Who owns the reclaimed water coming from the plant? Also, how/when will it become available for all residential uses, and in refurbished/new tanks?

#### BMC Comments

Mr. Miller: Regarding Director Alternative Cote, I understand his point, but I see the County's perspective which is, if it affects the flow and loading that goes to the collection system into the wastewater plant that's where the nexus comes into play and how it affects the cost to operate the wastewater facility. As for the ownership of the recycled water, it would be the ones who pay for the waste water project which would be the connected properties. The County who operates the plant is not looking to compete with the purveyors for water customers, so any retail use for the water would need to flow through the purveyors. We are still unable to sell recycled water for residential uses because of state regulations.

Director Garfinkel: Regarding Los Osos not doing any conservation, that is completely false. I know in S&T we have somewhere over 500 people living here and in 2016 our water usage dropped to about 50 gallons per person per day, inside and outside. Also, throughout the community many people have changed their outdoor landscaping.

Director Cesena: On the other hand, the CSD is seeing use creep back up and I think it's because of fact that when it's in front of us we see it and we do it, but some people feel the drought is over. I saw an article that showed a correlation between the amount of media coverage on water conservation and actual conservation, and the more reminders there are for people, the more people conserved. I think a water conservation outreach program is something we still need to think about.

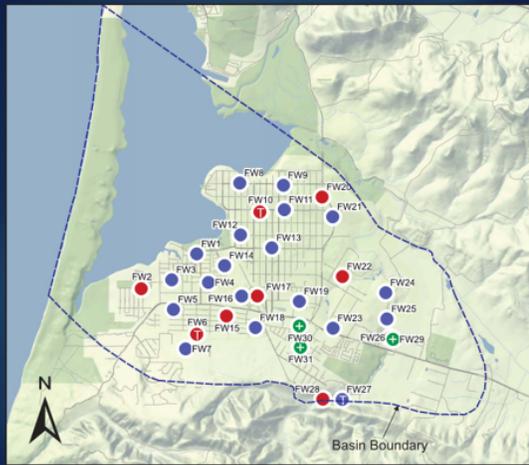
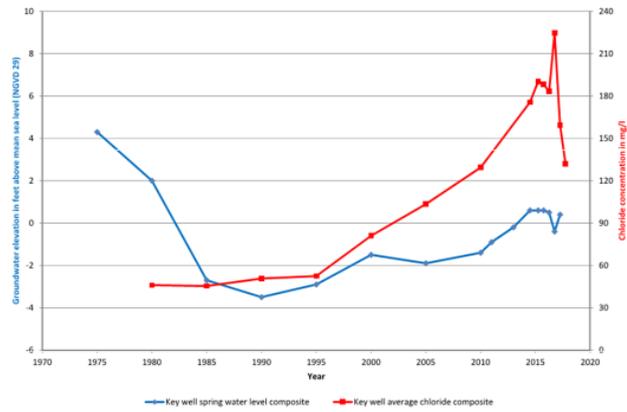
Director Gibson: On further use of the recycled water, we have to think about the most efficient way to do that. The infrastructure costs to do this are going to be significant either way. Trying to get recycled water out to individual gardens is going to be a challenge. We have a better chance of seeing what the state does with potable reuse, so we can concentrate the infrastructure and investment and really make an impact on the extractions out of the basin.

Director Zimmer: We were looking at establishing a committee and we got clarity on what it would take to do that. I think our best approach right now is to have a community outreach effort, similar to the card Mr. Edwards brought up. There is a lot of confusion and people aren't sure where to go with different entities that all have different requirements, we need to clarify it all. If we could have staff look at a community outreach effort and meeting where we consolidate all the conservation efforts and deliver that at the meeting. After that meeting, we can reconvene about the need in starting another committee.

	<p>Mr. Miller: Would we wait on that until the rebates are approved by coastal? That way when we have that meeting, we can flash the different rebate programs and explain what these items are such as a water recirculator, and we can invite people in and say come and hear about the new rebates that are available and how they might benefit you.</p> <p>Director Zimmer: When would that be?</p> <p>Mr. Miller: I would guess by the end of the year.</p> <p>Director Gibson: However, having that committee in place before doing the community outreach might make sense.</p> <p>Mr. Miller: Also, if staff could have concrete feedback from 1 or 2 board members who are minded that way, whether it's updated a postcard like this one, or the consolidation of programs, if you could help staff on their messaging a little bit since you hear from your customers.</p> <p>Director Cesena: I like the idea of the card, I know from the CSD perspective we've talked to the Chamber of Commerce about reaching out to the schools again. When you get kids involved they will get their parents involved. We want to make competitions and have businesses involved that will fly the banners of the winning students.</p> <p>Mr. Miller: Staff has direction. We'll bring back something concrete as the rebates near approval, a list of ideas for a community meeting and a mailer and we can bring those back and proceed in that fashion.</p> <p>Director Zimmer: As well as support from board member staff to help the messaging of the material.</p> <p>Mr. Miller: I know Golden State has a dedicated water conservation person who knows the fixtures very well, so I may tap them as well.</p> <p>Director Zimmer: We will get you in contact with them.</p>
<p><b>7c. Review and Discussion of Fall 2017 Monitoring Data</b></p>	<p>Mr. Miller: Provided a verbal overview of the written content of the Fall 2017 Monitoring Data Discussion Item.</p>

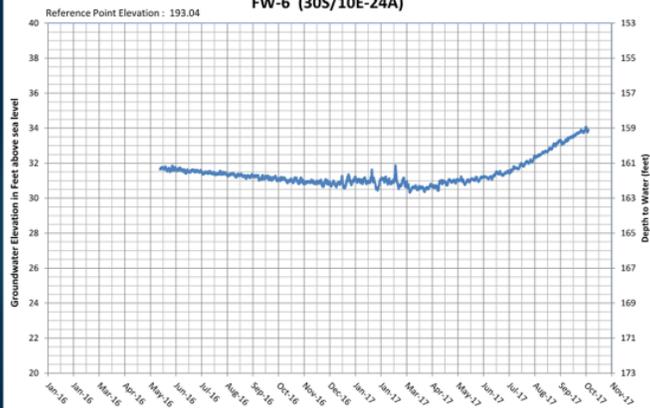
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### Chloride and Water Level Metric Lower Aquifer Composite Values



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### Hydrograph FW-6 (30S/10E-24A)



Director Zimmer: Which month did we start releasing water at Broderson?

Mr. Miller: I believe June 2016.

	<p><u>Public Comment</u></p> <p>Mr. Margetson: Rob, could you tell us about the impacts on both graphs if we add another two-year drought?</p> <p>Mr. Best: Filtered water reclaimed from the sewer is not potable, where can I get a report on the quality of that water? Are there samples being taken at the well downstream from the Broderson leach field? Also, do we know what quality of water will be entering the aquifer long term?</p> <p>Mr. Miller: In response to Mr. Margetson, we know that the drought has an impact. There would be reduced recharge since the recharge in the basin is directly related to rainfall as well as increased irrigation. I do agree that we need to be cautious throughout prolonged droughts. As to the level of monitoring, there are quarterly monitoring events that the County is currently doing as part of the Wastewater project. Those reports get submitted to the Regional Board and are subject to public information. As we get our hands on those we are trying to consolidate that into our Annual Report. Next June you'll see the results from the sampling that occurred in 2017. They are taking physical water quality samples in some of those downstream wells, I believe there are some CEC tests being tested as well.</p> <p>Director Gibson: The County meets the standards of its waste discharge permit and those things that are regulated is what we're testing for. CEC's are of concern and we will look forward to responding as necessary when we have guidance and standards to do that.</p> <p>Director Zimmer: Regarding the trend we saw from the monitoring well, it continually rose even in the summer months, have we seen other wells respond differently?</p> <p>Mr. Miller: Yes, that is why we concluded that we're probably seeing a signature, because we didn't see the same response from the surrounding wells.</p> <p>Director Zimmer: Future action items on this is that we will keep looking at this data and analyzing it. You mentioned that this graph we just saw will come back on a regular basis?</p> <p>Mr. Miller: As soon as it's updated, we will always bring it back in the next available meeting.</p>
<p><b>7d. Review and Discussion of Recycled Water Management</b></p>	<p>Mr. Miller: Provided a verbal overview of the written content of the Review and Discussion of Recycled Water Management Discussion Item.</p>

## Recycled Water Volumes

2

- Current projection: 500 to 550 AFY with all existing properties connected
- 650 to 700 AFY at build out, depending on future density

## Recycled Water Uses

3

- Broderson – Zone C disposal at up to 448 AFY
- Bayridge Estates Leach Fields up to 33 AFY
- Urban reuse, primarily schools, at 50 to 60 AFY
- Los Osos Creek Recharge
- Community park at 2 AFY
- Sea Pines – offset primarily Zone C production – volume to be determined (up to 90 AFY)
- Cemetery – potential up to 50 AFY
- Agriculture



### BMC Comments

Director Garfinkel: So, the Los Osos one shown on the chart that recharges directly to the lower aquifer is the creek?

Mr. Miller: For direct recharge, correct. It is modeled that Broderson has a 20-25% benefit

of getting additional water to the lower aquifer because of the pressures of that mound.

Just to clarify the direct lower aquifer recharge the last sentence in the creek discharge memorandum it states, "that there would be a benefit from the new crop agriculture reuse." is that saying that we would be recharging the aquifer for the Ag wells that they were drawing from would be modified to more of an upper aquifer?

Mr. Miller: Not so much. Basically, that section, the alluvium, is in communication with the lower aquifer, we would have wells on the west side of that creek that would directly benefit from that recharge, but you can't force that recharge to go only one direction. So, there would also be a benefit to the east side, but we would look to optimize our own conditions to recapture that water.

Director Gibson: I think the other perspective to realize here is at the point we framed the recycled water plan we were operating under the need to dispose of effluent and that was a different mindset than we might adopt right now. So, we know that in certain instances that not getting an effect on the lower aquifer was acceptable because of the disposal as well as the condition of the permit. The resource of the recycled water from this plant from the County's mind is to be used to the benefit of the community's water supply.

Director Zimmer: With the changes and conditions does the County see that they have to go back to the Coastal Commission to amend any part of the CDP?

Director Gibson: We have to go back to the Coastal Commission every time we do something different from the permit.

Director Zimmer: I just didn't know if conditions were forcing you to do something different than what you intended to do. I know you were looking for options of releasing more water.

Director Gibson: In terms of the Ag component of this it's voluntary, we can't force agriculture to take any of our recycled water, unless we go through a different provision under the water code; which is a possibility but not a desirable one. As a voluntary program to comply with the 10% requirement of the permit we signed contracts to put water where it would not benefit the Basin. It's not the preferred method but it's what was available at the time.

Director Cesena: Has there been any kind of informal discussion of backing off of that 10% requirement with coastal staff?

Director Gibson: No, we have not approached that conversation.

Director Cesena: That seems like it needs to be addressed since the conditions are so different than they were.

Director Gibson: I'm not opposed to that. We have a number of other constraints that we have to meet but our focus has been on getting this project fully connected.

Director Zimmer: Looking at our projected quantities, we're basically there with the projects we have in place. One of the things we talked about with the Creek Discharge Project is that would be the additional water, but the costs associated with that is great and you mentioned that funding would come from grants.

Mr. Miller: You have some baseline monitoring to do and I'm interested in the metrics that are downstream of Broderson to confirm effectiveness like the shallow well we saw today. One of the things we need to be watching to be confident that the hydraulic conditions are as expected, we look for at least a 50% match to pursue the first planning steps, the background work for the recharge project other local communities have been successful in that. We have an IRWM request in for that if we're successful then staff will bring that forward. It is another option that would be robust for extended drought periods since that is the one place that recharges to the lower aquifer.

Director Gibson: There is also a water efficiency question as well, if you put an acre foot in the creek, how much gets to the lower aquifer and if you put an acre foot in Broderson how much goes to the lower aquifer?

Director Zimmer: Right, I don't want to pursue the creek discharge at the cost that I saw unless the cost is nominal to position us to some grant funding.

Mr. Miller: To get a sense of those numerical values Broderson is around a 20-25% lower aquifer benefit. Creek discharge in a wet year is not efficient but in consecutive dry years it's about a +50% lower aquifer benefit, so it becomes very efficient in a long drought.

Director Gibson: Another constraint we have on the use of the recycled water at Broderson and Bayridge Estates is mitigation for wetlands with the disconnection of the septic tanks.

Director Garfinkel: It seems the issue we have now and going forward is our main source of potable water is the lower aquifer. Have we ever tried to compare the three ways of getting that water, the creek, versus the same amount of water blending, versus the same amount of water from injecting?

Mr. Miller: The injection option will trigger advanced membrane treatment, the creek discharge doesn't, and we scoped it to not be forced into producing a brine stream.

Director Garfinkel: What about blending versus creek discharge?

Mr. Miller: As in direct reuse, the regulations require RO and advanced treatment for all those blending options.

Director Gibson: Director Garfinkel was your question more about blending upper aquifer water?

Mr. Miller: In our programs A & C we are already considering those blending options.

Director Garfinkel: Would it make sense to do more blending or pursue the creek?

Mr. Miller: We have already maximized our blending opportunities under programs A & C, under program B we could do more upper aquifer supply.

Director Gibson: Anything we choose to do with available recycled water we have to keep our eye on long term of direct potable reuse and keep it flexible.

Director Zimmer: Are these quantities the committed quantities you mentioned?

Mr. Miller: These quantities are projected.

Director Gibson: The commitment we have is the environmental offset and environmental mitigation of disconnection of the septic systems. That's not a precisely known number, but it was thought that we had to do half of our projected effluent to Broderson and Bayridge. The other commitments were to Ag and the environment and anything else is up to us subject to Coastal's approval of our recycled water plan.

#### Public Comment

Mr. Margetson: Considering the agricultural reuse, I started complaining about this five years ago. There's no mitigation for any of this effluent that is going to dry land farmers. If you are going to do anything, go back to the Coastal Commission and get that off this list and if there is extra water to be distributed, put that back into the environment category. The condition says no less than 10% goes to agriculture and it should be removed.

Mr. Best: How long does it take for the water at Broderson and the creek take to reach the aquifer? How will that water be introduced to the creek? Also, what are our injection well capacities?

Mr. Edwards: I support the creek discharge project. The most important steps we can take in addition to creek discharge is the new well on the Eastside and additional conservation. You should reach out to the Coastal Commission to review and determine the recycled water management plan and see if it can be modified to eliminate dry land farmers and reduce the environmental commitment. The number one focus should be on recharging the basin.

Mr. Brannon: The effluent is of no use to the farmers without salt removal. The contractual relationship that was made to build the plant without mitigation for the ag community will be a challenge.

#### BMC Comment

Mr. Miller: Regarding the timeline for water from Broderson or Creek to the nearest well is a matter of years. The water would be discharged directly into the creek alluvium on the surface. Currently there are no injection wells in the community, we have talked about them but do not have one yet.

Gibson: I'm happy to talk with staff about the wider picture of our ag recycled water use and see where we might have some options. I would remind the committee that it is only 50 acre feet. Regarding whether our sewer system could handle processing storm water, we would need to see if it has some capacity for storm water.

Director Cesena: Are we currently sending water to the dry land farmers?

Director Gibson: No.

Director Gibson exited the meeting, alternate Hutchinson took his seat.

Mr. Miller: There is a series of on-site retrofits that would have to happen for that to occur. We will continue to pursue grant funding for the creek discharge. We will continue encourage the consummation of the urban reuse contracts that are pending and do the

	<p>work to confirm what the specific arrangements for the ag reuse and those will be our action steps.</p> <p>Director Zimmer: Did we authorize funding for the creek discharge.</p> <p>Mr. Miller: Not that you've authorized. You have some funding available for grant pursuit so we'll bring forward a snapshot and the next step.</p>
<p><b>8. Public Comment for Items not on the Agenda</b></p>	<p>Mr. Best: I've spoken with farmers and they do not want to receive the reclaimed water because of the salt content. I still believe the best idea is having the plant produce potable water. I have ideas on this as well as creating a recreational saltwater pool that would also help the basin.</p> <p>Mr. Edwards: There was a recent article in the newspaper that mentions that the entire basin is in a severity level 3 of overdraft. We are not in overdraft. The article also mentioned that there is a need for millions of dollars more than what is really needed.</p> <p>Mr. Margetson: We need to have a future agenda item on staff of the County talking about the ag issue. Because it is more than 50 acre feet committed to dry land farmers. We need a better explanation and breakdown of the commitments and impact of backing out from the commitment.</p> <p>Alternate Director Hutchinson: I just got a message that Coastal Commission has approved the revised wastewater rebate program mentioned here earlier today. So there will be additional water conservation rebates available.</p> <p>Director Zimmer: Regarding the executive report, the flow conditions update says it is going to the Bayridge leach fields but I didn't think there was water going there at this time?</p> <p>Mr. Miller: I thought they did put some there, but I will confirm it and bring it back.</p> <p>Director Zimmer: Thank you.</p>
<p><b>9. ADJOURNMENT</b></p>	<p>Meeting was adjourned at 3:30 pm. The next meeting will be on January 17<sup>th</sup> at the South Bay Community Center in Los Osos at 1:30pm.</p>

**TO: Los Osos Basin Management Committee**

**FROM: Rob Miller, Interim Executive Director**

**DATE: January 17, 2018**

**SUBJECT: Item 5b – Approval of Budget Update and Invoice Register through December 31, 2017**

### **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 31, 2017 (see Attachment 1). A running invoice register is also provided as Attachment 2. Staff recommends that the Committee approve the current 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) for Calendar Year 2017 (updated through December 31, 2017)**

<b>Item</b>	<b>Description</b>	<b>Budget Amount</b>	<b>Costs Incurred Through December 31</b>	<b>Percent Incurred</b>	<b>Remaining Budget</b>
1	Monthly meeting administration, including preparation, staff notes, and attendance	\$50,000	\$39,924.36	79.8%	\$10,076
2	Meeting expenses - facility rent (if SBCC needed for larger venue)	\$1,000	\$600.00	60.0%	\$400
3	Meeting expenses - audio and video services	\$6,000	\$3,750.00	62.5%	\$2,250
4	Legal counsel (special counsel for funding measure)	\$10,000	\$0.00	0.0%	\$10,000
5	Semi annual seawater intrusion monitoring	\$15,000	\$25,375.66	169.2%	-\$10,376
6	Annual report - not including Year 1 start up costs	\$35,000	\$25,590.00	73.1%	\$9,410
8	Grant writing (outside consultant)	\$12,000	\$1,102.50	9.2%	\$10,898
9	Creek Recharge and Replenishment Studies	\$25,000	\$23,200.08	92.8%	\$1,800
10	Funding measure including Proposition 218 process	\$100,000	\$0.00	0.0%	\$100,000
11	Conservation programs (not including member programs)	\$10,000	\$0.00	0.0%	\$10,000
	Subtotal	\$264,000			\$144,457
	10% Contingency	\$26,400			
	<b>Total</b>	<b>\$290,400</b>	<b>\$119,542.60</b>	<b>41.2%</b>	<b>\$170,857</b>
	LOCS D (38%)	\$110,352			
	GSWC (38%)	\$110,352			
	County of SLO (20%)	\$58,080			
	S&T Mutual (4%)	\$11,616			
Notes					

**Attachment 2: Invoice Register for Los Osos BMC for Calendar Year 2017 (through December 31, 2017)**

Vendor	Invoice No.	Amount	Month of Service	Description	Budget Item	Previously Approved
Wallace Group	43235	\$6,056.77	Jan-17	BMC admin services	1	x
Wallace Group	43389	\$1,418.50	Feb-17	BMC admin services	1	x
Wallace Group	43548	\$5,000.41	Mar-17	BMC admin services	1	x
Wallace Group	43783	\$1,500.54	Apr-17	BMC admin services	1	x
Wallace Group	43926	\$5,372.38	May-17	BMC admin services	1	x
Wallace Group	44538	\$1,165.65	Aug-17	BMC admin services	1	x
Wallace Group	44161	\$4,415.88	Jun-17	BMC admin services	1	x
Wallace Group	44325	\$3,729.18	Jul-17	BMC admin services	1	x
Wallace Group	44756	\$3,914.91	Sep-17	BMC admin services	1	x
Wallace Group	44954	\$1,815.00	Oct-17	BMC admin services	1	x
Wallace Group	45140	\$4,696.14	Nov-17	BMC admin services	1	
Wallace Group	TBD	\$839.00	Dec-17	BMC admin services	1	
South Bay Comm. Center	105	\$120.00	Mar-17	Meeting Expenses-Facility Rent	2	x
South Bay Comm. Center	106	\$120.00	May-17	Meeting Expenses-Facility Rent	2	x
South Bay Comm. Center	108	\$120.00	Jul-17	Meeting Expenses-Facility Rent	2	x
South Bay Comm. Center	109	\$120.00	Jun-17	Meeting Expenses-Facility Rent	2	x
South Bay Comm. Center	110	\$120.00	Sep-17	Meeting Expenses-Facility Rent	2	x
AGP	6849	\$675.00	Jan-17	Audio services	3	x
AGP	6912	\$775.00	Mar-17	Video/Audio	3	x
AGP	6981	\$775.00	May-17	Video/Audio	3	x
AGP	7022	\$800.00	Jun-17	Video/Audio	3	x
AGP	7046	\$725.00	Jul-17	Video/Audio	3	x
State Water Resources	RW-1008149	\$837.20	Jan-17	Creek Discharge	9	x
State Water Resources	RW-1012608	\$3,507.00	7/16-6/17	Creek Discharge	9	
Cleath Harris Geologists	20170302	\$3,196.25	Mar-17	Semi-Annual Seawater Intrusion Monitoring	5	x
Cleath Harris Geologists	20170400	\$7,683.01	Apr-17	Semi-Annual Seawater Intrusion Monitoring	5	x
Cleath Harris Geologists	20170504	\$11,990.00	May-17	Annual Report Preparations	6	x
Cleath Harris Geologists	20170503	\$253.00	May-17	Semi-Annual Seawater Intrusion Monitoring	5	x
Cleath Harris Geologists	20170401	\$8,387.50	Apr-17	Annual Report Preparations	6	x
Cleath Harris Geologists	20170904	\$2,210.00	Sep-17	Semi-Annual Seawater Intrusion Monitoring	5	x
Cleath Harris Geologists	20171002	\$11,274.40	Oct-17	Semi-Annual Seawater Intrusion Monitoring	5	x
Cleath Harris Geologists	20171102	\$759.00	Nov-18	Semi-Annual Seawater Intrusion Monitoring	5	
MKN	3548	\$10,197.00	Jul-17	Boundary-Creek Discharge Study	9	x
MKN	3652	\$1,487.50	Aug-17	Boundary-Creek Discharge Study	9	x
MKN	3707	\$7,171.38	Sep-17	Boundary-Creek Discharge Study	9	x
Cleath Harris Geologists	20170303	\$5,212.50	Mar-17	Annual Report Preparations	6	x
WSC	2205	\$1,102.50	Apr-17	Grant Writing	8	x
<b>Total</b>		<b>\$119,542.60</b>				

Not yet approved

**ATTACHMENT 3**

**Current Invoices Subject to Approval for Payment (Warrant List as of December 31, 2017):**

<b>Vendor</b>	<b>Invoice #</b>	<b>Date of Services</b>	<b>Amount of Invoice</b>
Wallace Group	45140	November 2017	\$4,696.14
Wallace Group	TBD	December 2017	\$839.00
SWRCB	RW-1012608	7/16-6/17	\$3,507.00
Cleath Harris Geologists	20171102	November 2017	\$759.00

**TO: Los Osos Basin Management Committee**

**FROM: Rob Miller, Interim Executive Director**

**DATE: November 15, 2017**

**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

As indicated in the September 2017 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 Proposition 1. 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. Staff has engaged in the IRWM process with SLO County for the Los Osos Creek Replenishment and Recharge Project (IRWM Project ID 2017 NT-07). Other grant opportunities for the project are currently limited, and other local communities are relying on local funds and/or loans for pre-construction planning work.

#### Status of Zone of Benefit Analysis

Similar to previous updates, no special tax measure is being pursued by staff to fund BMC administrative or capital costs. This item has been removed from the BMC budget for 2018, which will be discussed in item 7b. Staff’s current approach to capital projects under the Basin Plan Infrastructure Program is to utilize rates and charges to advance the needed projects through the property acquisition, environmental review, and Coastal Development Permit phases, and even through construction if funded by LOCSD.

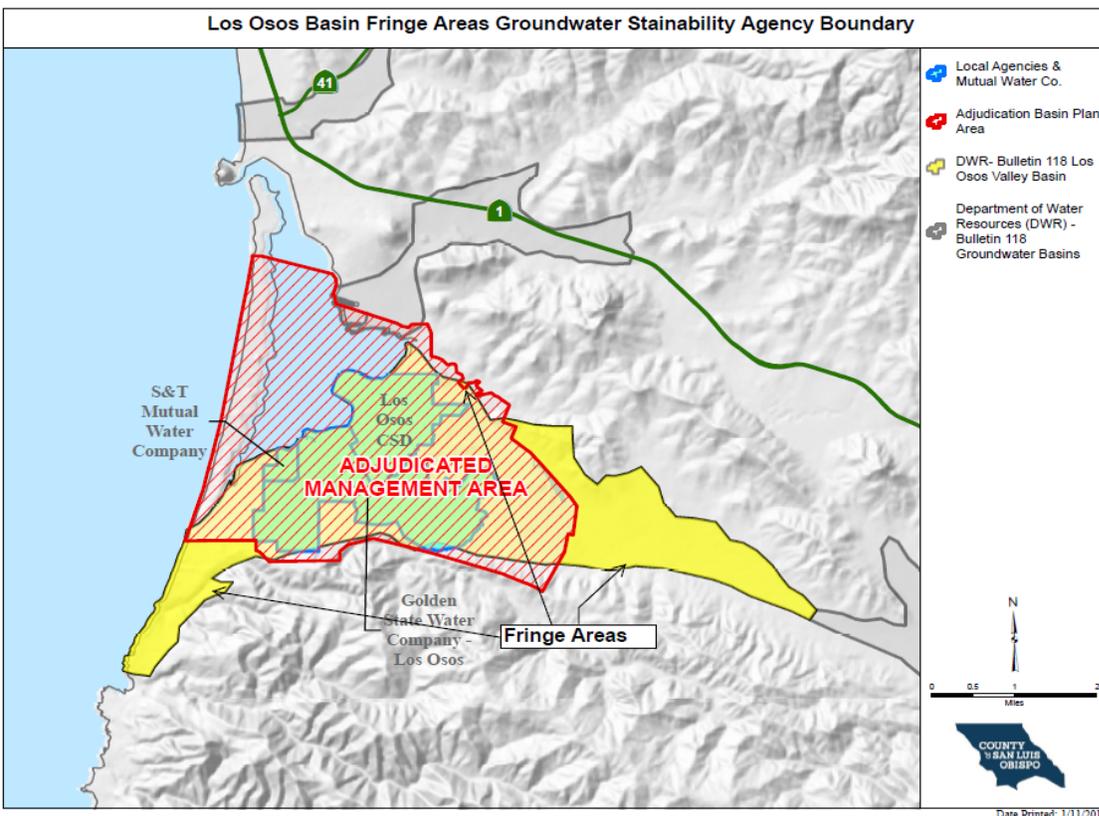
#### Sustainable Groundwater Management Act (SGMA) Compliance and Pending Deadlines

As indicated in the July 2017 update, the Plan Area defined in the Los Osos Basin Plan and approved by the Court is largely exempt from the requirements of SGMA. However, SGMA compliance is currently required in the areas outside of the adjudicated management area, but within the State’s designated basin boundary (i.e., “fringe areas”, see map below).

The State Department of Water Resources (DWR) is responsible for defining basin boundaries, but recognizes that refined scientific data or jurisdictional information may warrant boundary modifications. As such, DWR will periodically open basin boundary modification request periods

for local agencies to submit requests and supporting scientific or jurisdictional information. DWR opened a 6-month request window on January 1, 2018. Local agencies may submit requests by June 30, 2018 for DWR consideration. More information on DWR's process can be found at: < [http://water.ca.gov/groundwater/sgm/basin\\_boundaries.cfm](http://water.ca.gov/groundwater/sgm/basin_boundaries.cfm) >.

On April 4, 2017, the County of San Luis Obispo (County) Board of Supervisors decided to become the Groundwater Sustainability Agency (GSA) for the Los Osos Basin "fringe areas". The GSA's first key steps is understanding the "fringe areas". The County and its consultant, Cleath-Harris Geologists, Inc., are in the process of finalizing a basin characterization study, in order to characterize and develop a hydrogeologic conceptual model of the "fringe areas", and to understand potential boundary modification scenarios. Pending the results of the study, the County Board of Supervisors may consider submitting a basin boundary modification request to the DWR. County staff anticipates seeking the County Board of Supervisors' authorization to initiate the basin boundary modification process in March 2018. Pending Board action, County staff will engage basin users and water purveyors in the process through a community meeting, seek letters of support from each water purveyor, and develop a boundary modification request package for DWR. To stay informed on this SGMA process, stakeholders can join the email list by visiting: < [www.slocountywater.org/sgma](http://www.slocountywater.org/sgma) >.



### Los Osos Wastewater Project Flow and Connection Update

Staff plans to provide periodic updates on the status of connections and flows from the LOWWP. The following is an update on the status:

- As of 1/1/18, 95% of the lateral connections have been completed, an increase of 23 connections since last meeting.
- Of the 214 unconnected properties, 79 are waiting for the County/USDA/LOCSA low-income grant program to pay for their connection leaving 135 properties that may require enforcement. Of the 135 properties, 46 are in the process of connecting (ie: obtained a building permit), and 21 have responded to the County's survey giving reasons why they are not connected yet. Subtracting those categories leaves 68 properties (1.6% of 4200 total connections) that are the focus of the Code enforcement process.
- The County had to cancel the Nov. 7 BOS meeting regarding enforcement. The County plans to go back to the Board with a County Code Amendment in a month or two. The intent is to strengthen our legal position regarding the enforcement process.
- Influent flows into the treatment facility are peaking at 0.48 mgd.
- Effluent is being disposed at both Broderson and Bayridge leachfields. Last calendar year's (1/1/17 through 12/31/17) effluent disposal totaled 445 AFY to Broderson and 7.2 AFY to Bayridge leachfields.
- No recycled water has been delivered to irrigation customers to date, but final negotiations are ongoing.

#### Monitoring Well Project Update

The Committee approved Cleath-Harris' contract at the September 20, 2017 BMC meeting. Staff is currently working on fine tuning the monitoring well location. The current proposed location will be discussed with item 7a.

#### Option to Bring Morro Bay Wastewater to Los Osos WWRF

Similar to staff's last update, it was determined that both summer and winter peak day flows at the City of Morro Bay are expected to exceed the available capacity in the Los Osos Wastewater Reclamation Facility, and therefore an expansion would be required to accommodate the higher flows. A number of peak day flows of over 3 mgd have been observed at the existing Morro Bay facility. Additional information on the Morro Bay project can be found here: <http://morrobaywrf.com/>.

**TO: Los Osos Basin Management Committee**

**FROM: Rob Miller, Interim Executive Director**

**DATE: January 17, 2018**

**SUBJECT: Item 7A. – 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 four parts, designated Programs A through D. 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. The following Table provides an overview of status of the Projects that are currently moving forward or have been completed. A schedule of the active projects is also provided to support the discussion in the Table.

As indicated in the July 2017 BMC meeting, the LOCSD has implemented new water rates intended to provide net revenue for capital funding over the next three fiscal years as follows:

- FY 17/18: \$500,000

- FY 18/19: \$700,000
- FY 19/20: \$900,000

These rates will be sufficient to fully fund the District's portion of all Program A and C projects, either using debt service or pay-as-you-go. Additional cooperative funding approaches with other BMC members could also be considered for Expansion Well No. 3 or other program elements.

<b>Project Name</b>	<b>Parties Involved</b>	<b>Funding Status</b>	<b>Capital Cost</b>	<b>Status</b>
<b>Program A</b>				
Water Systems Interconnection	LOCSD/ GSWC	Completed		
Upper Aquifer Well (8 <sup>th</sup> Street)	LOCSD	Fully Funded	\$250,000	Well was drilled and cased in December 2016. Budget remaining \$250,000 to equip the well. Design RFP was issued in April, and a consultant was retained in June 2017. Amended design contract was approved by the LOCSD Board in December.
South Bay Well Nitrate Removal	LOCSD	Completed		
Palisades Well Modifications	LOCSD	Completed		
Blending Project (Skyline Well)	GSWC	Fully Funded	Previously funded through rate case	No change since last update: The Rosina Nitrate Unit was brought on-line on October 9, 2017, and it is producing 160 gallons per minute of treated water.
Water Meters	S&T	Completed		
<b>Program B</b>				
LOCSD Wells	LOCSD	Not Funded	BMP: \$2.7 mil	Project not initiated
GSWC Wells	GSWC	Not Funded	BMP: \$3.2 mil	Project not initiated
Community Nitrate Removal Facility	LOCSD/GSWC	Partial	First phase combined with GSWC Program A	GSWC's Program A Blending Project allows for incremental expansion of the nitrate facility and can be considered a first phase in Program B.
<b>Program C</b>				
Expansion Well No. 1 (Los Olivos)	GSWC	Completed		

<b>Project Name</b>	<b>Parties Involved</b>	<b>Funding Status</b>	<b>Capital Cost</b>	<b>Status</b>
Expansion Well No. 2	GSWC/LOCSD	Cooperative Funding	BMP: \$2.0 mil	Property acquisition phase is on-going through efforts of LOCSD. Three sites are currently being reviewed, and all appear to be viable for new east side lower aquifer wells, Environmental studies were initiated in December 2016 for expansion well #2.
Expansion Well 3 and LOVR Water Main Upgrade	GSWC/LOCSD	Cooperative Funding	BMP: \$1.6 mil	Property acquisition phase is on-going through efforts of LOCSD.
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	Conceptual design
<b>Program M</b>				
New Zone D/E lower aquifer monitoring well in Cuesta by the Sea	All Parties	Funded through BMC Budget	\$115,000 (2018 BMC Budget Item 9)	Cleath-Harris scope was approved in September 2017 meeting, and site selection is underway. We are currently in the process of completing a siting study, see figure on Page 6 of this staff report. We are coordinating with County Public Works to discuss access and other ROW issues.





**Program M:  
Lupine Street  
Monitoring Well  
Site Location**

**TO: Los Osos Basin Management Committee**

**FROM: Rob Miller, Interim Executive Director**

**DATE: January 17, 2018**

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

### **Recommendations**

Staff recommends that the Committee adopt the Calendar Year 2018 budget as drafted.

### **Discussion**

Section 5.13.2 of the Stipulated Judgment requires that the parties develop an annual budget to fund its activities. Staff has prepared a draft budget (attached), which includes the following key items:

- Basin Management Committee general administration for Calendar Year 2018, including venue and meeting expenses. In general, these items were under budget in 2017.
- As requested by the Committee in November 2017, a budget line item has been added for additional basin modeling to determine if the Basin Infrastructure Program assets are performing consistent with expectations, and to determine if any changes should be considered. A scope of work and proposal for such services will be considered at the next BMC meeting, pending approval of the suggested budget allocation.
- Consultant services for the preparation of the Annual Report, including monitoring. Note that the total cost of items 5 and 6 total \$56,000. This allocation is similar to 2017, with a 12% increase to account for additional technical analysis in response to comments from the last annual report.
- Consultant services to assist in the pursuit of grants
- Additional studies regarding recycled water recharge in Los Osos Creek
- Installation of a new monitoring well in Cuesta by the Sea.
- Jointly pursued water conservation efforts
- The Proposition 218 budget line item, along with the related legal expenses, has been removed from the calendar year 2018 budget. If necessary, this item could be reinstated at a subsequent meeting.

Given that the parties operate on different fiscal calendars, staff believes a standard calendar year to be the appropriate budget interval. In calendar year 2017, approximately 42% of the adopted budget of \$290,400 was expended. The reduced amount was primarily due to the Committee's feedback on an administrative special tax, which did not move forward due to perceived lack of voter support. In 2018, staff anticipates that much of the budget will be expended due to the cost of the proposed monitoring well

**Financial Considerations**

The total budget proposed for 2017 is \$294,800. The budget also includes a 10% contingency for unforeseen expenses. The estimated cost to each party is summarized as follows:

LOCSD (38%): \$112,024

GSWC (38%): \$112,024

County of SLO (20%): \$58,960

S&T Mutual (4%): \$11,792

**Table 1: BMC 2018 Budget for 12 month period, allocated by fiscal year**

Item	Description	Cost	Projected Total in LOCS D FY 2017/18	Projected Total in LOCS D FY 2018/19	Comments
1	Monthly meeting administration, including preparation, staff notes, and attendance	\$50,000	\$25,000	\$25,000	Assumes 20 to 25 hours per month, on average
2	Meeting expenses - facility rent (if SBCC needed for larger venue)	\$1,000	\$500	\$500	\$30/hr for non-profit
3	Meeting expenses - audio and video services	\$6,000	\$3,000	\$3,000	
4	Adaptive Management - Groundwater Modeling	\$10,000	\$10,000	\$0	
5	Semi annual seawater intrusion monitoring	\$26,400	\$26,400	\$0	
6	Annual report - not including Year 1 start up costs	\$29,600	\$29,600	\$0	Not including services contributed directly from BMC member staff
7	Grant writing (outside consultant)	\$5,000	\$3,000	\$2,000	BMC member staff may also contribute to grant efforts
8	Creek Recharge and Replenishment Studies	\$15,000	\$5,000	\$10,000	Grant pursuit, additional baseline modeling
9	Cuesta by the Sea monitoring well	\$115,000	\$40,000	\$75,000	Well ownership to be determined prior to construction
10	Conservation programs (not including member programs)	\$10,000	\$5,000	\$5,000	Bulk of cost will be budgeted by individual BMC members
	Subtotal	\$268,000			
	10% Contingency	\$26,800	\$14,000	\$12,800	
	<b>Total</b>	<b>\$294,800</b>	<b>\$161,500</b>	<b>\$133,300</b>	
	LOCS D (38%)	\$112,024	<b>\$61,370</b>	<b>\$50,654</b>	
	GSWC (38%)	\$112,024			
	County of SLO (20%)	\$58,960	\$32,300	\$26,660	
	S&T Mutual (4%)	\$11,792			

**TO:** Los Osos Basin Management Committee

**FROM:** Rob Miller, Interim Executive Director

**DATE:** January 17, 2018

**SUBJECT:** Item 7c: Approval of Proposals for Hydrogeologic Services for Calendar Year 2018, 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 2018, to be provided by Cleath Harris Geologists, in an amount not to exceed \$56,000, and contingent on the approval of the 2018 budget by the Committee (Agenda Item 7b) and approval of the 2018 BMC budget by each of the member Boards.

### **Discussion**

Item 7b on this month's agenda discusses the working budget for the calendar year 2018 BMC Committee. The budget included the following two line items that relate to groundwater monitoring:

- Budget Item 5: Annual seawater intrusion monitoring: \$26,400
- Budget Item 6: Annual report: \$29,600
- Total: \$56,000

The above two items are addressed in the attached proposals from Cleath Harris Geologists (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 7b 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 Cleath Harris Geologists.

### **Financial Considerations**

The draft Committee budget for calendar year 2018 includes specific line items for the proposed work as described above.

Cleath-Harris Geologists, Inc.  
71 Zaca Lane, Suite 140  
San Luis Obispo, California 93401  
(805) 543-1413



January 4, 2018

Los Osos Basin Management Committee  
c/o Mr. Rob Miller, P.E.  
Wallace Group  
612 Clarion Court  
San Luis Obispo, CA 93402

**SUBJECT: Proposal for 2017 Annual Monitoring Report for the Los Osos Groundwater Basin.**

Dear Mr. Miller:

Cleath-Harris Geologists (CHG) proposes to perform hydrogeologic services related to completing the 2017 Annual Monitoring Report for the Los Osos Basin Plan (LOBP) Groundwater Monitoring Program. This proposal presents a scope of work, schedule, and the estimated costs for these services.

### **Scope of Work**

The scope of work has been separated into annual report tasks and additional studies. The additional studies address specific recommendations or comments based on the prior year reporting. The purpose of separating the tasks is to assist with budget projections.

Annual report tasks include:

- Update databases with 2017 groundwater level and quality data for LOBP monitoring network wells.
- Prepare the draft 2017 Annual Monitoring Report for Basin Management Committee (BMC) review. The report will include data reporting and interpretation for the period from January 1 through December 31, 2017. The report shall follow the 2016 Annual Monitoring Report format as a template, with updates to content for changed conditions.
- Receive BMC comments and incorporate into a final 2017 Annual Monitoring Report.
- Assist BMC with preparing CASGEM datasets.



Tasks for additional studies associated with prior year recommendations and comments include:

- Perform a sensitivity analysis to evaluate the potential range of error associated with groundwater storage estimates and change in groundwater storage estimates to support future data interpretation.
- Evaluate potential effects on the Nitrate Metric from changes to the LOWRF Groundwater Monitoring program schedule.
- Prepare and calibrate a soil moisture budget using evapotranspiration data from the closest CIMIS Station (Station 160 - San Luis Obispo West) and precipitation from the closest rain gage (Station 727 - Los Osos Landfill) to provide applied irrigation estimates that respond to annual variations in climate.

### **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 proposed to perform the above scope of work on an hourly rate plus expenses basis in accordance with the attached terms of fees and conditions and the hourly rate schedule listed below. The estimated cost for hydrogeologic services to complete annual tasks is estimated at \$24,600, and to complete one-time tasks is \$5,000; total costs for 2017 Annual Report preparations is **\$29,600**.



### **SCHEDULE OF HOURLY RATES**

Principal Hydrogeologist	\$ 150
Senior Hydrogeologist	\$ 140
Project Geologist	\$ 125
Environmental Scientist	\$ 110
GIS Specialist	\$ 110
Staff Geologist Level II	\$ 110
Staff Geologist Level I	\$ 95

### **EXPENSES**

Mileage \$0.54/mile  
Other expenses at cost plus 10 percent handling.

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

Cleath-Harris Geologists, Inc.

Spencer J. Harris, Vice President



## **SCHEDULE OF FEES AND CONDITIONS**

- Invoices will be submitted monthly. The invoice is due and payable upon receipt.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.

Cleath-Harris Geologists, Inc.  
71 Zaca Lane, Suite 140  
San Luis Obispo, California 93401  
(805) 543-1413



January 4, 2018

Los Osos Basin Management Committee  
c/o Mr. Rob Miller, P.E.  
Wallace Group  
612 Clarion Court  
San Luis Obispo, CA 93402

**SUBJECT: Proposal for Los Osos Basin Plan 2018 Groundwater Monitoring.**

Dear Mr. Miller:

Cleath-Harris Geologists (CHG) proposes to provide 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 the estimated costs for hydrogeologic services to complete the semi-annual LOBP monitoring program recommendations, including semi-annual seawater intrusion monitoring.

## **Background**

The groundwater monitoring program in Chapter 7 of the LOBP includes 73 monitoring well locations within the basin. Twelve additional wells with monitoring data have been added to the LOBP network.

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 LOBP 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 2018 at LOBP network wells that overlap with the LOWRF program. Water quality testing, however, will not be duplicated in the schedule, and data from LOWRF monitoring in June and December 2018 will be used for reporting purposes.

A nested monitoring well cluster is planned for completion in the Cuesta-by-the-Sea area during 2018. The new well cluster should be ready for sampling during the October 2018 monitoring event.



## **Scope of Work**

CHG will perform the following tasks for the LOBP groundwater monitoring program, per the attached tables.

- Conduct/coordinate semi-annual water level monitoring in April and October 2018 at up to 37 locations.
- Download and process pressure transducer data at up to 8 wells.
- Conduct/coordinate groundwater sampling in April 2018 from up to 11 wells for general mineral analyses.
- Conduct/coordinate groundwater sampling in October 2018 from up to 19 wells for general mineral analyses, including the new monitoring well cluster planned for completion in 2018.
- Conduct groundwater sampling in October 2018 from up to two wells for CEC's analyses, include two equipment blanks and one travel blank.

## **Deliverables**

Tables with results of water level and water quality monitoring will be provided upon completion of the April and October 2018 monitoring events. Data interpretation and reporting is not included in this scope of work, but will be performed during 2018 Annual Report preparations.

## **Schedule**

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

## **Fees and Conditions**

CHG proposed to perform the above scope of work on an hourly rate plus expenses basis in accordance with the attached terms of fees and conditions and the hourly rate schedule listed below. Laboratory analytical services, pump equipment, and CEC sample shipping are estimated at \$8,400. The cost for hydrogeologic services related to water level monitoring, groundwater sampling, transducer downloading, and coordination with private well owners is estimated to be \$18,000. The total cost for the 2018 groundwater monitoring scope of work is estimated at **\$26,400**.



### **SCHEDULE OF HOURLY RATES**

Principal Hydrogeologist	\$ 150
Senior Hydrogeologist	\$ 140
Project Geologist	\$ 125
Environmental Scientist	\$ 110
GIS Specialist	\$ 110
Staff Geologist Level II	\$ 110
Staff Geologist Level I	\$ 95

### **EXPENSES**

Mileage \$0.54/mile  
Other expenses at cost plus 10 percent handling.

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

Cleath-Harris Geologists, Inc.

Spencer J. Harris, Vice President



## **SCHEDULE OF FEES AND CONDITIONS**

- Invoices will be submitted monthly. The invoice is due and payable upon receipt.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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 2018  
FIRST WATER**

Program Well ID	Well Owner	Basin Plan Monitoring Code	County Water Level Program	LOWRF Groundwater Monitoring Program <sup>1</sup>	2018 Basin Plan Monitoring Program <sup>2</sup>
FW1	PRIVATE	L			L
FW2	LOCS	L, G		L, G	L
FW3	LOCS	L		L	L
FW4	LOCS	L		L	L
FW5	LOCS	L		L	L
FW6	LOCS	TL, G, CEC		G	TL, CEC
FW7	LOCS	L			L
FW8	LOCS	L		L	L
FW9	LOCS	L		L	L
FW10	LOCS	TL, G		G	TL
FW11	LOCS	L		L	L
FW12	LOCS	L		L	L
FW13	LOCS	L		L	L
FW14	PRIVATE	L		L	L
FW15	LOCS	L, G		L, G	L
FW16	LOCS	L		L	L
FW17	LOCS	L, G		L, G	L
FW18	SLCUSD	L			L
FW19	LOCS	L		L	L
FW20	LOCS	L, G		L, G	L
FW21	LOCS	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		
FW29 <sup>3</sup>	PRIVATE	L	L		
FW30 <sup>3</sup>	PRIVATE	L		L	L
FW31 <sup>3</sup>	LOCS	L			L

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

**LOCS = Los Osos Community Services District  
SLCUSD = San Luis Coastal Unified School District**

**NOTES:**

- 1 - Summer and winter monitoring schedule
- 2 - Spring and fall monitoring schedule
- 3 - Well added to LOBP program

**Los Osos Basin Plan  
Monitoring Well Network 2018  
UPPER AQUIFER**

Program Well ID	Well Owner	Basin Plan Monitoring Code	County Water Level Program	LOWRF Groundwater Monitoring Program <sup>1</sup>	2018 Basin Plan Monitoring Program <sup>2</sup>
UA2	SLO CO.	L	L		
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 <sup>3</sup>	PRIVATE	L	L		
UA17 <sup>3</sup>	PRIVATE	L	L		
UA18 <sup>3</sup>	PRIVATE	L	L		
UA19 <sup>4</sup>	SLO CO.	L			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
- 3 - Well added to LOBP program
- 4 - New monitoring well planned

**Los Osos Basin Plan  
Monitoring Well Network 2018  
LOWER AQUIFER**

Program Well ID	Well Owner	Basin Plan Monitoring Code	County Water Level Program	2018 Basin Plan Monitoring Program
LA2	SLO CO.	L	L	
LA3	SLO CO.	L	L	
LA4	PRIVATE	L, GL		L
LA5	S&T	L	L	
LA6	GSWC	L, G <sup>1</sup>	L	
LA7	PRIVATE	TL		TL
LA8	S&T	L, G		L, G
LA9	GSWC	L		L, G <sup>2</sup>
LA10	GSWC	L, G		L, G
LA11	SLO CO.	L, G		L, G
LA12	LOCS D	L, G		L, G
LA13	LOCS D	TL		TL
LA14	SLO CO.	L	L	
LA15	LOCS D	L, G		L, G
LA16	PRIVATE	L	L	
LA17	SLO CO.	L	L	
LA18	LOCS D	L, G		L, G
LA19	SLO CO.	L	L	
LA20	GSWC	L, G		L, G
LA21	LOCS D	L	L	
LA22	LOCS D	L	L	G <sup>2</sup>
LA23	PRIVATE	L, G		L, G
LA24	PRIVATE	L	L	
LA25	PRIVATE	L		L
LA26	PRIVATE	L	L	
LA27	PRIVATE	TL		TL
LA28	PRIVATE	L, G		L, G
LA29	PRIVATE	L	L	
LA30	PRIVATE	L, G		L
LA31 <sup>3</sup>	PRIVATE	G		G
LA32 <sup>3</sup>	LOCS D	G		G
LA33 <sup>3</sup>	PRIVATE	L		L
LA34 <sup>3</sup>	SLO CO.	L	L	
LA35 <sup>3</sup>	SLO CO.	L		L
LA36 <sup>3</sup>	PRIVATE	L		L
LA37 <sup>4</sup>	SLO CO.	L, G		L, G

**L = WATER LEVEL**

**G = GENERAL MINERAL**

**GL = GEOPHYSICAL LOG (2018)**

**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**

**NOTES:**

**1 - Remove G from LA6 - out of service.**

**2 - Add G to LA9 and LA22**

**3 - Well added to LOBP program**

**4 - New monitoring well planned**

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

**TO: Los Osos Basin Management Committee**

**FROM: Rob Miller, Interim Executive Director**

**DATE: January 17, 2018**

**SUBJECT: Item 7d – Water Conservation Program Update**

### **Recommendations**

Received update and provide input to staff for future action.

### **Discussion**

In November 2016, the BMC reviewed and endorsed an Addendum to the Water Conservation Implementation Plan for the Los Osos Wastewater Project. The document can be found at the following web address:

[http://slocountywater.org/site/Water%20Resources/LosOsos/pdf/WCIP\\_Addendum%201\\_rev.pdf](http://slocountywater.org/site/Water%20Resources/LosOsos/pdf/WCIP_Addendum%201_rev.pdf)

In June 2017, the County approved a subset of the BMC rebate programs intended for properties connect to the Los Osos Wastewater Project as shown on the attached summary (Exhibit A). Two of the BMC's recommended measures are not included in the staff recommendation. These are the septic tank repurposing program (BMC Outdoor 1) and the Low Impact Development Landscape measure (BMC Outdoor 4). While both measures are reasonable elements of a community water conservation program, they are not recommended for inclusion in the County's efforts because there is no clear nexus between the wastewater project and the reduction of outdoor irrigation using potable water supplies. On June 20, 2017, the County submitted the measures in Exhibit A to the Executive Director of the California Coastal Commission. In November 2017, the County received approval for the rebates and is now prepared to issue them. During the meeting, staff will bring forward ideas for outreach consistent with the Committee's previous discussion including:

1. Direct mail campaign to eligible customers using a summary post card. A sample from the County's Nipomo/Paso Robles program is attached.
2. Evening meeting to explain the rebates and benefits, with the schedule to be discussed
3. Leverage conservation expertise and resources at Golden State Water Company, including familiarity with specific fixtures and equipment.

Based on the input at the November 2017 meeting, staff is not planning on forming a formal committee for the outreach effort.

### Title 19 Status

As described in the March 2017 BMC meeting, Title 19 retrofits are pursued by private parties in order to facilitate development within the community. In recent years, the County has found that minimal retrofit opportunities are available through pre-approved measures with published values for water savings. This situation primarily impacts new development that is either

outside of the prohibition zone, or not subject to Special Condition 6 of the Los Osos Wastewater Project's Coastal Development Permit. The County currently considers retrofits on a case by case basis, including the installation of high-efficiency clothes washers. Since such retrofits are expected to continue irrespective of rebate funding, BMC ased staff will continue to communicate with County Planning regarding the potential inclusion of measures from the Addendum to the Water Conservation Implementation Plan within an updated version of Title 19.

**EXHIBIT A**

<b>Water Conservation Implementation Plan, Los Osos Wastewater Project Proposed Rebate Program</b> <i>changes in italics</i>			
Measures Required for Connection to the Wastewater System			
<i>Fixture or Appliance</i>	<i>Existing Fixture Flow Rate</i>	<i>New Fixture Flow Rate Eligible for Rebate</i>	<i>Rebates</i>
Toilets Residential & Commercial	Greater than 1.6 gpf	1.28 gpf or less	\$250
Showerheads Residential & Commercial	Greater than 2.0 gpm	1.5 gpm or less	\$40
Faucet Aerators Residential	Greater than 1.5 gpm	1.5 gpm or less	\$5
Faucet Aerators Commercial	Greater than 0.5 gpm	0.5 gpm	\$5
Urinals Commercial	Greater than 1.0 gpf	0.5 gpf or less	\$500
Pre-rinse Spray Valves Commercial	Greater than 1.15 gpm	1.15 gpm or less	N/A
Optional Measures Eligible for Rebates (Requires Connection to the Wastewater System and Compliance with Above Measures)			
Toilets Residential & Commercial	Equal to 1.6 gpf	<del>1.0</del> 1.28 gpf or less	\$250
Washers Residential & Commercial	Less than Tier 3, Water Factor 4	Tier 3, Water Factor 4 or Less	<del>\$150</del> \$450 (1)
<i>Hot Water Recirc System Residential &amp; Commercial</i>	<i>N/A</i>	<i>N/A</i>	<i>\$350</i>
<i>Showerheads Residential &amp; Commercial</i>	<i>1.5 gpm or more</i>	<i>Less than 1.5 gpm</i>	<i>\$40</i>
<i>Complete Gray Water System</i>	<i>N/A</i>	<i>N/A</i>	<i>\$500</i>
<i>Laundry only Gray Water System</i>	<i>N/A</i>	<i>N/A</i>	<i>\$50</i>
<i>Recycled Water Irrigation Commercial &amp; Institutional</i>	<i>N/A</i>	<i>N/A</i>	<i>negotiated</i>
Alternative Measures	1.28 gpf toilet 1.5 gpm showerhead 1.5 gpm faucet aerators	Needs prior approval	\$300

gpf = gallons per flush  
gpm = gallons per minute

NOTES: (1) Rebate not retroactive to prior

Nipomo Water Conservation Area & Paso Robles Groundwater Basin

# Water Conservation Programs

## CASH FOR GRASS

**Rebate for homeowners seeking to re-landscape turf areas.**

- Rebate up to \$6,000
- Accepting artificial turf
- Must include 10% of living plants

**Reembolso para propietarios que buscan re-paisajear áreas de césped.**

- Reembolso hasta \$6,000
- Estamos aceptando césped artificial
- Debe incluir el 10% de las plantas vivas

New!



## Washer Rebate Program

**Rebate for homeowners to remove inefficient washers.**

- \$250 rebate
- Old washer must save at least 15 gallons per day
- New washer must have integrated water factor of 3.2 or less (Energy Star)

**Reembolso para que los propietarios eliminen lavadoras ineficientes.**

- Reembolso hasta \$250
- Lavadora vieja debe ahorrar al menos 15 galones por día
- La nueva lavadora debe tener un factor de agua integrado de 3.2 o menos (Energy Star)

## Plumbing Retrofit Program

**Free replacement of high water use plumbing fixtures.**

- Low-flow toilets
- Showerheads
- Faucet aerators

**Reemplazo gratuito de los accesorios de plomería de alto uso de agua.**

- Sanitarios de bajo flujo
- Cabezales de ducha
- Aireadores de la llave de agua

Nipomo Water Conservation Area  
& Paso Robles Groundwater Basin  
**Water Conservation Programs**



**To see if you qualify/Para ver si califica:**

**Website:** [SLOCountywwcp.org](http://SLOCountywwcp.org)

**Phone:** 805-781-1391

**Email:** [waterprograms@co.slo.ca.us](mailto:waterprograms@co.slo.ca.us)

TO: Los Osos Basin Management Committee

FROM: Mark Hutchinson, Deputy Director of Public Works

DATE: January 17, 2018

SUBJECT: Item 7e - Update on Recycled Water Agreements for Agricultural Users

### Introduction

The Stipulated Judgment includes the following regarding the use of recycled water for agricultural irrigation:

*“If an agricultural user desires to purchase recycled water from the LOWWP, it may do so on such terms and conditions as the County (or the then current owner of the LOWWP) shall determine from time to time, subject to review and comment by the Basin Management Committee.”*

This report describes the background, status, intended benefits, and next steps for the agricultural recycled water delivery agreements. The Basin Management Committee may wish to provide comments to the Board of Supervisors regarding the information provided in this update.

### Background

In 2009, when it was first proposed, the Los Osos Wastewater Project relied on secondary treatment of wastewater followed by spray irrigation on grazing lands as the method for disposal of treated effluent. As the project progressed through the Coastal Development Permit process at the County Planning Commission level, the treatment level was raised from secondary to tertiary at the “unrestricted reuse” level. At the same time the County agreed to reserve 10% of the now high-quality recycled water for agricultural uses, given that the revised project location was on a parcel designated for agriculture with active agriculture on adjacent parcels. The reservation for agricultural uses was included in a revised project description and formalized in the project’s conditions of approval *“Total agricultural re-use shall not be less than 10% of the total treated effluent”*. The project then moved through appeals to the Board of Supervisors and the California Coastal Commission with both tertiary treatment and a 10% reservation for agriculture as part of the project description (there is also a 10% reservation for environmental purposes). In addition, and because of the change in the treated water disposal method, funding agencies required assurance that the new plant would be able to reach full operation. That is, confidence that a lack of suitable reuse sites and methods would not reduce the ability of the

project to operate at full capacity. In response, recycled water agreements were negotiated with agricultural users and the school district.

### Current Status

The Los Osos Wastewater Project has entered into four agricultural recycled water delivery agreements (Three fully executed and one pending Board of Supervisors action) as shown in the table below. The total subscribed amount is 81 acre-feet, or approximately 16% of the current recycled water output of the water reclamation facility. No recycled water has been delivered to agricultural users to date. However, deliveries are anticipated to begin in summer 2018, pending issuance of the Recycled Water Permit by the Regional Water Quality Control Board. The amount of water delivered is dependent on the agreements, use site needs, and action by the recycled water users to complete the end user requirements for the Recycled Water Permit.

<b>Contractor</b>	<b>Assessor Parcel Number</b>	<b>Annual Amount in Acre-Feet</b>
May	074-225-021	5
Goodwin	074-225-019	10
Judge	067-171-085	50
Michener	074-225-022	16
<b>Total Amount</b>		<b>81</b>

### Benefits of Agricultural Reuse

The agricultural reuse component has four clear benefits for the Los Osos Wastewater Project:

#### *Permit and Funding Compliance*

At the most basic level, the delivery of water to agricultural operations ensures that the project will remain in compliance with its Coastal Development Permit and with the spirit and intent of its funding agreements. The importance of operating the project in compliance with these requirements cannot be over-stated. The consequences of failing to fulfill obligations to regulatory and funding agencies can not only impact the Los Osos project but, because these obligations are understood to be agency-agency partnerships, can also impact the County's ability to develop and fund other projects for the benefit of Los Osos and other communities throughout the County.

#### *Operational Flexibility*

All wastewater treatment facilities operate with a common constant: the flow of wastewater will not stop regardless of any operational issues with the treatment plant. Consequently, wastewater treatment operations must have operational redundancy, emergency storage, and multiple options to respond to unforeseen situations. These

requirements extend to reuse options for treated effluent in both the short and long terms. The Los Osos facility has ample on-site treated effluent storage, a 4x safety factor at the Broderson leach field, agricultural recycled water delivery agreements, and is moving forward with urban reuse agreements. Because future conditions cannot be fully predicted, maintaining the full spectrum of reuse options is important to the continued operational resilience of the facility.

### *Project Integrity*

The Los Osos Wastewater Project has entered into recycled water delivery agreements with four area farmers. These individuals have planned their future business operations, and to some degree have invested in on-site infrastructure, looking forward to delivery of recycled water. Although the agreements contain provisions that would allow the project to cancel the agreements with six months' notice, the status of recycled water reuse within the community does not warrant invoking this provision. The current volume of recycled water produced by the plant is estimated at 500 acre-feet/year, growing to 550 AFY in the near term (2 years). With full urban reuse (less than 100 acre-feet/year including the golf course) and agricultural agreements totaling 81 acre-feet/year, the current and near-term amount of recycled water is sufficient to supply the agricultural users, all urban reuse options, potential environmental needs (Bayridge at 33 acre-feet per year), and still provide flows to the Broderson leach field.

### *Foundation for Future Water Supply Options*

During development of the Los Osos project the concept of exchanging recycled water for groundwater currently being used by the farmers along Los Osos Creek was proposed as a method to supplement the community's water supply. However, these farmers have been reluctant to utilize recycled water given the abundant supply of groundwater and uncertainties surrounding the quality of the recycled water. The current agricultural recycled water delivery agreements are intended in part to demonstrate the real-world potential of recycled water for commercial agricultural irrigation. If successful, the program has the potential to facilitate future water supply agreements between farmers and the community.

## Moving Forward

Current efforts to deliver recycled water include:

- Finalize the recycled water permit through the Regional Water Quality Control Board
- Execute recycled water agreements with Golden State Water Company, the Los Osos Community Service District, and Sea Pines Golf Course
- Amend the Tri-Party Agreement among the County, Monarch Grove and Sea Pines Golf Course to change the source of recycled water
- Transfer 1 Agricultural Recycled Water Delivery Agreement to a new owner

- Finalize 1 previously negotiated Agricultural Recycled Water Delivery Agreement
- Establish a construction water program using recycled water (in lieu of potable water)
- Support “end users” as they prepare the necessary permit documents and modify current irrigation systems to meet recycled water requirements
- Formalize a recycled water line easement along Blue Heron Lane

Although these efforts are both complex and time consuming, recycled water should be flowing to end users over the Los Osos Groundwater Basin by the summer of 2018.

File: 310.87.04 LOWWP Los Osos Wastewater Project - General

Reference: