

Julie Kennedy, President
Lisa Palmer, Vice President
Tom Fayram, Director
Greg Parks, Director
Nina Stormo, Director



**LOS OLIVOS COMMUNITY SERVICES DISTRICT
TECHNICAL SUBCOMMITTEE MEETING**

Posted: 7-24-2024

July 30, 2024 – 8:30 AM

**St Mark's in the Valley Episcopal Church
2901 Nojoqui Ave, Los Olivos CA 93441**

Please observe decorum and instructions from the Subcommittee Chair

Subcommittee Members: Director Fayram (Chair), Directors Parks, and General Manager Guy Savage

This meeting will be held both in-person and electronically via Zoom Meetings. In-person the meeting will be held at the following locations:
St Mark's in the Valley Episcopal Church, 2901 Nojoqui Ave, Los Olivos CA 93441

The public will also be able to hear and participate electronically via Zoom by using the following links:

Zoom: <https://us06web.zoom.us/j/81937722522?pwd=SWpSU0RYZFliZTBLNGphZG41TGs4dz09>
By Phone: +1 669 900 6833 US (San Jose) Meeting ID: 819 3772 2522 Passcode: 914085
One tap mobile: +14086380968,,81937722522#,,,,*914085# US (San Jose)

The Los Olivos Community Services District is committed to ensuring equal access to meetings. In compliance with the American Disabilities Act, if you need special assistance to participate in the meeting or need this agenda provided in a disability-related alternative format, please call 805.500.4098 or email to losolivoscscsd@gmail.com. Any public records, which are distributed less than 72 hours prior to this meeting to all, or a majority of all, of the District's Board members in connection with any agenda item (other than closed sessions) will be available for public inspection at the time of such distribution at a location to be determined in Los Olivos, California 93441.

MEETING AGENDA

1. CALL TO ORDER

2. ROLL CALL

3. PUBLIC COMMENTS

Members of the public may address the Subcommittee on any items of interest within the subject matter and jurisdiction of the Board but not on the agenda today (Gov. Code - 54954.3). The public may also request future agenda topics at this time. Speakers are limited to a maximum of 3 minutes. Due to the requirements of the Ralph M. Brown Act, the Subcommittee cannot take action today on any matter not on the agenda, but a matter raised during Public Comments can be referred to District staff for discussion and possible action at a future meeting.

ADMINISTRATIVE ITEMS:

All matters listed hereunder constitute an administrative / consent agenda and will be acted upon by a single vote of the Board. Matters listed on the Consent Agenda will be read only on the request of a member of the Subcommittee, in which event the matter may be removed from the Consent Agenda and considered as a separate item. Public may comment on any of the items prior to the vote being taken by the Subcommittee.

4. CONSENT AGENDA

A. MINUTES APPROVAL

Approval of the minutes from June 28, 2024.

BUSINESS ITEMS:

All matters listed hereunder will be acted upon separately and public comment will be held for each item. As a Subcommittee of the full Board of Directors, Business Items may include one or more recommendations for further

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losolivoscscsd@gmail.com, www.losolivoscscsd.com

discussion or action at a full Board of Directors meeting.

5. DISCUSSION RELATED TO THE UPCOMING AUGUST 21, 2024 COMMUNITY WORKSHOP ON COLLECTION AND TREATMENT OPTIONS

The Subcommittee will discuss the upcoming August 21, 2024 workshop and potential content for the workshop. The General Manager will provide an update on actions already taken. He will also seek input from the Subcommittee on areas he still needs help defining.

6. DISCUSSION REGARDING POSSIBLE LOCS D CONNECTION TO THE CITY OF SOLVANG'S WASTEWATER TREATMENT PLANT AND RELATED INFRASTRUCTURE, INCLUDING WSC AND CAROLLO CONTRACTED EFFORTS

The Subcommittee will discuss potential connection to the City of Solvang, including technical issues raised by connection, requests from the two contractors who the LOCS D has engaged to perform studies related to the connection.

7. GENERAL DISCUSSION OF COLLECTION, TREATMENT, AND DISPOSAL OPTIONS

The Subcommittee will discuss options for the collection, treatment, and disposal of wastewater for the District. Given the Regen contract, this discussion will focus heavily on Treatment options, including Membrane Bioreactor (MBR), connection to Solvang's treatment plant, and other solutions previously brought up by members of the public.

8. ADJOURNMENT

ITEM 4A – MINUTES

MINUTES

Julie Kennedy, President
Lisa Palmer, Vice President
Tom Fayram, Director
Greg Parks, Director
Nina Stormo, Director



**LOS OLIVOS COMMUNITY SERVICES DISTRICT
TECHNICAL SUBCOMMITTEE MEETING**

Posted: 6-21-2024

June 28, 2024 – 8:30 AM

**St Mark's in the Valley Episcopal Church
2901 Nojoqui Ave, Los Olivos CA 93441**

Please observe decorum and instructions from the Subcommittee Chair

Subcommittee Members: Director Fayram (Chair), Directors Parks, and General Manager Guy Savage

This meeting will be held both in-person and electronically via Zoom Meetings. In-person the meeting will be held at the following locations:
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MEETING AGENDA

1. CALL TO ORDER

Chair Fayram calls the meeting to order at 8:32 AM.

2. ROLL CALL

Present: Chair Fayram, Director Parks, GM Savage
Absent: None

3. PUBLIC COMMENTS

Members of the public may address the Subcommittee on any items of interest within the subject matter and jurisdiction of the Board but not on the agenda today (Gov. Code - 54954.3). The public may also request future agenda topics at this time. Speakers are limited to a maximum of 3 minutes. Due to the requirements of the Ralph M. Brown Act, the Subcommittee cannot take action today on any matter not on the agenda, but a matter raised during Public Comments can be referred to District staff for discussion and possible action at a future meeting.

Chair Fayram opens the floor to public comment.

No requests to speak.

ADMINISTRATIVE ITEMS:

All matters listed hereunder constitute an administrative / consent agenda and will be acted upon by a single vote of the Board. Matters listed on the Consent Agenda will be read only on the request of a member of the Subcommittee, in which event the matter may be removed from the Consent Agenda and considered as a separate item. Public may comment on any of the items prior to the vote being taken by the Subcommittee.

4. CONSENT AGENDA

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A. MINUTES APPROVAL

Approval of minutes from April 26, 2024 and May 6, 2024.

Chair Fayram opens the floor to public comment.

No requests to speak.

Motion to approve consent agenda.

Motion by: Director Parks; Second: Director Fayram

Voice vote: 3-0

BUSINESS ITEMS:

All matters listed hereunder will be acted upon separately and public comment will be held for each item. As a Subcommittee of the full Board of Directors, Business Items may include one or more recommendations for further discussion or action at a full Board of Directors meeting.

5. DISCUSSION ON REGEN 30% ENGINEERING DESIGN HYBRID COLLECTION FINAL DELIVERABLE

The Subcommittee will discuss the final deliverable from the REGEN contract which provided a 30% engineering design of a hybrid collection solution. Representatives from REGEN may be on hand, via Zoom, to answer questions. The final deliverable is posted online at:

<https://www.losolivoscsd.com/files/6436928e3/Los+Olivos+-+Basis+of+Design+Hybrid+Collection+Analysis+Rev+1.1+Final.pdf>

GM Savage introduces the item, noting that the Technical Subcommittee never really got to review the final deliverable before it was presented at the full Board meeting.

Chair Fayram talks about a desire to have a better breakdown of costs and to make it clearer. Annual costs, maintenance, and other costs should be capitalized so people can make a more informed decision. He adds a comment about on-going ownership of the equipment and whether there are easements.

Director Parks comments that he felt REGEN did a good job.

Chair Fayram opens the floor to public comment.

Kathryn Rohrer speaks.

6. GENERAL DISCUSSION OF COLLECTION, TREATMENT, AND DISPOSAL OPTIONS

The Subcommittee will discuss options for the collection, treatment, and disposal of wastewater for the District. Given the Regen contract, this discussion will focus heavily on Treatment options, including Membrane Bioreactor (MBR), connection to Solvang’s treatment plant, and other solutions previously brought up by members of the public.

GM Savage notes that this is a standing item.

Director Parks asks about speaking to REGEN about treatment options. Chair Fayram asks about speaking to Cloacina as well, potentially getting new numbers from them related to use of effluent collection as opposed to gravity fed.

Chair Fayram opens the floor to public comment.

Kathryn Rohrer speaks.

7. DISCUSSION ON GROUNDWATER MONITORING WELLS GRANT AND WELL INSTALLATION AND TESTING

The Subcommittee will discuss progress of the grant and/or implementation of the groundwater monitoring project and subsequent sampling/testing. Test results from the May 16, 2024 sampling have not been received as of the posting of this agenda – if they are received prior to the meeting an addendum will be published.

GM Savage notes that an addendum was posted on Monday, June 24, 2024 – which is even before required Brown Act timelines.

Director Parks asks continuing split level testing, GM Savage responds that the District agreed to provide testing twice a year, for nitrates only, and not to do split level testing.

Chair Fayram opens the floor to public comment.

Kathryn Rohrer speaks.

Director Fayram asks about action levels for nitrates. GM Savage responds that the CCRWQCB has said that they look at any community over 1, with 10 being the MCL. Director Parks comments that he asked REGEN about the nitrate levels, REGEN commented that they know of a company that also can suggest some testing approaches.

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8. DISCUSSION RELATED TO THE UPCOMING AUGUST 21, 2024 COMMUNITY WORKSHOP ON COLLECTION AND TREATMENT OPTIONS

The Subcommittee will discuss the upcoming August 21, 2024 workshop and potential content for the workshop. The General Manager will provide an update on actions already taken. He will also seek input from the Subcommittee on areas he still needs help defining.

GM Savage notes that much of the coordination for the meeting has been completed. He says that he is hoping the subcommittee can help him define the content of the meeting a little better.

Director Fayram suggests that the item be added to the full Board meeting on July 10 as well. He adds that having a second workshop on treatment. He comments that having something that shows how it pieces together will be helpful. Director Parks adds that it isn't a "final" decision making discussion, more just an informational and starting workshop.

Chair Fayram opens the floor to public comment.

Kathryn Rohrer and Michelle de Werd.

GM Savage responds to public comment regarding property owner vote (Proposition 218), noting that it will be on the agenda for July. Chair Fayram further responds to public commentary stating that he wants to be careful to not overload the workshop. GM Savage responds that the public and subcommittee commentary is helpful to help set the agenda for the workshop. Director Parks comments about the community's desire to have final costs.

9. DISCUSSION REGARDING POSSIBLE LOCSD CONNECTION TO THE CITY OF SOLVANG'S WASTEWATER TREATMENT PLANT AND RELATED INFRASTRUCTURE

The LOCSD Board of Directors wrote a letter to the City of Solvang expressing interest in connecting to the City's wastewater infrastructure. The City concurred that exploring a potential connection by the LOCSD to the City's wastewater treatment plant and related infrastructure makes sense at its January 22, 2024 City Council meeting. See the January 10, 2024 Regular Meeting agenda of the LOCSD Board of Directors for more details:

<https://www.losolivoscscsd.com/files/2d9f1238c/2024-1-10+Packet+Los+Olivos+CSD+Regular+Meeting.pdf>

The Subcommittee will discuss potential connection to the City of Solvang, including technical issues raised by connection.

Director Parks wonders aloud about what a homeowner would pay. Subcommittee members discuss the costs related to connecting to the City of Solvang. GM Savage notes that he likes to compare LOCSD to SYCSD as they are both non-City entities.

Chair Fayram opens the floor to public comment.

Kathryn Rohrer speaks

INFORMATIONAL ITEMS:

All matters listed hereunder are informational only, no action will be taken, and public comment not received.

10. SUBCOMMITTEE MEMBER COMMENTS

Subcommittee members will give reports on any meetings that they attended on behalf of the Subcommittee and/or choose to comment on various Subcommittee activities. Subcommittee member requests for future agenda items may also be made at this time.

Director Parks – none

Chair Fayram – none

GM Savage – Comments about issues he

11. ADJOURNMENT

Motion to adjourn at 9:24 AM.

Motion by: Director Parks; Second: Director Fayram

Voice vote: 3-0

Respectfully submitted:



Guy W. Savage
General Manager – Los Olivos Community Services District

Approved:

Chair – Director Tom Fayram

ITEM 6 – CITY OF SOLVANG CONNECTION

SOLVANG CONNECTION



Guy Savage <gm.locsd@gmail.com>

Re: [External] Fwd: LOCSD-Solvang Modeling Data Request

General Manager - LOCSD <gm.locsd@gmail.com>

Wed, Jul 24, 2024 at 12:42 PM

To: Doug Pike <dpike@mnsengineers.com>

Cc: "adonald@wsc-inc.com" <adonald@wsc-inc.com>, "jreynolds@wsc-inc.com" <jreynolds@wsc-inc.com>

Yes, I see where you are going and it makes sense to me.

Guy

On Mon, Jul 22, 2024 at 10:22 AM Doug Pike <dpike@mnsengineers.com> wrote:

Adam, Please see responses below. Guy, please affirm if you agree.

Thanks!

Doug Pike, PE
District Engineer



(805) 331-3553 Cell

----- Forwarded message -----

From: **Adam Donald** <adonald@wsc-inc.com>

Date: Mon, Jul 15, 2024 at 2:23 PM

Subject: RE: LOCSD-Solvang Modeling Data Request

To: General Manager - LOCSD <gm.locsd@gmail.com>

Cc: Joshua Reynolds <jreynolds@wsc-inc.com>, Doug Pike <dpike@mnsengineers.com>

Hi Guy,

After reviewing the reports you sent over, I have a few questions to make sure we're modeling what you want us to model.

1. The Stantec report seems to provide an all gravity system estimate while the Regen report looks at alternatives using some level of effluent sewers. Should the Regen values supersede the Stantec values?

I believe we should use the Stantec numbers for a gravity system. Discussion points to support this are:

The REGEN estimates are somewhat less conservative than Stantec primarily because the pressurized effluent mains are assumed to have less inflow and infiltration, so the estimated “peaking factor” is less. Although I agree Stantec’s peaking factors seem conservative for a new collection system, by 25-40%, I believe flows based on water records will result in underestimated future flows because drought, water use conservation measures, high water costs, and draught education in place in Los Olivos for years. Water use will reach a “new normal” once sewerage is introduced. I should mention that the results of this new study will provide an estimated pipe size (& lift station size if applicable,) which will have a built-in added capacity.

Table 1 Flow Rate Peaking Factors

	Peaking Factor
Average Daily Maximum Monthly Flow (ADMMF)	1.10
ADMMF (Mattie’s Tavern)	1.33
LOCSD Recommended Peaking Factor	2.25
Maximum Daily Flow (MDF)	3.20
Peak Dry Weather Flow (PDWF)	3.37
Peak Wet Weather Flow (PWWF)	4.00

2. In the Regen report, there are 4 scenarios (screenshot below) for treatment evaluated. Has the District finalized on which alternative they want to evaluate in the model? If not, I can plan on using the highest flow as a starting point and then look at sensitivity of decreasing the peak flows in accordance with the other options.

Please plan on using the highest flow as a starting point and then look at sensitivity of decreasing the peak flows in accordance with the other options. Please reference in your study that the Stantec Options for full sewerage of the District have flow rates that somewhat correlates to Flow rates of options A and B in the REGEN Study. (See Table Below.)

Hybrid Wastewater Collection Flow Evaluation

Hydraulic Estimates (water records¹)

Option	Avg Day	Max Month	Max Day	Peak Hour	
	(gpd)	(gpd)	(gpd)	(gpm)	
A	96,181	110,608	134,653	215	A – Gravity Sewer & Effluent Sewer
B	96,181	110,608	134,653	134	B – Effluent Sewer all Zones
C	81,381	93,588	113,933	194	C – Gravity Sewer, Effluent Sewer & Advanced
D	81,381	93,588	113,933	113	D – Effluent Sewer & Advanced

Note: Hydraulic capacity of collection options could impact the size and capital cost of treatment and dispersal / reuse system

¹Based on LOCSD water records

3. The Stantec report from 2022 has a detailed breakdown of existing vs buildout flows while the Regen report seems to only be looking at one of these (it's unclear to me if they developed EDU counts for existing or buildout). If using the Regen data, do you want us to look at just the flows they provide rather than an existing/buildout split?

Please use the Stantec flows with the existing vs buildout flows.

EXECUTIVE SUMMARY

The purpose of this Basis of Design (BOD) is to compare alternative collection systems configuration and make an initial recommendation on the best approach for the unincorporated community of Los Olivos. This BOD has been conducted by Regen AEC (Regen) for the Los Olivos Community Service District (LOCSD) and the Los Olivos Wastewater Reclamation Program Project (LOWRPP). The City of Los Olivos has been analyzing solutions for the wastewater concerns for close over 15-years, during which time construction costs are estimated to have increased by roughly 85% based on the Construction Cost Index¹. With the current costs of inflation and the availability of funding the timing for a solution is critical, lest another 15 years of costs drive the price of alternatives even higher.

Within this analysis the community was divided into 6 zones based on guidance from the Board of Directors of the Los Olivos Community Service District. The zones were utilized to evaluate three alternatives, including gravity sewer wastewater collection, effluent sewer wastewater collection, and advanced onsite individual onsite treatment and dispersal systems. Four options (A, B, C, & D) were analyzed utilizing these three alternative systems.

- Option A included a gravity sewer for the collection of wastewater within zones 1 & 2 (commercial area) and effluent sewer throughout zones 3, 4, 5, & 6
- Option B included an effluent sewer throughout all zones
- Option C included a gravity sewer for the collection of wastewater within zones 1 & 2 (commercial area), effluent sewer throughout zones 3, 4, & 5, and advanced onsite systems throughout zone 6
- Option D included an effluent sewer throughout zones 1, 2, 3, 4, & 5, and advanced onsite systems throughout zone 6.

The analysis included an evaluation of capital costs and wastewater constituents associated with all zones and options. A summary of the results is provided below:

Table 1 – Wastewater Flow

Option	Avg Wet Day (gpd)	Max Dry Month (gpd)	Max Dry Day (gpd)	Peak Hour (gpm)
A	129,800*	110,800	134,900	308*
B	96,200	110,800	134,900	134
C	115,000*	93,700	114,100	287*
D	81,400	93,700	114,100	113

* Based on estimated gravity sewer wet weather flow from Metcalf & Eddy 2003
gpd – gallons per day
gpm – gallons per minute

Thank you,

Adam Donald PE

pronouns: he/him/his

C: 408.728.0941

O: 503.419.6336 ext. 402

Licensed in CA, OR, & WA

betterwaterfuture.com

From: General Manager - LOCSD <gm.locsd@gmail.com>
Sent: Monday, July 8, 2024 3:29 PM
To: Adam Donald <adonald@wsc-inc.com>
Cc: Joshua Reynolds <jreynolds@wsc-inc.com>; Doug Pike <dpike@mnsengineers.com>
Subject: Re: LOCSD-Solvang Modeling Data Request

Second attempt, this time without the Basis of Design docs, which may have been too big. They can be found on our website at:

<https://www.losolivoscsd.com/technical-studies-and-reports>

Guy

On Thu, Jun 27, 2024 at 1:12 PM Adam Donald <adonald@wsc-inc.com> wrote:

Hi Guy,

Please see attached for our data request for the modeling effort. Let me know if you have any questions or do not have any of the requested data.

Thank you,

Adam Donald PE

pronouns: he/him/his

adonald@wsc-inc.com

C: 408.728.0941

O: 503.419.6336 ext 402



betterwaterfuture.com

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Guy Savage

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