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



Posted: 3-4-2025

#### LOS OLIVOS COMMUNITY SERVICES DISTRICT REGULAR MEETING March 12, 2025, 6PM (Pacific) Los Olivos Grange Hall 2374 Alamo Pintado Ave, Los Olivos CA 93441 Please observe decorum and instructions from the President

This meeting will be held both in-person and electronically via Zoom meetings. In-person the meeting will be held at the address above. The public will also be able to hear and participate electronically by using the following links:

On Zoom:

https://us06web.zoom.us/j/85195290804?pwd=rO5nrKISaewJAVMeY3MbZ7mtLlxudn.1 By Phone: Meeting ID: 851 9529 0804 Passcode: 473619

One tap: +14086380968,,85195290804#,,,,\*473619# US (San Jose)

The Los Olivos Community Services District (LOCSD) is committed to ensuring equal access to meetings. In compliance with the American Disabilities Act (ADA), 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 losolivoscsd@gmail.com. Agendas and meeting packets are generally available to the public at the Los Olivos Post Office - 2880 Grand Avenue. 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. PLEDGE OF ALLEGIANCE

#### 4. PUBLIC COMMENT

Members of the public may address the Board of Directors 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 Board of Directors 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.

#### **INFORMATIONAL ITEM:**

Per public request, a brief report from the General Manager that conveys District status and updates is being added at the beginning of the agenda. This status report may touch on key items in the project plan or schedule. The General Manager will leave other detailed reporting, including budgetary reporting until the end of the meeting. This item is informational only, no action will be taken, and no public comment will be received.

#### 5. GENERAL MANAGER'S BRIEF DISTRICT STATUS REPORT

#### ADMINISTRATIVE ACTION 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 at the request of a member of the Board, in which

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event the matter may be removed from the Consent Agenda and considered as a separate item. The public may comment on any of the items prior to the vote being taken by the Board.

#### 6. CONSENT AGENDA

#### A. APPROVAL OF MEETING MINUTES

Meeting minutes of February 12, 2025.

No.	Invoice Date	Invoice #	Provider	Amount
1	2/18/2025	88887	MNS – Engineering and Support Services	\$ 1,822.50
2	9/9/2024	FB55521	Carollo – City of Solvang WWTP Engineering	\$ 1,390.25
3	1/30/2025	2345859	Stantec – 30% Design LOCSD to City of Solvang force main	\$ 13,141.50
4	2/27/2025	2359575	Stantec – 30% Design LOCSD to City of Solvang force main	\$ 24,901.00
5	2/13/2025	93376	A&W – Legal Services	\$ 912.60
6	3/1/2025	20252	GWS – General Manager Services	\$ 5,800.00

#### B. APPROVAL PAYMENT OF INVOICES RECEIVED ON OR BEFORE MARCH 3, 2025.

Project	Vendor	To Date (inc.	Total
		above)	Authorization
City of Solvang Connection	Stantec – LOCSD to Sunny Field Park force main	\$ 45,239.50	\$ 56,250.00
Groundwater Monitoring	GSI – Bi-annual sampling and testing	\$ 7,414.01	\$ 14,300.00
FY 2023-24 Audit	MLH		\$ 3,250.00

#### **BUSINESS ITEMS:**

#### 7. PLANNING FOR DECISION MAKING RELATED TO WASTEWATER TREATMENT SOLUTIONS AND UPCOMING COMMUNITY WORKSHOP

This item is asking the Board of Directors (and the public) to tell staff what it needs to make an informed decision about the various wastewater treatment solutions under consideration. This item was discussed on February 12, 2025 in open session. As noted when discussed last month, staff is returning this month with a spreadsheet that has been updated to include Board and public commentary and additional information.

Additionally, staff is requesting Board of Directors input on dates for an upcoming community workshop. The workshop will be the public's opportunity to provide input on wastewater treatment solutions. Staff has worked with President Kennedy and preliminarily set the meeting for May 12, 2025. General Manager's recommendation: Provide direction to staff.

#### 8. STRATEGIC AND FISCAL YEAR 2025-26 BUDGET PLANNING

As a prelude to General Manager developing next year's budget, the Board will discuss the upcoming fiscal year (July 1, 2025 through June 30, 2026) from a strategic goals and budgetary perspective. A preliminary budget will be provided in June based on Board input.

General Manager's recommendation: Provide direction to staff.

#### **INFORMATIONAL ITEMS:**

These items are informational only, no action will be taken, and no public comment will be received.

9. REPORTS

A. SUBCOMMITTEE REPORTS

Finance Subcommittee (President Kennedy Chair) Grants Subcommittee (President Kennedy Chair) Project Management Subcommittee (Vice President Palmer Chair) **Technical Subcommittee (Director Fayram Chair)** 

#### **B. GENERAL MANAGER AND DISTRICT ENGINEER COMMENTS**

The GM and DE will give reports on any meetings that they attended on behalf of the District, report on various District-related activities and/or provide status on projects. The GM may also review the Budget Reports. See the packet for more details.

Notable upcoming meeting items:

Los Olivos Community Services District, P.O. Box 345, Los Olivos, CA 93441, (805) 500-4098 losolivoscsd@gmail.com, www.losolivoscsd.com

April – Stantec 30% design May – Technical Decision making input (gravity vs effluent, local treatment and disposal vs City of Solvang treatment and disposal), Proposed Budget June – Budget Hearing, Tax Assessment, Gann Limit

#### **10. DIRECTORS COMMENTS**

Directors will give reports on any meetings that they attended on behalf of the Board and/or choose to comment on various District-related activities. Directors may also request future agenda topics at this time.

#### **11. ADJOURNMENT**

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## **ITEM 6A - MINUTES**

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



Posted: 2-9-2025

#### LOS OLIVOS COMMUNITY SERVICES DISTRICT REGULAR MEETING February 12, 2025, 6PM (Pacific) Los Olivos Grange Hall 2374 Alamo Pintado Ave, Los Olivos CA 93441 Please observe decorum and instructions from the President

This meeting will be held both in-person and electronically via Zoom meetings. In-person the meeting will be held at the address above. The public will also be able to hear and participate electronically by using the following links:

On Zoom:

https://us06web.zoom.us/j/85195290804?pwd=rO5nrKISaewJAVMeY3MbZ7mtLlxudn.1 By Phone: Meeting ID: 851 9529 0804 Passcode: 473619

One tap: +14086380968,,85195290804#,,,,\*473619# US (San Jose)

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#### **MEETING AGENDA**

#### 1. CALL TO ORDER

President Kennedy called the meeting to order at: 6:02 PM

#### 2. ROLL CALL

Present: President Kennedy, Vice President Palmer, Director Fayram, Director Parks, Director Nelson Absent: None

GM Savage notes for the record that new District Counsel Martin Koczanowicz is attending via Zoom.

#### 3. PLEDGE OF ALLEGIANCE

#### 4. PUBLIC COMMENT

Members of the public may address the Board of Directors 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 Board of Directors 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.

President Kennedy opens the floor to public comment. No requests speak.

#### **INFORMATIONAL ITEM:**

Per public request, a brief report from the General Manager that conveys District status and updates is being added at the beginning of the agenda. This status report may touch on key items in the project plan or schedule. The General Manager will leave other detailed reporting, including budgetary reporting until the end of the meeting. This item is informational only, no action will be taken, and no public comment will be received.

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#### 5. GENERAL MANAGER'S BRIEF DISTRICT STATUS REPORT

GM Savage reports that the Stantec 30% design and cost effort is on schedule to be presented by April.

#### ADMINISTRATIVE ACTION 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 at the request of a member of the Board, in which event the matter may be removed from the Consent Agenda and considered as a separate item. The public may comment on any of the items prior to the vote being taken by the Board.

#### 6. CONSENT AGENDA

A. APPROVAL OF MEETING MINUTES

Meeting minutes of December 11, 2024.

#### B. APPROVAL PAYMENT OF INVOICES RECEIVED ON OR BEFORE JANUARY 29, 2025.

The Finance Subcommittee review the following invoices on January 3, 2025 and is recommending them for approval. NOTE: There was a \$45.40 charge from A&W on their November bill, that the GM authorized to be paid with the rest of the bill (92002).

No.	Invoice Date	Invoice #	Provider	Amount
1	11/20/2024	88074	MNS – Engineering and Support Services	\$ 987.50
2	12/17/2024	88303	MNS – Engineering and Support Services	\$ 802.50
3	12/06/2024	876.006-1	GSI – Bi-annual sampling and testing	\$ 5,395.26
4	11/11/2024	FB59056	Carollo – City of Solvang WWTP Engineering	\$ 2,291.00
5	11/14/2024	92001	A&W – Legal Services	\$ 1,846.80
6	12/30/2024	202412	Savage – General Manager Services	\$ 5,070.00

The invoices below were scheduled for the February 7, 2025 Finance Subcommittee meeting but are there was not a quorum for the meeting, it did not take place. Consequently, the following invoices do not carry a recommendation for approval from the Finance Subcommittee.

No.	Invoice Date	Invoice #	Provider	Amount
7	1/15/2025	88701	MNS – Engineering and Support Services	\$ 1,581.25
8	12/30/2024	10386	WSC – Solvang Connection Engineering (pumps, pipes)	\$ 1,695.75
9	1/10/2025	876.006 - 2	GSI – Bi-annual sampling and testing	\$ 2,018.75
10	1/16/2025	2338783	Stantec – 30% Design LOCSD to City of Solvang force main	\$ 7,197.00
11	1/8/2025	FB60827	Carollo – City of Solvang WWTP Engineering	\$ 319.00
12	1/23/2025	92778	A&W – Legal Services	\$ 182.40
13	1/29/2025	20251	GWS – General Manager Services	\$ 3,321.75

Project	Vendor	To Date (inc.	Total
		above)	Authorization
City of Solvang Connection	WSC – Treatment Infrastructure (pumps, pipes)	\$ 18,728.25	\$ 18,787.00
City of Solvang Connection	Carollo – Treatment Plant Impacts	\$ 15,450.25	\$ 40,240.00
City of Solvang Connection	Stantec – LOCSD to Sunny Field Park force main	\$ 7,197.00	\$ 56,250.00
Groundwater Monitoring	GSI – Bi-annual sampling and testing	\$ 7,414.01	\$ 14,300.00
FY 2023-24 Audit	MLH		\$ 3,250.00

GM Savage notes that there are more invoices than usual as the Board did not meet in January 2025. He adds that the invoices 7-13, scheduled to be reviewed by the Finance Subcommittee on February 7 were not officially reviewed as the meeting did not have a quorum and was therefore cancelled, and the items do not carry a recommendation. President Kennedy notes that she did review them and did not see any issues.

President Kennedy opens the floor to public comment. No requests to speak.

Motion to approve the consent agenda as presented. Motion by: VP Palmer, Second: Director Nelson Voice vote: 5-0

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#### **BUSINESS ITEMS:**

#### 7. THE RALPH M. BROWN ACT - KEY POINTS FOR THE PUBLIC, BOARD OF DIRECTORS, AND STAFF

District Counsel will provide a summary of the Ralph M. Brown Act. A similar presentation was made on January 10, 2024. The State of California provides an overview of the law related to the Act at:

<u>https://leginfo.legislature.ca.gov/faces/codes\_displayText.xhtml?lawCode=GOV&division=2.&title=5.&part=1.&chapter=9.&article</u> The California State Attorney General provides a detailed document related to the Act at: <u>https://oag.ca.gov/system/files/media/the-brown-act.pdf</u>

The presentation will also serve as an "official" introduction to new District Counsel, Martin Koczanowicz. *General Manager's recommendation: Receive and file.* 

GM Savage reintroduces District's new Counsel Martin Koczanowicz and notes that the slides can also be found on the District's website. Mr. Koczanowicz then walks through the slides.

VP Palmer asks if there is anything new since 2020, with Mr. Koczanowicz responding there are some bills pending; but, he is not aware of anything beyond changes related to Zoom.

President Kennedy opens the floor to public comment. No requests to speak.

#### 8. CONSIDERATION OF THE FISCAL YEAR (FY) 2023-24 FINANCIAL AUDIT

The District contracted with Moss, Levy, Hartzheim (MLH) to conduct an audit of District finances for fiscal year 2023-24, which ran from July 1, 2023 to June 30, 2024. As the Finance Subcommittee did not meet on February 7, 2025 as planned, the report has not been reviewed by nor does it carry any recommendation from the Finance Subcommittee.

General Manager's recommendation: Approve the FY 2023-24 audit and direct the President and/or General Manager to sign as appropriate, and direct the General Manager to file the finalized report and any related documents with the State of California as appropriate.

GM Savage introduces the item. He notes that the Finance Subcommittee did not review it as they did not meet. VP Palmer asks President Kennedy if she reviewed it. President Kennedy responds that she did review it and there are no findings. Director Fayram comments that selecting a new Auditor, it would be helpful to have an "executive summary" with each future report.

President Kennedy opens the floor to public comment. No requests to speak.

Motion to Approve the FY 2023-24 audit and direct the President and/or General Manager to sign as appropriate, and direct the General Manager to file the finalized report and any related documents with the State of California as appropriate.

Motion by: VP Palmer, Second: Director Fayram Voice vote: 5-0

#### 9. PLANNING FOR DECISION MAKING RELATED TO WASTEWATER TREATMENT SOLUTIONS

This item is asking the Board of Directors (and the public) to tell staff what it needs to make an informed decision about the various wastewater treatment solutions under consideration.

**Background:** In late 2024, the District contracted with Stantec Consulting to provide a 30% engineering design for a force main to convey gravity collected LOCSD wastewater from the District to a City of Solvang sewer manhole located near Sunny Field Park. The Stantec design and cost estimates are anticipated to be delivered to the District by April 2025.

The District previously contracted with Carollo Engineering to determine impacts of processing LOCSD wastewater at the City of Solvang's Wastewater Treatment Plant (WWTP). Carollo determined that treatment of District wastewater is feasible but recommended that the District not connect to the City of Solvang until a currently underway upgrade at the Solvang WWTP is completed. The District also contracted with WSC to examine the City of Solvang's existing treatment infrastructure between the previously noted manhole (near Sunny Field Park) and the City's WWTP. WSC concluded that approximately \$3.5M in appurtenant infrastructure (pipes, pumps, etc.) upgrades would be required to convey the additional flows from the manhole to the City's WWTP. As part of its report, WSC noted that the City already has plans to modify some of the infrastructure requiring upgrades to convey LOCSD wastewater; but noted that the LOCSD flows change the work required for the City. Once the Stantec design is complete, 30% engineering costs for connecting the LOCSD to the City of Solvang will be known.

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The District similarly contracted with Stantec and REGEN to design and provide cost estimates related to collection of wastewater within the District. Stantec designs focused on gravity fed collection, while REGEN examined effluent collection. Presentations related to designs and estimates were provided to the public at a workshop held by the District on August 21, 2024 (for more information visit the District's website:

https://www.losolivoscsd.com/2024-08-21-special-collection-workshop). At that same workshop, updates to costs related to local treatment of wastewater (using a membrane bio-reactor system developed by Cloacina), as well as local disposal options (percolation chambers) were provided to the Board and public.

Staff is requesting that the Board of Directors provide direction regarding additional information that would be needed by the Board to make decisions regarding collection, treatment, and disposal of wastewater. More specifically, staff is requesting that the Board of Directors provide direction regarding information needed to complete comparisons between (a) local treatment versus City of Solvang treatment of wastewater and (b) gravity fed versus effluent collection versus hybrid (or mixed) collection approaches within the District. The Board's deliberations related to planning for decision making may also involve considering information, milestones, and education required to successfully execute a Proposition 218 (Property Owner) vote and result in additional direction to staff. Staff is requesting direction now, to eliminate the need for a serial approach to gathering and providing information, as much of what the Board would like obtained can likely be gathered while Stantec concludes its engineering and cost estimating efforts related to the force main. General Manager's recommendation: Provide direction to staff.

GM Savage discusses recent history as outlined in the item. He then notes that President Kennedy and he met with the CCRWQCB last week and comments on the timeliness of this item as the CCRWQCB continues to be supportive of the District's actions, but is growing more and more concerned about a lack of progress and schedules that seem to consistently slip. GM Savage then opens up a spreadsheet he started to "track" all of the pieces of information that may be useful in helping the Board of Directors (and public) get to a decision about the technical approach to be put through EIR and further design activities. He comments that in his mind, the District needs to be at least at a 60% design before a Proposition 218 (Property Owner Vote) is a feasible action. He adds that he would be more comfortable with something at or above 80% as it removes uncertainty from voters' minds about costs. The Board then provides GM Savage with a list of things that are needed to decide about collection (effluent versus gravity fed) and treatment location (local versus City of Solvang).

The Board then discusses various items they would like to have on hand to make a decision. GM Savage agrees to incorporate the information provided and bring it back at the March Regular meeting as part of a decision matrix (rubric). He adds that he will try to publish the agenda early (possibly a week beforehand) to allow the public and Board more time to look at and understand the issues, and offer additional items that would be needed.

#### President Kennedy opens the floor to public comment.

Michelle DeWerd, Chip Wulbrandt, and Kathryn Rohrer speak.

#### 10. PLANNING FOR UPCOMING SANTA BARBARA COUNTY LOCAL AGENCY FORMATION COMMISSION (LAFCO) **PRESENTATION ON APRIL 3, 2025**

The District has sought and received extensions related to developing a wastewater treatment solution and conducting a related Proposition 218 (Property Owner vote) since its formation in 2017. The most recent extension request was filed on March 16, 2023 and supported by a presentation by then President Tom Fayram on April 6, 2023. On April 3, 2025, President Julie Kennedy and General Manager Guy Savage expect to make a presentation to LAFCO. As part of the presentation, the President anticipates requesting an additional extension to extend the time needed to successfully conduct a Proposition 218 assessment as required by Condition B (vii) of LAFCO Resolution 17-03. Direction is being sought regarding the additional extension, milestones and information needed for a successful Proposition 218 vote, and timing of a vote.

#### General Manager's recommendation: Provide direction to the President and staff regarding the upcoming LAFCO presentation.

GM Savage introduces the item noting that President Kennedy is currently slated to present to LAFCO on April 3, 2025. He adds that he expects public comment at the LAFCO presentation, some of which may be asking why we are not in construction yet. He notes that in 2023, the LAFCO Board was clear that they wanted a solution well underway before the District returned in 2025.

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Agenda Packet

Director Fayram comments that the District is at the point where it needs to make some decisions and move forward. He adds that funding is likely the most critical issue moving forward. He adds that without grant funding, he isn't sure what option the District will have.

VP Palmer comments that we can put together a schedule based on a May workshop. She adds that asking for a one-year extension isn't necessarily a bad thing.

President Kennedy asks if the Project Management Subcommittee can meet and put together a schedule by the March meeting. VP Palmer and GM Savage both respond that they believe it can be done. GM Savage notes that he will reach out to the PM Subcommittee to pull a meeting together in the following week.

President Kennedy opens the floor to public comment. Kathryn Rohrer speaks.

#### INFORMATIONAL ITEMS:

These items are informational only, no action will be taken, and no public comment will be received.

#### 11. REPORTS

#### A. SUBCOMMITTEE REPORTS

Finance Subcommittee (President Kennedy Chair) – Notes that the Subcommittee met in January, but not February.

Grants Subcommittee (No current Chair) – Notes that the Subcommittee did not meet, but is scheduled to meet on Friday.

Project Management Subcommittee (Vice President Palmer Chair) – Notes that the Subcommittee did not meet, but was scheduled to meet in January. Given the focus on schedules and LAFCO, she anticipates the Subcommittee will meet soon.

Technical Subcommittee (Director Fayram Chair) – Notes that the Subcommittee did not meet but is scheduled to meet on Friday.

#### B. GENERAL MANAGER AND DISTRICT ENGINEER COMMENTS

The GM and DE will give reports on any meetings that they attended on behalf of the District, report on various District-related activities and/or provide status on projects. The GM may also review the Budget Reports. See the packet for more details.

Notable upcoming meeting items:

April – Stantec 30% design

May/June – Potential Connection to the City of Solvang Workshop and/or Full System Workshop June/July – Project Definition Workshop [NOTE: May be concurrent with connection to City of Solvang workshop]

GM Savage briefly walks through the attachments to the agenda. He then adds that he is attempting to set up meetings with Dunn. He also reemphasizes that he is meeting with the City of Solvang tomorrow (2/13). DE Pike comments that we have approval for the remaining \$75,000 of WRF funding, bringing the total grant amount to \$150,000.

#### **12. DIRECTORS COMMENTS**

Directors will give reports on any meetings that they attended on behalf of the Board and/or choose to comment on various District-related activities. Directors may also request future agenda topics at this time.

Director Parks- None Director Nelson- None Director Fayram- None Vice President Palmer- None President Kennedy- None

#### **13. ADJOURNMENT**

Motion to adjourn at: 8:07 PM Motion by: Director Nelson, Second: Director Parks Voice vote: 5-0

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losolivoscsd@gmail.com, www.losolivoscsd.com

Respectfully submitted:

105 10

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

Approved:

President (Director) Julie Kennedy

Los Olivos Community Services District, P.O. Box 345, Los Olivos, CA 93441, (805) 500-4098

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# **ITEM 6B - INVOICES**



FOR ACH TRANSFERS:

Zions (National Bank of Arizona) Account # 0560013387 Routing # 1221-0532-0

Attention: Accounts Payable Los Olivos Community Services District Attention: General Manager PO Box 345 Los Olivos, CA 93441 United States Invoice : FB55521 Invoice Date : 9/9/2024 Project : 203237 Project Name : Solvang Evaluation of Los Olivos Flows on the WWTP

#### For Professional Services Rendered Through 8/31/2024

Solvang Evaluation of Los Olivos Flows on the WWTP Agreement 203237-00 Agreement Date: 5.15.24-11.30.24 Agreement Amount: \$40,240.00

				Billings	
	Fee	Available	To Date	Previous	Current
203237 - Solvang Evaluation of Los Olivos	40,240.00	40,240.00	1,390.25	0.00	1,390.25
Flows on the WWTP					

Current Billings	1,390.25
Amount Due This Bill	1,390.25

Total Fee :	40,240.00
To Date Billings :	1,390.25
Total Remaining :	38,849.75

000100 - Project Management and Meetings			
Rate Labor			
Class / Employee	Hours	Rate	Amount
Professional			
Alec C Beyers	1.00	185.000	185.00
Senior Professional			
Jeffrey A Weishaar	1.00	305.000	305.00
Support Staff			
Jean C Lardizabal	2.25	135.000	303.75
	Total Rate Labor		793.75
Unit Rate Expenses			
Account / Unit / Vendor	Quantity	Rate	Amount
PECE Charges			
Project Equip & Comm Exp			
PECE	4.25	14.000	59.50
	Total Unit Rate Expenses		59.50
Total Bill Task: 000100 - Project Management and	Meetings		853.25
000200 - Data Collection and Review			
Rate Labor			
Class / Employee	Hours	Rate	Amount
Technician			
Langley Rowland	3.00	165.000	495.00
	Total Rate Labor		495.00
Unit Rate Expenses			
Account / Unit / Vendor	Quantity	Rate	Amount
PECE Charges			
Project Equip & Comm Exp			
PECE	3.00	14.000	42.00
	Total Unit Rate Expenses		42.00
Total Bill Task: 000200 - Data Collection and Review	w		537.00

Total Project: 203237 - Solvang Evaluation of Los Olivos Flows on the WWTP

1,390.25



March 20, 2024

Mr. Randy Murphy City of Solvang 1644 Oak Street Solvang, CA 93463

Subject: Evaluation of Los Olivos flows on WWTP

Dear Randy,

Thank you for the opportunity to engage with the City in evaluating the impact of Los Olivos flows on the wastewater treatment plant (WWTP). The evaluation laid out in the scope and budget attached considers impacts of additional flows on the WWTP capacity as well as water quality of the effluent. Currently the City's new WWTP permit NOA has new final limits for TDS, chloride, sulfate, sodium, boron and total nitrogen based on the Santa Rita groundwater basin water quality objectives. It is important to consider the impacts of these salt constituents on the WWTPs ability to meet the new effluent standards.

We look forward to continuing to work with the City on this evaluation.

Sincerely, CAROLLO ENGINEERS, INC.

If Weistaar

Jeff Weishaar Vice President



## Attachment A: Evaluation of Los Olivos Flows on the WWTP Scope and Assumptions

#### **General Assumptions**

General assumptions for the study include the following:

- Los Olivos Community Services District (LOCSD) will provide all data related to flows and loads anticipated by the flows they wish to discharge to the City of Solvang's WWTP. Data to include anticipated flow variations (monthly average, maximum month, peak day and hour) and quality data (BOD, TSS, ammonia, total nitrogen, TDS, chloride, sulfate, sodium, and boron).
- LOCSD or City will cover the costs for any required sampling and separately pay for any laboratory costs needed.
- Project duration estimated at 4 months.

#### Task 1 – PROJECT MANAGEMENT AND MEETINGS

Task includes project management activities and meetings which include:

- Ongoing monthly project management and invoices, schedule updates, and progress letters.
- Monthly check-in meetings (up to 4 meetings at one hour) Virtual.
- Kickoff meeting A kickoff meeting will be held with Carollo team and City staff to discuss the project workplan, schedule and goals/objectives.

Deliverables: Meeting agendas, notes and powerpoints; electronic delivery

#### Task 2 – DATA COLLECTION AND REVIEW

Task includes:

- Consultant will provide a data request to the City of Solvang and LOCSD for all relevant data and past reports.
- Review of data provided by LOCSD and City, including groundwater, drinking water supply, WWTP influent and effluent water quality and volumes. Constituents to be evaluated include BOD, TSS, ammonia, total nitrogen, TDS, sodium, chloride, boron, and sulfate.
- LOCSD will provide a schedule of when flows will be delivered to City and when increases will be scheduled.
- Development of a sampling plan, if needed.

Deliverables: Data Request and Sampling Plan; electronic delivery

#### Task 3 – CAPACITY ASSESSMENT

The Consultant will evaluate existing WWTP capacity and the ability to accept new flows and loads from LOCSD. Average and peak conditions will be considered in the capacity analysis. The impact of additional loading on the WWTP's ability to meet discharge requirements related to treatment (BOD, TSS, ammonia, total nitrogen) will be considered. The timing of when discharges will be increasing will be established along with increased amounts. Consultant will use knowledge of City's WWTP and planned improvements.



#### Task 4 - WATER QUALITY ANALYSIS

The Consultant will evaluate the impact of LOCSD flows and loads on the City's ability to comply with the NOA discharge requirements for TDS, chloride, sulfate, sodium, and boron. Consultant will summarize data provided LOCSD and any data collected by the City or LOCSD via the sampling plan. This data will be used to develop a flow weighted loading analysis and estimated effluent concentrations expected over time if the City accepts LOCSD discharges. These concentrations will be compared to effluent limits to determine compliance.

#### Task 5 – RECOMMENDATION AND TM

The Consultant will summarize the findings of Tasks 2-4 into a draft Technical Memorandum (TM). The TM will identify the recommendation and conditions for the City to take additional flows and loads from LOCSD. The TM will also lay out the next steps for implementation if project is feasible. The draft TM will be reviewed by the City. A final TM will be developed incorporating City and LOCSD comments.

Deliverables: Draft and Final TM



#### City of Solvang – LOCSD Study

			Hours	by Classi	fication									
Task Description	Senior Prof	Lead Prof	Project Engineer	Professional	Assistant Prof	Support Staff	Total Hours	Labor		PECE	Pr T	inting/ ravel	E	stimated Fee
	\$305	\$284	\$240	\$185	\$165	\$135			\$	14.00				
Task 1 - Project Management and Meetings	9	10	2	10	0	8	39	\$ 9,000	\$	546	\$	500	\$	10,050
Project Management (4 months)	4	0	0	0	0	8	12	\$ 2,300	\$	168	\$	-	\$	2,470
Meetings - Kickoff, Monthly Progress (4) = 5	5	10	2	10	0	0	27	\$ 6,700	\$	378	\$	500	\$	7,580
Task 2 - Data Collection and Review	2	4	6	16	0	0	28	\$ 6,200	\$	392	\$	-	\$	6,590
Data Collection and Review	1	2	4	12	0	0	19	\$ 4,100	\$	266	\$	-	\$	4,370
Sampling Plan (1)	1	2	2	4	0	0	9	\$ 2,100	\$	126	\$	-	\$	2,230
Task 3 - Capacity Assessment	2	4	8	16	0	0	30	\$ 6,600	\$	420	\$	-	\$	7,020
Evaluation of WWTP Capacity Impacts	2	4	8	16	0	0	30	\$ 6,600	\$	420	\$	-	\$	7,020
Task 4 - Water Quality Analysis	2	2	0	8	0	0	12	\$ 2,700	\$	168	\$	-	\$	2,870
Evaluation of WQ Impacts	2	2	0	8	0	0	12	\$ 2,700	\$	168	\$	-	\$	2,870
Task 5 - Recommendation and TM	3	6	10	32	0	14	65	\$ 12,800	\$	910	\$	-	\$	13,710
Draft TM	2	4	8	24	0	8	46	\$ 9,200	\$	644	\$	-	\$	9,840
Final TM	1	2	2	8	0	6	19	\$ 3,600	\$	266	\$	-	\$	3,870
Total	18	26	26	82	0	22	174	\$ 37,300	\$	2,436	\$	500	\$	40,240



REMIT ACH PAYMENT TO: MNS Engineers, Inc. BANK NAME: Pacific Premier Bank ROUTING NUMBER: 322285781 BANK ACCOUNT NUMBER: 4317181537 TYPE ACCOUNT: Checking CONTACT: payments@mnsengineers.com IF UNABLE TO REMIT PAYMENT VIA ACH, PLEASE MAIL CHECKS TO: MNS Engineers, Inc. P.O. Box 6637 Pasadena, CA 91109-6573 Contact: 805.692.6921

 February 18, 2025

 Project No:
 LOCSD.180392.00

 Invoice No:
 88887

Los Olivos Community Services District P.O. Box 553 Los Olivos, CA 93441

Principal	Jeffrey Edwards	
Project Manager	Douglas Pike	
Project	LOCSD.180392.00	District Support Services

This Invoice includes:

1. General District Support Tasks: \$157.50

TASK01

2. Engineering Tasks: \$1,665.00

#### Professional Services for the Period:January 01, 2025 to January 31, 2025

Level 2

District Management

#### Professional Personnel

			Hours	Rate	Amount	
Project Coordinator			1.50	105.00	157.50	
	Totals		1.50		157.50	
	Total Lab	or				157.50
				Level 2 S	ubtotal	\$157.50
Level 2	TASK02	Engineering Tasks				
<b>Professional Per</b>	sonnel					
			Hours	Rate	Amount	
District Engineer			9.00	185.00	1,665.00	
	Totals		9.00		1,665.00	
	Total Lab	or				1,665.00
				Level 2 St	ubtotal	\$1,665.00

Project	LOCSD.180392.00	District Support Se	rvices		Invoice	88887	
			Curre	nt Invoice Amount		\$1,822.50	
Outstandiı	ng Invoices						
	Number	Date	Balance				
	87447	9/24/2024	1,452.50				
	88074	11/20/2024	987.50				
	88303	12/17/2024	802.50				
	88701	1/15/2025	1,581.25				
	Total		4,823.75				

Project	LOCSD.180392.00	District Support Serv	ices		Invoice	88887
Billing	Backup				Tuesday, Februa	ary 18, 2025
MNS Enginee	ers, Inc.	Invoi	ice 88887 Dated	1 2/18/2025		1:18:52 AM
Project	LOCSD.180392.	00 District Suppor	t Services			
Level 2	TASK01	District Management				
Professiona	l Personnel					
			Hours	Rate	Amount	
Project Coord	linator					
Zepeda, Mary		1/23/2025	1.00	105.00	105.00	
	GWS, MNS, Stanted	Invoices within the R	eady for Ager	GSI (2), ida Folder		
Zepeda, Mary	/	1/28/2025	.25	105.00	26.25	
	File A&W Rate Incre	ase FY2025				
Zepeda, Mary	/	1/30/2025	.25	105.00	26.25	
	Update Budget Trac for Agenda Folder	king Log with WSC In	voices within	the Ready		
	Totals		1.50		157.50	
	Total Labor					157.50
				Level 2 Su	btotal	\$157.50
		Ligineening Tasks				
Professiona	l Personnel			Data	<b>A AA</b>	
Dictrict Engin	loor		Hours	Rate	Amount	
Pike Douglas		1/10/2025	50	185.00	92 50	
Tike, Douglas	, Follow-up correspon	dence with Water Bo	ard re: Grant F	Report	52.50	
Pike, Douglas		1/15/2025	3.00	185.00	555.00	
	Stantec Meeting: 30 Grant Agreement No FUNDING PROGRA and submit the final Oliver's suggestion.	% Solvang Pipeline D b. D2105004, WATER M (WRFP) PROJEC disbursement request (2 hr)	esign (1 hr) RECYCLING I NO. 8603-11 for the projec	i I0. prepare t per		
Pike, Douglas	5	1/17/2025	1.00	185.00	185.00	
	Request for a Grant Agreement No. D21	disbursement form. R 05004, WRFP PROJE	eference Gra CT NO. 8603	nt -110.		
Pike, Douglas	5	1/21/2025	.50	185.00	92.50	
	LOCSD- PIpeline to Poytress, Stantec	Solvang corresponde	nce with Carri	е		
Pike, Douglas	5	1/22/2025	.50	185.00	92.50	
	Review invoice prep Letter	aration Instructions fo	r submittal. Be	egin Cover		
Pike, Douglas		1/27/2025	2.00	185.00	370.00	
	WRF Grant Final Inv all invoices (3 years)	for submittal	eet, cover lette	er, Compile		
Pike, Douglas	5	1/29/2025	.50	185.00	92.50	
	Assemble detailed in	voice with Backup to	RWQCB.			
Pike, Douglas	Invoice questions for	1/30/2025	1.00	185.00	185.00	
		in Regional Doard res	201760 2 UU		1 665 00	
	Total Labor		5.00		1,000.00	1.665.00

Project	LOCSD.180392.00	District Support Services	Invo	Dice 88887
			Level 2 Subtotal	\$1,665.00
			Project Total	\$1,822.50
			Total this Report	\$1,822.50



Invoice Number Invoice Date Customer Number Project Number 2345859 January 30, 2025 163739 184032474

Please Remit To

Stantec Consulting Services Inc. (SCSI) 13980 Collections Center Drive Chicago IL 60693 United States Federal Tax ID 11-2167170

Bill To Los Olivos Community Service District Guy Savage PO Box 345 Los Olivos CA 93441 United States

Project Description: Los Olivos to Solvang Sewer Pipeline

Stantec Project Manager:Poytress, Carrie ElizabethAuthorization Amount:\$56,250.00Authorization Previously Billed:\$7,197.00Authorization Billed to Date:\$20,338.50Current Invoice Due:\$13,141.50For Period Ending:January 17, 2025

Invoice email:

GM.LOCSD@gmail.com

Invoice Number Project Number 2345859 184032474

Top Task 300	LOCSD to Solvang Pipeline 30% Design			
Low Task 300.301	Project Management			
Professional Services				
Billing Level		Hours	Rate	Current Amount
Level 14				
		0.75 <b>0.75</b>	261.00	195.75 <b>195.75</b>
Level 15				
		3.00	274.00	822.00
		3.00		822.00
Profe	ssional Services Subtotal	3.75		1,017.75
Low Task 300.301 Subtotal				1,017.75
Low Task 300.302	Utility Research and Base Mapping			
Professional Services				
Billing Level		Hours	Rate	Current Amount
Level 07				
		1.00 1.00	179.00	179.00 179.00
Level TO		11.70	204.00	2,386.00
		11.70		2,386.00
Level 14				
		3.00	261.00	783.00
		3.00		783.00
Level 15		2 00	274.00	000 00
		3.00	Z/4.UU	822.00
Profe	ssional Services Subtotal	18.70		4,170.00

INVOICE		Page 3 of 3
	Invoice Number	2345859
	Project Number	184032474

Low Task 300.302 Subtotal				
Low Task 300.303 Technical Memo	orandum			
Professional Services				
Billing Level		Hours	Rate	Current Amount
Level 14		0.05	0/1.00	
		0.25	261.00	65.25 65.25
Level 15				
		<u>3.25</u> <b>3.25</b>	274.00	890.50 <b>890.50</b>
Professional Services S	Subtotal	3.50		955.75
Low Task 300 303 Subtotal				955 75
Low Task 300.304 30 Percent Desig	gn Documents			
Professional Services				
Billing Level		Hours	Rate	Current Amount
Level 10				
		<u> </u>	204.00	6,998.00 6,998.00
Professional Services S	Subtotal	34.30		6,998.00
Low Task 300.304 Subtotal				6,998.00
Top Task 300 Total				13,141.50
	Total Fees & Disburse	ements		\$13,141.50

\$13,141.50



Invoice Number Invoice Date Customer Number Project Number 2359575 February 27, 2025 163739 184032474

Please Remit To

Stantec Consulting Services Inc. (SCSI) 13980 Collections Center Drive Chicago IL 60693 United States Federal Tax ID 11-2167170

Bill To Los Olivos Community Service District Guy Savage PO Box 345 Los Olivos CA 93441 United States

Project Description: Los Olivos to Solvang Sewer Pipeline

Poytress, Carrie Elizabeth
\$56,250.00
\$20,338.50
\$45,239.50
\$24,901.00
February 14, 2025

Invoice email:

GM.LOCSD@gmail.com

Invoice Number Project Number 2359575 184032474

Top Task 300	LOCSD to Solvang Pipeline 30% Design			
Low Task 300.301	Project Management			
Professional Services				
Billing Level		Hours	Rate	Current Amount
Level 14				
		<u> </u>	261.00	261.00 <b>261.00</b>
Level 15		5 4 9	274.00	1 554 75
		5.68	274.00	1,556.75
Profe	ssional Services Subtotal	6.68		1,817.75
Low Task 300.301 Subtotal				1,817.75
Low Task 300.303	Technical Memorandum			
Professional Services				
Billing Level		Hours	Rate	Current Amount
Level 15		2.07	074.00	940.75
		3.07	274.00	840.75
Profe	ssional Services Subtotal	3.07		840.75
Low Track 200 202 Subtated				940 75
				640.75
Low Task 300.304	30 Percent Design Documents			
Professional Services				
Billing Level		Hours	Rate	Current Amount

INVOICE		Page 3 of 3				
Invoice I Project N	Invoice Number Project Number					
Level 10						
	38.25	204.00	7,803.00			
-	38.25		7,803.00			
Level 14	40.50	0 ( 1 00	10 (50 50			
-	48.50	261.00	12,658.50			
	48.50		12,658.50			
Level 15	6 50	274.00	1 781 00			
-	6.50	274.00	1,781.00			
Professional Services Subtotal	93.25		22,242.50			
Low Task 300.304 Subtotal			22,242.50			
Top Task 300 Total			24,901.00			
Total Fees & Disbursements			\$24,901.00			
INVOICE TOTAL (USD)			\$24,901.00			



1 Park Plaza, Suite 1000 Irvine, CA 92614 P (949) 223-1170 • F (949) 223-1180 awattorneys.com

Federal Tax ID: 55-0814676

### LOS OLIVOS COMMUNITY SERVICES DISTRICT (01245) MONTHLY BILLING SUMMARY

Billing Period: January 2025

Matter Description	Total Hours	Total Fees	Total Costs	Total Other Charges	Total Billed	Comments
0001 General	4.90	912.60	0.00	0.00	912.60	
TOTALS:	4.90	912.60	0.00	0.00	912.60	



1 Park Plaza, Suite 1000 Irvine, CA 92614 Phone: (949) 223-1170 Fax: (949) 223-1180 Federal Tax ID: 55-0814676

February 13, 2025

Bill No. 93376

Los Olivos Community Services District General Manager PO Box 345 Los Olivos, CA 93441

For Legal Services Rendered Through 1/31/25

CLIENT:	01245 - Los Olivos Community Services District
MATTER:	0001 - General

#### **PROFESSIONAL SERVICES**

Date	Attorney	Description	Hours	Amount
01/20/25	SON	CORRESPONDENCE RE BROWN ACT PRESENTATION, PREPARE SLIDES; CORRESPONDENCE RE GRANT FUNDING, AUDIT LETTER	1.20	280.80
01/21/25	SON	CORRESPONDENCE RE BROWN ACT PRESENTATION	0.20	46.80
01/23/25	MDK	ATTEND ZOOM MEETING WITH GM SAVAGE	0.90	210.60
01/23/25	MDK	**(1.00 HR \$ 234 NO CHARGE)** REVIEW OF BUDGET AND OTHER MATERIALS FROM WEBSITE	1.00	N/C
01/23/25	SON	CORRESPONDENCE RE AUDIT LETTER	0.10	23.40
01/23/25	SON	TELEPHONE CONFERENCE WITH GUY, AND MARTIN; CORRESPONDENCE RE AUDIT LETTER; REVIEW COUNTY LETTER RE PIPELINE CAPACITY/LADFCO	1.20	280.80
01/30/25	SON	FINALIZE AUDIT LETTER	0.30	70.20
		Total Professional Services	4.90	\$912.60

#### PROFESSIONAL SERVICES SUMMARY

Code	Name	Hours	Rate	Amount
MDK	Martin D. Koczanowicz	0.90	234.00	210.60

Client: 01245 - Los Olivos Community Services District Matter: 0001 - General			Febru	ary 13, 2025 Page _2
Code	Name	Hours	Rate	Amount
MDK	Martin D. Koczanowicz	1.00	0.00	0.00
SON	Steven O'Neill	3.00	234.00	702.00
	Total Professional Services	4.90		\$912.60
CURRENT BILL TOTAL AMOUNT DUE				\$912.60
Balance Forward:				2,029.20
Total Due:				\$2,941.80

# Please return this page with remittance

to Aleshire & Wynder LLP

Bill Number:	93376
Bill Date:	February 13, 2025
Client Code:	01245
Client Name:	Los Olivos Community Services District
Matter Code:	0001
Matter Name:	General

Total Due:	\$2,941.80
Balance Forward:	2,029.20
CURRENT BILL TOTAL AMOUNT DUE	\$912.60
Total Disbursements:	0.00
Total Professional Services:	912.60

Amount enclosed: \_\_\_\_\_

Thank You

# INVOICE

#### FROM:

Guy W. Savage PO Box 894 Los Olivos, Ca 93441

#### BILL TO:

Via electronic delivery President Julie Kennedy Los Olivos Community Services District PO Box 345 Los Olivos, Ca 93441

Invoice #: 20252 Invoice Date: 3/1/2025

Dear President Kennedy,

Please see the below for professional services provided, plus any expenditures made on behalf of the District. The attached tally of hours (units) exceeds those being billed below. This is being done to track the hours for future reference. Per agreement, the hours will be capped at thirty (30) or as authorized by the District.

Date	Description	Units -		Rate	•	Amount	
3/1/2025	General Manager Services - LOCSD (1/30/25-2/28/25) See Attached for Details	40	40 \$		00	\$ 5,800.00	
Total						\$ 5,800.00	

Thank you for your continued support.

Syll Sy-

Email: <u>GM.LOCSD@gmail.com</u> Page **1** of **1** 

	Grant					Amount Grant	
Date	Description	Hours	Reimbursable	Rate	Amount	Reimbursable	
2-Feb	o Emails	0.25	\$	145.00	\$ 36.25	\$ -	
3-Feb	• Emails, meeting coordination	0.5	\$	145.00	\$ 72.50	\$ -	
4-Feb	Form 700, CSDA updates, emails, Brown Act, audit, mtg coord	1.75	\$	145.00	\$ 253.75	\$ -	
6-Feb	o Kennedy, Social Media	1.5	\$	145.00	\$ 217.50	\$ -	
	Prop 218, meeting prep, emails	2	\$	145.00	\$ 290.00	\$ -	
	2/12 Regular meeting agenda	2.25	\$	145.00	\$ 326.25	\$ -	
	Schedule development/milestones	0.5	\$	145.00	\$ 72.50	\$ -	
7-Feb	Finance subcommittee	1	\$	145.00	\$ 145.00	\$ -	
	CCRWQCB/EHS meeting (inc. 1/2 travel), Kennedy post meet	2.5	\$	145.00	\$ 362.50	\$ -	
9-Feb	2/12 Regular meeting packet/post, website updates	1	\$	145.00	\$ 145.00	\$ -	
10-Feb	<ul> <li>Tech and Grants subcommittee agendas, post</li> </ul>	0.75	\$	145.00	\$ 108.75	\$ -	
11-Feb	e Emails, invoices	1.25	\$	145.00	\$ 181.25	\$ -	
12-Feb	o Kennedy meeting, Fayram meeting	1	\$	145.00	\$ 145.00	\$ -	
	CoSB Workday implementation workshop	1	\$	145.00	\$ 145.00	\$ -	
	Regular meeting	3.5	\$	145.00	\$ 507.50	\$ -	
13-Feb	<ul> <li>Regular meeting minutes, video post on YouTube</li> </ul>	0.5	\$	145.00	\$ 72.50	\$ -	
	Follow up from Regular meeting direction, schedule, emails, invoices	4.25	\$	145.00	\$ 616.25	\$ -	
	Meeting w/City of Solvang	1.5	\$	145.00	\$ 217.50	\$ -	
14-Feb	Tech and Grants subcommittee meetings	3	\$	145.00	\$ 435.00	\$ -	
	Tech and Grants minutes, post video, prior minutes post	1	\$	145.00	\$ 145.00	\$ -	
	Project Management Subcommittee agenda	0.5	\$	145.00	\$ 72.50	\$ -	
	Emails, meeting coordination	0.25	\$	145.00	\$ 36.25	\$ -	
18-Feb	Emails, bill payment	0.25	\$	145.00	\$ 36.25	\$ -	
20-Feb	Decision matrix, project plan	3.25	\$	145.00	\$ 471.25	\$ -	
21-Feb	Project Management Subcommittee	2	\$	145.00	\$ 290.00	\$ -	
	Kennedy meeting	0.75	\$	145.00	\$ 108.75	\$ -	
	Project Management Subcommittee minutes, video post	0.5	\$	145.00	\$ 72.50	\$ -	
	Audit follow-up	0.25	\$	145.00	\$ 36.25	\$ -	
	Decision matrix, project plan	2	\$	145.00	\$ 290.00	\$ -	
24-Feb	Emails, bill follow-up	0.5	\$	145.00	\$ 72.50	\$ -	
25-Feb	CCRWCQB discussion, City of Solvang follow-up	1.25	\$	145.00	\$ 181.25	\$ -	
26-Feb	LAFCO letter	0.5	\$	145.00	\$ 72.50	\$ -	
	Totals	43	0		\$ 6,235.00	\$ -	
	Grand Totals	Hours	43.00			\$ 6,235.00	



#### Re: Request to exceed 30 hours

1 message

Julie Kennedy <julie.kennedy.locsd@gmail.com> To: General Manager - LOCSD <gm.locsd@gmail.com> Fri, Feb 14, 2025 at 10:09 AM

Yes, absolutely. I know there is a lot of activity coming up during the next several months, so please reach out to me and the other board members for help.

Julie Kennedy , Los Olivos Community Services District



Phone: 805.946.0431 Mobile: 805.693.4077 Email: julie.kennedy.locsd@gmail.com Website: www.losolivoscsd.com Address: PO Box 345, Los Olivos, CA 93441

On Thu, Feb 13, 2025 at 5:23 PM General Manager - LOCSD <gm.locsd@gmail.com> wrote: Julie,

I expect to spend a lot of time working on schedules this month. I also expect to hold a meeting of all four subcommittees, plus the regular meeting yesterday. This all in addition to meetings with other interested parties (CCRWQCB, EHS, City of Solvang, Dunn?). Consequently, I would like to request up to 10 extra hours this month. I'm at 27 hours at the moment. As I've often done in the past, I'll cap the hours billed at 40, regardless of how many it ends up being this month.

Guy

Guy Savage General Manager Los Olivos Community Services District PO Box 345, Los Olivos, CA 93441 (805) 500-4098 www.LosOlivosCSD.com

# **ITEM 7 – DECISION MAKING MATRIX**

Agenda Packet Page 35 of 93

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Image: Point construction         Proof work cont			Ownership			,				<b>├</b> ──┤	
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Instance         Index		Middle miles	(IOCSD to Dunn)	ves	Use Stantec report to calc	ves	Savage				
Treatment         Image				100		,	Savage				
Solvang         <	Treatment							Spill			<u> </u>
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Solvage - Shared infrastructure         Pay line upgrades?         Savage         yes         Savage         n <td></td> <td>Solvang</td> <td>Contract with City of Solvang</td> <td>buy in cost (inic upgrudes:)</td> <td>Suvage</td> <td>yes</td> <td>Savage</td> <td></td> <td></td> <td>┟────┦</td> <td></td>		Solvang	Contract with City of Solvang	buy in cost (inic upgrudes:)	Suvage	yes	Savage			┟────┦	
		Solvang - Sha	red infrastructure	Pay line ungrades?	Savage	Ves	Savage			┢────┦	
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$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Local - Dunn		Ves	Savage / Clocina	yes	Savage / clocina			┟────┦	
		Local - Availa	he sites for treatment facility	yes	Suvuge					┢────┦	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Local - Availa	bit of qualified operators (certifications)							<b>├</b> ───┤	
Status Quo       Initial a construct of status of statu		Local - What	hannens to Mattei's existing system								
Risks, inpacts, etc.Image: market set set set set set set set set set s	Status Ouo	Local What								┟───┤	
Advanced OnsiteImage: Number of the property of the	Status Quo	Risks impacts	s etc					Letter re:consequences	CCRWOCR	┢────┦	
Advanced Ontitie         Image: constraint of the part of t		Trisks, impace							centrace	<b>├</b> ───┤	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Advanced Onsite										
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Auvunceu onsite	Can it he a Pla	an B annroach if Pron 218 fails							┟───┤	
Is it ruly an option for "all" parciesImage: constraint of the system (s) is it ruly an option for "all" parciesImage: constraint of the system (s) is it ruly an option for "all" parciesImage: constraint of the system (s) is it ruly an option for "all" parciesImage: constraint of the system (s) is it ruly an option for "all" parciesImage: constraint of the system (s) is it ruly an option for "all" parciesImage: constraint of the system (s) is it ruly an option for "all" parciesImage: constraint of the system (s) is it ruly an option for "all" parciesImage: constraint of the system (s) is it ruly an option for "all" parciesImage: constraint of the system (s) is it ruly an option for "all" parciesImage: constraint of the system (s) is it ruly an option for "all" parciesImage: constraint of the system (s) is it ruly an option for "all" parciesImage: constraint of the system (s) is it ruly an option for "all" parciesImage: constraint of the system (s) is it ruly an option for "all" parciesImage: constraint of the system (s) is it ruly an option for "all" parciesImage: constraint of the system (s) is it ruly an option for "all" parciesImage: constraint of the system (s) is it ruly an option for "all" parciesImage: constraint of the system (s) is it ruly and the		Is it viable fro	m a CCRWOCB perspective							┢────┦	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Is it truly an o	ntion for "all" narcels								
Grants       Image: mark of the set higher likelihood of obtaining grants (or more grants)       Image: mark of the set higher likelihood of obtaining grants (or more grants)       Image: mark of the set higher likelihood of obtaining grants (or more grants)       Image: mark of the set higher likelihood of obtaining grants (or more grants)       Image: mark of the set higher likelihood of obtaining grants (or more grants)       Image: mark of the set higher likelihood of obtaining grants (or more grants)       Image: mark of the set higher likelihood of obtaining grants (or more grants)       Image: mark of the set higher likelihood of obtaining grants (or more grants)       Image: mark of the set higher likelihood of obtaining grants (or more grants)       Image: mark of the set higher likelihood of obtaining grants (or more grants)       Image: mark of the set higher likelihood of obtaining grants (or more grants)       Image: mark of the set higher likelihood of obtaining grants (or more grants)       Image: mark of the set higher likelihood of obtaining grants (or more grants)       Image: mark of the set higher likelihood of obtaining grants (or more grants)       Image: mark of the set higher likelihood of obtaining grants       Image: mark of the set higher likelihood of like likelihood of progrants       Image: mark of the set higher likelihood of likelihood likelihood likelihood of likelihood of likelihood li		is it truly un c									<u> </u>
Which system(s) have a higher likelihood of obtaining grants (or more grants)       Image: constraint of the system (s) have a higher likelihood of obtaining grants (or more grants)       Image: constraint of the system (s) have a higher likelihood of obtaining grants (or more grants)       Image: constraint of the system (s) have a higher likelihood of obtaining grants (or more grants)       Image: constraint of the system (s) have a higher likelihood of obtaining grants (or more grants)       Image: constraint of the system (s) have a higher likelihood of obtaining grants (or more grants)       Image: constraint of the system (s) have a higher likelihood of obtaining grants (or more grants)       Image: constraint of the system (s) have a higher likelihood of obtaining grants (or more grants)       Image: constraint of the system (s) have a higher likelihood of obtaining grants (or more grants)       Image: constraint of the system (s) have a higher likelihood of obtaining grants (or more grants)       Image: constraint of the system (s) have a higher likelihood of obtaining grants (or more grants)       Image: constraint of the system (s) have a higher likelihood of hold of the system (s) have a higher likelihood of hold of higher higher likelihood of higher higher likelihood of hold of higher higher likelihood of hold of higher higher likelihood of hold of higher higher higher likelihood higher hig	Grants										
Phase in districtImage in districtI	Grands	Which system	have a higher likelihood of obtaining grants (or more grants)							┢────┦	
Index <th< td=""><td></td><td></td><td>Phased in district</td><td></td><td></td><td></td><td></td><td></td><td></td><td> </td><td></td></th<>			Phased in district								
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			Connect to Solvang							<b>├</b> ───┤	
Disposal       Image: marginal strength of the streng											
Solvang included in Treatment discussion         Image: Constraint of the second s	Disposal									┢────┦	
Average between recorden r	Disposal	Solvang inclu	l ded in Treatment discussion							┢────┥	
Permits       Notation of population       Image: constraint of popula		Available site	s for Disposal								<u> </u>
Permits       Image: Constraint of the system											
Discharge permit     yes     Savage     Spill risk collection and transmission       Image: Constraint of the second s	Permits									┟────┦	
Acquisition of property Acquisition of property Tarsfer of risk (for example from LOCSD to City of Solyang)	i crimes	Discharge per	mit			Vec	ADEVICZ	Spill risk collection and trans	mission	<u>├</u> ───┤	
Comparison of property		Discharge per				yes	Javage	Acquistion of property	111331011	<u>├</u> ───┤	
								Transfer of risk (for example	from LOCS	D to City of	Solvang)
								inansier of fisk (for example	ITOITI LOCSI		Joivalig
	Othors			+						┝────┤	
Need to poll community on desired approach	others	Need to poll	l community on desired annroach							<b>├</b> ───┤	
Assessment Engineer Report		Assessment E	ingineer Report							<u>├</u> ───┤	
Pate Report repo		Rate Study								<b>├</b> ───┤	
	Existir	ng Flows	20-Year Buildo	ut Design Flows	А	DUs	20-Year Buil	dout w/ADUs			
--	-------------	-------------	----------------	-----------------	-------	-------------	--------------	-------------			
		Max Monthly		Max Monthly		Max Monthly		Max Monthly			
	Daily	(Peak)	Daily	(Peak)	Daily	(Peak)	Daily	(Peak)			
	*ADF	*MDF	*ADF	*MDF	*ADF	*MDF	*ADF	*MDF			
Zone 1 - Commercial	24,789	79,325	40,635	130,032	-	-	40,635	130,032			
Zone 1 - Residential	3,010	9,632	3,118	9,978	-	-	3,118	9,978			
Zone 2 - Residential lots near downtown ("small lots")	10,535	33,712	10,750	34,400	-	-	10,750	34,400			
Zone 3 - Remaining Lots	58,074	185,837	63,252	202,406	2,580	8,256	65,832	210,662			
Total	96,408	308,506	117,755	376,816	2,580	8,256	120,335	385,072			
Peaking Factor	3.2										
	Existin	ng Flows	20-Year Build	lout w/ADUs							
		Max Monthly		Max Monthly							
	Daily (GPD)	(Peak GDP)	Daily (GPD)	(Peak GPD)							
Zone 1 - Commercial	24,789	79,325	40,635	130,032							
Zone 1 - Residential	3,010	9,632	3,118	9,978							
Zone 2 - Residential lots near downtown ("small lots")	10,535	33,712	10,750	34,400							
Zone 3 - Remaining Lots	58,074	185,837	65,832	210,662							
Total	96,408	308,506	120,335	385,072							

	Costs					I	1	Dier	untion		1		
Sector State		Operations	& Maintenance (O&M)	- annual	Approval by	Grant Botontial	Bicke	Const	ruction	On-G	ioing	Notes	
Guy Savage:	Capital	Individual Parc	el Community	Total	EHS / RWQCB	Grant Potential	KISKS	Community	Individual	Community	Individual		
Collection 572			-						Parcel	-	Parcel		
Gravity Fed	¢ 27.938.000	Ś.,	¢ 80.357	\$ 80.352	Ver	Vec		Medium	Lower	Low	Very Low		
Effluent - option b (inc. \$6,685,000 in tanks)	\$ 21,637,095	\$ 13	3 \$ 60;264	\$ 109,740	Yes	Less likely if owned by property owner (except lower income)		Low	Higher	Low	High	Additional O&M costs assuming District owns and maintains tanks and pumps on individual parcels, does not include on-site electrical costs	
Hybrid (Gravity-downtown&small, effluent) - option a	\$ 25,530,016	\$ 13	3 \$ 69,304	\$ 111,066	Yes	Less likely if owned by property owner (except lower income)		Medium	Medium	Low	Medium		
			Guy Savage:		Guy Savage								
Data Points (30 year, 5% loan, annual prop tax payment)	Total Capital Cost / Parcel	Annual	one hour (annual pump r	maint) plus two	Difference be	etween SY and Solvang monthly							
Gravity Fed (all parcels same)	\$ 75,102	\$ 4,886	hours to pump every 5 y	ears	rates is extra	collection lines, times number of							
Effluent - option b (all parcels same)	\$ 58,164	\$ 3,784	DOES NOT INCLUDE ELE	CIRICITY	connections,	diffes 12					-		
Hybrid (Gravity-downtown&small, effluent) - option a (all parc	\$ 68,629	\$ 4,464											
Tractment													
Local - MBR	\$ 19,900,000 \$ 12,580,000	\$ 1,07	5 \$300,000-400,000		Yes	Yes Yes		Medium	None	Low	None	\$125,000 estimate from Cloacina partner for equipment consumables, spare parts, replacement, power, labor, chemicals; O&M number includes all costs including disposal, waste hauling	
city of solvang connection (includes Disposal)	Ş 12,500,000		0	1	163	163		Weddini	None	LOW	None		
Data Points (30 year, 5% loan, annual prop tax payment)	Total Canital Cost	Annual Monthly	<hr/>										
Local - MBR (all parcels same)	\$ 53.495	\$ 3,480 \$ 89,6	Guy Savage:	antimated as 20	12								
City of Solvang connection (all parcels same)	\$ 33.817	\$ 2,200 \$ 68.8	7 parcels * \$15,000	(Solvang cost to	new								
	+	· -/ ·	homes), \$3.5M for	Solvang lines									
SY CSD Totals	Connect charge	Monthly	upgrade, \$3.5 for	pipeline down A	P -								
Single Family	\$75,000-100,000	\$ 86.8	Z DRAFT NUMBER!!	!									
Single Family add unit		\$ 64.6	5										
Hotel per room no kitchen		\$ 40.4	1										
Restaurant		\$ 426.6	7										
Wine taste no food		\$ 109.1	0										
Elementary school per student		\$ 2.6	1										
			_			Less likely if even ad hy even acts even at							
Advanced On-site	\$30,000-70,000	\$1,500-\$1,900			Yes*	(except lower income)		Very Low	High	Very Low	High		
Effluent Disposal													
Percolation Ponds	\$ 2,200,000		minimal		Yes			Low	Low	Low	Low	1.5 acres, with 100% redundancy	
Percolation Chambers	\$ 5,200,000		minimal		Yes			Low	Low	Low	Low	4 acres, including 100% redundancy	
Shallow Aquifer Injection Wells	\$ 1,400,000		\$3,000,000- 4,000,000		Yes			Low	Low	Low	Low	Assumes 3 injection wells, \$300k/well	
<< reuse >> as additive to one of the above	Site specific		unknown		Yes	Yes							

Cost Component (per parcel, annual)		Gravity,	MBR, Perc	Effluent, MBR, Perc			avity, Solvang	Effluent, Solvang		
Gravity Capital	\$ 4,885.50	\$	4,885.50			\$	4,885.50			
Gravity O&M	\$ 216.00	\$	216.00			\$	216.00			
Effluent Capital	\$ 3,783.67			\$	3,783.67			\$	3,783.67	
Effluent O&M	\$ 295.00			\$	295.00			\$	295.00	
MBR Capital	\$ 3,479.90	\$	3,479.90	\$	3,479.90					
MBR O&M	\$ 1,075.27	\$	1,075.27	\$	1,075.27					
Solvang Capital	\$ 2,199.86					\$	2,199.86	\$	2,199.86	
Solvang O&M	\$ 826.44					\$	826.44	\$	826.44	
Perc Capital	\$ 909.32	\$	909.32	\$	909.32					
Perc O&M	\$ -	\$	-	\$	-					
TOTAL		\$	10,565.99	\$	9,543.16	\$	8,127.80	\$	7,104.96	
Notes: All parcels treated the same										
All capital assume 5% loan, 30 year										

# **ITEM 8 – BUDGET AND STRATEGIC PLANNING**

# FY 2025-26 Budget Process and Timeline Review

	PROPOSED STEPS	DATE
1	DRAFT Budget to Finance Subcommittee	4/4/2025
2	Budget Workshop, after Regular Meeting concludes	4/9/2025
3	GM prepares recommended DRAFT Budget	4/30/2025
4	Finance Committee prepares and approves recommended DRAFT Budget to present to Board	5/9/2025
5	Board Approves a PRELIMINARY budget at a Regular Meeting and determines a Hearing Date, after Community Workshop concludes	5/14/2025
6	The District will publish a notice stating that the GM has prepared a proposed final budget which is available for inspection on the website; and include the date, time, and place when the Board will meet to adopt the final budget and that any person may appear and be heard regarding any item in the budget or regarding the addition of other items. Publication must be at least 2 weeks before Budget adoption meeting in at least one newspaper of general circulation in the district. NOTE: The notice must be PUBLISHED at least two weeks before the hearing, (Santa Maria Times). It only needs to be published one time. Post DRAFT Budget on Website.	5/20/2024 - publication must be at least 2 weeks before 6/11/2025 meeting
7	FINAL Budget hearing, part of Regular Meeting	6/11/2025
8	Post FINAL Budget on website	6/20/2025

Los Olivos Community Services District																		
FY 2023-24 Budget (DRAFT)																		
			EV 2	000 04			EV 2024 22		-	EV 2022 22			EV 202	24		EV 2024 25	EV 2025 26	
Line Item Account	FY 202	0-21	(a	1020-21	FY 2021-2	22	(as of	FY 2022-23	l v	TD Actuals	FY	2023-24	Buda	9-24 et	FY 2024-25	Budget (as	PROPOSED	Notes
	Budg	jet	6/30	/2021)	Budget		6/30/2022)	Budget	(as	s of 6/30/23)	В	Budget	(as of 4/1	1/24)	Budget	of 2/28/25)	Budget	
Beginning Balance	\$ 193	8,885	\$1	193,885	\$ 213,37	70 3	\$ 213,370	\$ 136,475	\$	136,475	\$	48,678	\$ 87	,567	\$ 315,526	Í Í		
Revenues																		
Taxes																		
3066 Special Tax Assessment	\$ 188	,887	\$ 19	97,023	\$ 196,25	3 5	\$ 200,931	\$ 203,121	\$	227,650	\$	227,650	\$ 140,	740	\$ 236,756			Assumes 4% YOY from prior
Taxes	\$ 188	,887	\$ 1	97,023	\$ 196,25	3 5	\$ 200,931	\$ 203,121	\$	227,650	\$	227,650	\$ 140,	740	\$ 236,756			
Use of Money and Property																		
3380 Interest Income			\$	839	\$-		\$ 764	\$ 724	\$	1,191	\$	744	\$	877	\$ 3,485			YTD
3381 Unrealized Gain/Loss Invstmnts			\$	(1,157)	\$ (8	0) \$	\$ (6,602)		\$	-			\$	-	\$ -			
Use of Money and Property			\$	(319)	\$ (8	0) \$	\$ (5,838)	\$ 724	\$	1,191	\$	744	\$	877	\$ 3,485			
Intergovernmental Revenue	\$	-																
4339 State - Other	\$ 180	,000,	\$ 4	44,986	\$ 274,00	0 5	\$ 43,386	\$ 169,804	\$	30,131	\$	-	\$ 75,	000	\$-			
4840 Other Governmental Agencies													\$ 30,	000	\$-			
Intergovernmental Revenue-Other													\$ 105,	000	\$ -			
Miscellaneous Revenue																		
5895 and 5909 Donations													\$ 75,	020				
Miscellaneous Revenue	\$ 180	,000,	\$ 4	44,986	\$ 274,00	0 \$	\$ 43,386	\$ 169,804	\$	30,131	\$	-	\$ 75,	020	\$ -			
Total Cash & Revenues	\$ 562	,772	\$ 4	35,575	\$ 683,54	3 \$	\$ 451,849	\$ 510,124	\$	395,447	\$	277,072	\$ 409,	204	\$ 555,767			
Expenditures																		
Services and Supplies																		
7090 Insurance	\$ 2	,320	\$	-	\$ 2,50	0 5	\$ 162	\$ 2,500	\$	2,800	\$	2,934	\$ 2,	933	\$ 2,787			Per SDRMA letter date 4/17/2024
7324 Audit and Accounting Fees	\$ 4	,000,	\$	2,000	\$ 4,00	0 5	\$ 178	\$ 4,000	\$	7,775	\$	2,500	\$	426	\$ 2,900			1-year est MLH
7325 Other Professional Services (Well Testing)			\$	-	\$ 10,00	0 5	- \$		\$	-					\$ 12,300			Twice a year, all 5 wells, nitrates only
7430 Memberships	\$ 1	,200	\$	3,533	\$ 1,20	0 5	\$ 1,102	\$ 1,200	\$	1,287	\$	1,300	\$1,	244	\$ 1,300			
7450 Office Expense	\$ 2	,000,			\$ 2,00	0 5	\$ 600	\$ 2,000	\$	-								
																		connecting to the City of Solvang;
																		60% Design \$300k+ (\$100,000 towards this effort);
																		Treatment Study \$90k+;
																		Assessment Engineering Report \$50k+; FIR \$150k+:
																		Polling for election feasibility \$25k+;
7460 Professional & Special Service (Project, Planning & Studies)	\$ 193	,500	\$	54,191	\$ 439,00	0 5	\$ 156,283	\$ 189,908	\$	219,384	\$	78,886	\$ 79,	143	\$ 160,000			Voting process \$125k+
	<b>A A</b>										•							YTD 9 month average plus April, May, June; plus
7508 Legal Fees	\$ 27	,000	\$	17,921	\$ 27,00	0 8	\$ 27,165	\$ 30,000	\$	36,481	\$	45,529	\$ 20,	236	\$ 28,061			contractual increases
7510 Contractual Services (IGM Contract, Engineer)	\$ 80	.400	\$	95.023	\$ 67.00	0 5	\$ 103.038	\$ 49.000	\$	79.041	\$	98.643	\$ 76.	032	\$ 105.431			contractual increases
					. ,	T			1	.,					,			Budget notices + 5 workshops mailers, etc. at
7530 Publications & Legal Notices	\$ 1	,000,	\$	-	\$ 5,00	0 5	\$ -	\$ 5,000	\$	-	\$	1,750			\$ 1,750			\$300 per workshop
7671 Special Projects	\$ 8	,000	\$	-	\$ 15,00	0 9	5 -	\$ 175,000	\$	-			\$	574	\$ -			
7732 Training	\$ 1	,500	\$	-	\$ 1,50	0 5	\$-	\$ 1,500	\$	-					\$ -			
Services and Supplies	\$ 320	,920	\$ 1	72,668	\$ 574,20	0 9	\$ 288,527	\$ 460,108	\$	346,769	\$	231,542	\$ 180,	587	\$ 314,529			
Other Charges	-		\$	-	\$ -		5 -	\$ -	\$	-	\$	-			<u>\$</u> -			
7894 - Communication Services	\$	930	\$	600	\$ 93	0 9	ş -	\$ -	\$	-	\$	-			\$ -			
Other Charges	\$	930	\$	600	\$ 93	0 9	<b>\$</b> -	ş -	\$	-	\$	-	\$	-	<del>\$</del> -			
Operational Reserve											\$	45,530			\$ 47,351			20% of Special Tax Revenues
Reserve									\$	-	\$	45,530	\$	-	\$ 47,351			
Total Expenditures	\$ 321	,850	\$ 1	73,268	\$ 575,13	0 \$	\$ 288,527	\$ 460,108	\$	346,769	\$	277,072	\$ 180,	587	\$ 361,880			
Ending Balance	\$240,	922	\$26	2,307	\$108,41	3 :	\$163,321	\$ 49,293	\$	48,678	\$	0	\$ 228,6	617	\$ 193,888			
														]				

		2025 2026 2027									<b>T</b> 1 1 0	Funds
Task	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Lead	Total Costs	Available?
Board and Public Education												
Public workshops and outreach										Board		
		Project w	orkshop	First real	218 worksh	юр	Voting wo	orkshop				
Engineering / Design												
City of Solvang Treatment/Disposal - Technical Study / Design										Tech	\$ 60k	Y
Project Description										Board		
		* Decision	n on projec	t								
80% Design										Tech	\$ 300k+	Y
Assessment Engineer Report including benefit factors/rates										Finance	\$ 100k+	N
Finalize siting options (for local option)										PM		
Environmental Review												
Environmental study, assessment and report (incl. public review)										New Comm	\$ 150k+	Y
Grants and Financing												
Develop financing plan	4									Grants		
Seek grants and financing										Grants		
Prop 218 - Property Owner vote on proposed project												
Polling for election feasibility										PM	\$ 25K	Ν
Conduct Prop 218 workshops with public										PM		
Voting process								<mark>218 Vo</mark>	te	Board	\$ 125k	Ν
									-	Total	\$ 760k+	1

DRAFT

LOCED Sontic to Sower / Water Performation Readman, WORKING DRAFT

# **ITEM 9B – GM AND DE REPORTS**

# Summary Project Status Report

City of Solvang possible connection	Budget:	Schedule:							
Met with Stantec 30% design / conceptual model for force main down Alamo Pintado									
Continuing to refine decision matrix									
Audit (Moss, Levy & Hartzheim)	Budget:	Schedule:							
2023-24 Audit – part of this report, filed with State of California									

Other:

- Met with potential new owners of Sahm property to share plans
- Continued community outreach related to potential Solvang connection

		20	)25			20	026		2027	Land	Tatal Casta	Funds
Task	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	read	Total Costs	Available?
Board and Public Education												
Public workshops and outreach										Board		
		Project w	orkshop	First real	218 worksh	юр	Voting w	orkshop				
Engineering / Design												
City of Solvang Treatment/Disposal - Technical Study / Design										Tech	\$ 60k	Y
Project Description										Board		
		* Decision	n on projec	t								
80% Design										Tech	\$ 300k+	Y
Assessment Engineer Report including benefit factors/rates										Finance	\$ 100k+	Ν
Finalize siting options (for local option)										PM		
Environmental Review												
Environmental study, assessment and report (incl. public review)										New Comm	\$ 150k+	Y
Grants and Financing												
Develop financing plan	2									Grants		
Seek grants and financing										Grants		
Prop 218 - Property Owner vote on proposed project												
Polling for election feasibility										PM	\$ 25K	Ν
Conduct Prop 218 workshops with public										PM		
Voting process								<mark>218 Vo</mark>	<mark>r</mark> te	Board	\$ 125k	Ν
				-								
										Total	\$ 760k+	

DRAFT

LOCED Sontic to Sower / Water Performation Readman, WORKING DRAFT

### 2/20/2025

### LOS OLIVOS COMMUNITY SERVICES DISTRICT

FINANCIAL STATEMENTS June 30, 2024

### LOS OLIVOS COMMUNITY SERVICES DISTRICT TABLE OF CONTENTS June 30, 2024

### FINANCIAL SECTION

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Statement of Revenues, Expenses, and Changes in Net Position – Proprietary Fund	4
Statement of Cash Flows – Proprietary Fund	. 5
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### FINANCIAL SECTION



#### **INDEPENDENT AUDITORS' REPORT**

The Board of Directors Los Olivos Community Services District Los Olivos, California

#### **Report on the Financial Statements**

#### **Opinions**

We have audited the accompanying financial statements of the Los Olivos Community Services District (the District) as of and for the fiscal year ended June 30, 2024, and the related notes to the financial statements, which collectively comprise the District's basic financial statements as listed in the table of contents.

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the Los Olivos Community Services District, as of June 30, 2024, and the respective changes in financial position thereof and, where applicable, cash flows thereof for the fiscal year then ended in accordance with accounting principles generally accepted in the United States of America.

#### **Basis for Opinions**

We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Los Olivos Community Services District and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

#### **Responsibilities of Management for the Financial Statements**

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Los Olivos Community Services District's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

#### Auditors' Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinions. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with generally accepted auditing standards and *Government Auditing Standards* will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

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In performing an audit in accordance with generally accepted auditing standards and Government Auditing Standards, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Los Olivos Community Services District's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Los Olivos Community Services District's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

#### **Required Supplementary Information**

Management has omitted management's discussion and analysis that accounting principles generally accepted in the United States of America require to be presented to supplement the basic financial statements. Such missing information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of the financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. Our opinion on the basic financial statements is not affected by this missing information.

#### Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated February 21, 2025, on our consideration of the Los Olivos Community Services District's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the District's internal control over financial reporting and compliance.

Moss, Ling & Haugheim LLP

Santa Maria, CA February 21, 2025

### **LOS OLIVOS COMMUNITY SERVICES DISTRICT** STATEMENT OF NET POSITION - PROPRIETARY FUND June 30, 2024

### ASSETS

Current Assets:	
Cash in county treasury	\$ 319,100
Interest receivable	2,259
Total current assets	321,359
Noncurrent Assets:	
Construction in progress	278,160
Capital assets, net	120,392
Total noncurrent assets	398,552
Total assets	719,911
LIABILITIES	
Accounts navable	31 167
Total liabilities	31,167
NET POSITION	
Net investment in capital assets	398,552
Unrestricted	290,192
Total net position	\$ 688,744

The notes to basic financial statements are an integral part of these basic financial statements.

### **LOS OLIVOS COMMUNITY SERVICES DISTRICT** STATEMENT OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION -PROPRIETARY FUND For the Fiscal Year Ended June 30, 2024

Operating Expenses:		
Office expense	\$	756
Professional services		39,835
Insurance		2,933
Contractual services		88,484
Other services and supplies		1,244
Special projects		574
Depreciation		3,803
Total operating expenses		137,629
Operating Loss		(137,629)
Non-Operating Revenues (Expenses):		
Interest income		6,016
Assessments		239,513
Intergovernmental revenue		180,508
Miscellaneous revenue		20,020
Total Non-Operating Revenues (Expenses)		446,057
Change in net position		308,428
Net Position		
Net Position, beginning of fiscal year		380,316
Net Position, end of fiscal year	<u></u>	688,744

The notes to basic financial statements are an integral part of these basic financial statements.

Payments to vendors	\$ (127,395)
Net cash used by operating activities	 (127,395)
CASH FLOWS FROM NONCAPITAL FINANCING ACTIVITIES	
Miscellaneous revenue	20,020
Property assessments	239,513
Intergovernmental revenue	 180,508
Net cash provided by noncapital financing activities	 440,041
CASH FLOWS FROM INVESTING ACTIVITIES	
Purchase of fixed assets	(146,971)
Interest received	 4,500
Net cash used by investing activities	 (142,471)
Net increase in cash and cash equivalents	170,175
Cash and cash equivalents - July 1, 2023	 148,925
Cash and cash equivalents - June 30, 2024	\$ 319,100
Reconciliation to Statement of Net Position:	
Cash in county treasury	\$ 319,100
Reconciliation of operating loss to net cash used by operating activities:	
Operating loss	\$ (137,629)
Adjustments to reconcile operating loss to net cash used by operating activities:	3 803
Change in assets and liabilities:	5,005
Accounts payable	 6,431
Net cash used by operating activities	\$ (127,395)

The notes to basic financial statements are an integral part of these basic financial statements.

#### NOTE 1 - ORGANIZATION

The Los Olivos Community Services District is an independent governmental unit within the unincorporated area of the County of Santa Barbara and derives its decision-making capabilities from State legislation. The District is governed by a Board of Directors elected to serve four-year terms. The primary purpose of the District is the building and operation of facilities needed to collect, treat, and dispose of sewage, wastewater, recycled water, and storm water.

There are no component units included in this report which meet the criteria of the Governmental Accounting Standards Board (GASB) Statement No. 14, *The Financial Reporting Entity*, as amended by GASB Statements No. 39, No. 61, No. 80 and No. 90.

#### **NOTE 2 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES**

A. <u>Accounting Policies</u> - The accounting policies of the District conform to accounting principles generally accepted in the United States of America as prescribed by the Governmental Accounting Standards Board (GASB) and the American Institute of Certified Public Accountants (AICPA).

In accordance with GASB Statement No. 20, Accounting and Financial Reporting for Proprietary Funds and Other Governmental Entities That Use Proprietary Fund Accounting, the District has opted to apply all applicable GASB pronouncements and all FASB Statements and Interpretations, Accounting Principles Board (APB) Opinions, and Accounting Research Bulletins (ARB) issued on or before November 30, 1989, unless they conflict with or contradict GASB pronouncements.

- B. <u>Accounting Method</u> The District is organized as an Enterprise Fund and follows the accrual method of accounting, whereby revenues are recorded when earned and expenses are recorded when incurred.
- C. Fund Financial Statements The fund financial statements provide information about the District's proprietary fund.

Proprietary fund operating revenues, such as charges for services, result from exchange transactions associated with the principal activity of the fund. Exchange transactions are those in which each party receives and gives up essentially equal values. Nonoperating revenues, such as subsidies and investment earnings, result from nonexchange transactions or ancillary activities.

GASB Statement No. 34 defines major funds and requires that the District's major business-type fund be identified and presented separately in the fund financial statements.

Major funds are defined as funds that have assets, liabilities, revenues, or expenses equal to ten percent of their fundtype total and five percent of the grand total. The District maintains one proprietary fund.

#### Proprietary Fund Type

Enterprise Fund:

Enterprise fund is used to account for operations (a) that are financed and operated in a manner similar to private business enterprises – where the intent of the governing body is that the costs (expenses, including depreciation) of providing goods or services to the general public on a continuing basis be financed or recovered primarily through user charges; or (b) where the governing body has decided that periodic determination of revenues earned, expenses incurred, and/or net income is appropriate for capital maintenance, public policy, management control, accountability, or other purposes.

The District reported its enterprise fund as a major fund in the accompanying basic financial statements.

<u>Sewer Fund</u> – The Sewer Fund is to account for the provision of sewer services to the residents of the District.

D. <u>Cash and Cash Equivalents</u> – For purposes of the statement of cash flows, cash and cash equivalents include restricted and unrestricted cash and investments with original maturities of three months or less.

### NOTE 2 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

- E. <u>Property, Plant and Equipment</u> Capital assets purchased by the District are recorded at cost. Contributed or donated capital assets are recorded at fair value when acquired.
- F. <u>Depreciation</u> Capital assets purchased by the District are depreciated over their estimated useful lives (ranging from 5-50 years) under the straight-line method of depreciation according to the following schedule:

Item	Years
Office Furniture and Equipment	5
Plant Equipment	10-20
Manholes, Laterals, and Sewer lines	30
Treatment Plant Structures	30-50

- G. <u>Receivables</u> The District did not experience any significant bad debt losses; accordingly, no provision has been made for doubtful accounts and accounts receivable are shown at full value.
- H. <u>Construction in Progress</u> The District occasionally constructs capital assets for its own use in the plant operations. The costs associated with these projects are accumulated in a construction in progress account while the project is being developed. Once the project is completed, the entire cost of the constructed assets are transferred to the capital assets account and depreciated over the estimated useful life of the capital assets.
- I. <u>Use of Estimates</u> -The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America, as prescribed by the GASB and the AICPA, requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reported period. Actual results could differ from those estimates.
- J. <u>Net Position GASB Statement No. 63 requires that the difference between assets added to the deferred outflows of</u> resources and liabilities added to the deferred inflows of resources be reported as net position. Net position is classified as either net investment in capital assets, restricted, or unrestricted.

Net position that is net investment in capital assets, consists of capital assets, net of accumulated depreciation, and reduced by the outstanding principal of related debt. Restricted net position are those net position that have external constraints placed on them by creditors, grantors, contributors, laws, or regulations of other governments, or through constitutional provisions or enabling legislation. Unrestricted net position consist of net position that do not meet the definition of invested in capital assets, net of related debt, or restricted net position.

K. Future Accounting Pronouncements

GASB Statements listed below will be implemented in future financial statements:

Statement No. 101	"Compensated Absences"	The provisions of this statement are effective for fiscal years beginning after December 15, 2023.
Statement No. 102	"Certain Risk Disclosures"	The provisions of this statement are effective for fiscal years beginning after June 15, 2024.
Statement No. 103	"Financial Reporting Model Improvements"	The provisions of this statement are effective for fiscal years beginning after June 15, 2025.
Statement No. 104	"Disclosure of Certain Capital Assets"	The provisions of this statement are effective for fiscal years beginning after June 15, 2025.

#### **NOTE 3 - CASH AND INVESTMENTS**

On June 30, 2024, the District had the following cash and investments on hand:

Cash in county treasury	<u>\$</u>	319,100
Total cash and investments	<u>\$</u>	319,100

Cash and investments listed above, are presented on the accompanying statement of net position as follows:

Cash in county treasury	\$ 319,1	100

The District categorizes its fair value measurements within the fair value hierarchy established by U.S. Generally Accepted Accounting Principles. The Hierarchy is based on the valuation inputs used to measure the fair value of the asset. These principles recognize a three-tiered fair value hierarchy. Level 1 inputs are quoted prices in active markets for identical assets; Level 2 inputs are significant other observable inputs; Level 3 inputs are significant unobservable inputs. The District did not have investments that are measured under Level 1, Level 2, or Level 3.

#### Investments Authorized by the District's Investment Policy

The District's investment policy only authorizes investment in the local government investment pool administered by the County of Santa Barbara. The District's investment policy does not contain any specific provisions intended to limit the District's exposure to interest rate risk, credit risk, and concentration of credit risk.

#### **Disclosures Relating to Interest Rate Risk**

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of an investment. Generally, the longer the maturity of an investment, the greater the sensitivity of its fair value to changes in market interest rates. One of the ways that the District manages its exposure to interest rate risk is by purchasing a combination of shorter term and longer term investments and by timing cash flows from maturities so that a portion of the portfolio is maturing or coming close to maturity evenly over time as necessary to provide the cash flow and liquidity needed for operations.

Information about the sensitivity of the fair values of the District's investments to market interest rate fluctuations is provided by the following table that shows the distribution of the District's investments by maturity:

			Remaining l	Maturity (in Month	5)	
Investment Type	Carrying <u>Amount</u>	12 Months Or Less	13-24 Months	25-60 Months	More than 60 Months	
Santa Barbara County Investment Pool	\$ 319,100	<u>\$ 319,100</u>	\$	\$	\$	
Total	<u>\$ 319,100</u>	<u>\$ 319,100</u>	<u>\$</u>	<u>\$</u>	<u>\$</u>	

#### **Disclosures Relating to Credit Risk**

Generally, credit risk is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. This is measured by the assignment of rating by a nationally recognized statistical rating organization. Presented below, is the minimum rating required by the California Government Code, the District's investment policy, or debt agreements, and the actual rating as of fiscal year end for each investment type.

Investment Type	Minimum Carrying Amount	Exempt Legal Rating	From <u>Disclosure</u>	Rating AAA	as of Fiscal Year	r End Not Rated
Santa Barbara County Investment Pool	<u>\$ 319,100</u>	N/A	\$	\$	\$	<u>\$ 319,100</u>
Total	<u>\$ 319,100</u>	8	<u>\$</u>	<u>\$</u>	<u>\$</u> Agenda Pac Page 57 of	<u>\$ 319,100</u> ket 93

#### NOTE 3 - CASH AND INVESTMENTS (Continued)

#### Custodial Credit Risk

Custodial credit risk for *deposits* is the risk that, in the event of the failure of a depository financial institution, a government will not be able to recover its deposits or will not be able to recover collateral securities that are in the possession of an outside party. The California Government Code and the District's investment policy do not contain legal or policy requirements that would limit the exposure to custodial credit risk for deposits, other than the following provision for deposits: The California Government Code requires that a financial institution secure deposits made by state or local governmental units by pledging securities in an undivided collateral pool held by a depository regulated under state law (unless so waived by the governmental unit). The fair value of the pledged securities in the collateral pool must equal at least 110% of the total amount deposited by the public agencies. California law also allows financial institutions to secure the District's deposits by pledging first trust deed mortgage notes having a value of 150% of the secured public deposits.

None of the District's deposits with financial institutions in excess of federal depository insurance limits were held in uncollateralized accounts.

#### Investment in Santa Barbara County Investment Pool

The District is a participant in the Santa Barbara County Investment Pool that is regulated by the California Government Code. The fair value of the District's investment in this pool is based upon the District's pro-rata share of the fair value provided by the Santa Barbara County Investment Pool for the entire Santa Barbara County Investment Pool portfolio (in relation to the amortized cost of that portfolio). The balance available for withdrawal is based on the accounting records maintained by the Santa Barbara County Investment Pool, which are recorded on an amortized cost basis.

#### **NOTE 4 – SCHEDULE OF CAPITAL ASSETS**

A schedule of changes in capital assets for the fiscal year ended June 30, 2024, is shown below:

	Jı	Balance 1ly 1, 2023	A	dditions	Del	etions	E Jun	Balance e 30, 2024
Nondepreciable capital assets								
Construction in Progress	\$	206,303	\$	71,857		-		278,160
Total nondepreciable capital assets	\$	206,303		71,857	\$	_		278,160
Depreciable capital assets								
Building improvements	\$	50,773		75,114	\$	-		125,887
Total depreciable capital assets		50,773		75,114				125,887
Less Accumulated Depreciation		1,692		3,803				5,495
Net depreciable capital assets	\$	49,081	\$	71,311	\$		\$	120,392
Net capital assets	\$	255,384	\$	143,168	\$	-	\$	398,552

#### **NOTE 5 – COMMITMENTS AND CONTINGENCIES**

According to the District's staff and attorney, no contingent liabilities are outstanding and no lawsuits are pending of any real financial consequence.



#### INDEPENDENT AUDITORS' REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING AND ON COMPLIANCE AND OTHER MATTERS BASED ON AN AUDIT OF FINANCIAL STATEMENTS PERFORMED IN ACCORDANCE WITH *GOVERNMENT AUDITING STANDARDS*

To the Board of Directors Los Olivos Community Services District

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the basic financial statements of Los Olivos Community Services District (the District), as of and for the fiscal year ended June 30, 2024, and the related notes to the financial statements, and have issued our report thereon dated February 21, 2025.

#### **Report on Internal Control Over Financial Reporting**

In planning and performing our audit of the financial statements, we considered the District's internal control over financial reporting (internal control) as a basis for designing audit procedures that are appropriate in the circumstances for the purpose of expressing our opinion on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the District's internal control. Accordingly, we do not express an opinion on the effectiveness of the District's internal control.

A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or, significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses or significant deficiencies may exist that were not been identified.

#### **Report on Compliance and Other Matters**

As part of obtaining reasonable assurance about whether the District's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the financial statements. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

#### **Purpose of this Report**

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose

Moss, Leng & Haregreim LLP

Santa Maria, California February 21, 2025

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LOCSD Wastewater Connection to City of Solvang Basis of Design Report- FINAL

February 21, 2025

Prepared for: Los Olivos Community Services District

Prepared by: Stantec Consulting Services Inc.

Project/File: 184032474

# **Revision Schedule**

Revision	Description	Author	Date	Quality Check	Date	Independent Review	Date
0	Draft	GK	1/31/25	JTZ	1/31/25	CEP	1/31/25
1	Final	GK	2/21/25	JTZ	2/21/25	CEP	2/21/25

# Disclaimer

The conclusions in the Report titled g are Stantec's professional opinion, as of the time of the Report, and concerning the scope described in the Report. The opinions in the document are based on conditions and information existing at the time the scope of work was conducted and do not take into account any subsequent changes. The Report relates solely to the specific project for which Stantec was retained and the stated purpose for which the Report was prepared. The Report is not to be used or relied on for any variation or extension of the project, or for any other project or purpose, and any unauthorized use or reliance is at the recipient's own risk.

Stantec has assumed all information received from g (the "Client") and third parties in the preparation of the Report to be correct. While Stantec has exercised a customary level of judgment or due diligence in the use of such information, Stantec assumes no responsibility for the consequences of any error or omission contained therein.

This Report is intended solely for use by the Client in accordance with Stantec's contract with the Client. While the Report may be provided by the Client to applicable authorities having jurisdiction and to other third parties in connection with the project, Stantec disclaims any legal duty based upon warranty, reliance or any other theory to any third party, and will not be liable to such third party for any damages or losses of any kind that may result.

Prepared by:

Habielle Kasman

Gabrielle Kasman, EIT

Reviewed by:

/ Jonny Zukowski, PE

Approved by:

Came Poytin

Carrie Poytress, PE



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# **Executive Summary**

This report provides design recommendations to the Los Olivos Community Services District (LOCSD) for LOCSD lift stations, storage, and the sewer force main that will connect LOCSD's wastewater collection system to the City of Solvang's. This will require approximately 18,000 linear feet (3.4 miles) of pipeline and bridge crossings over Alamo Pintado Creek. The proposed point of connection (POC) to Solvang will be at existing sewer maintenance hole (SMH) MD-114, located near the intersection of Ladan Drive and Alamo Pintado Road across from Sunny Fields Park. It is assumed that all Solvang's capital improvement projects described in both the 2021 Solvang Sewer Master Plan (SMP) and Water System Consulting's evaluation to upsize the pipe segments in Solvang's collection system will be completed prior to accepting the wastewater from LOCSD.

Two lift stations are recommended for LOCSD, one on either side of Alamo Pintado Creek. The Grand Ave (eastside) lift station should be located near the intersection of Grand Ave, Alamo Pintado Rd, and Roblar Ave within the road right-of-way (ROW) ideally located on the northwest corner of the intersection outside of the pavement. The Grand Ave lift station helps to avoid a very deep wet well at the Santa Barbara Ave lift station. The Santa Barbara Ave (westside) should be located near the intersection of Santa Barbara Ave and Alamo Pintado Road on the northeast corner outside of the pavement. Due to the existing utilities in the area, the footprint requirements, and access requirements, the Santa Barbara Ave lift station may need to be constructed further back from the road outside of the ROW, which may require an easement from the property owner.

Below is a summary of the design recommendations for the two lift stations and associated force mains.

	Grand Ave (eastside) Lift Station	Santa Barbara Ave (westside) Lift Station
Wet Well Capacity (gallons)	1,250	10,000
Pump Duty Point (gpm)	246.6	334.4
Min. Head Required (ft)	20	15
Odor Control	No	Yes
Generator	Hookups for portable generator	Trailer mounted generator located at site
Site	Designated parking	Driveway access
Force Main Diameter (in)	4	6
Fore Main Material	PVC	HDPE

Table	ES-1:	Summary	of Design	Recommendatio	ns

# **Acronyms / Abbreviations**

Acronym / Abbreviation	Full Name
ACI	American Concrete Institute
ADF	Average Daily Flow
ADMMF	Average Daily Maximum Month Flow
ADU	Accessory Dwelling Unit
Ave.	Avenue
ASTM	American Society for Testing and Materials
BOD <sub>5</sub>	Biochemical Oxygen Demand
BODR	Basis of Design Report
Cal OSHA	California Division of Occupational Safety and Health
d/D	Depth over Diameter
FT	Feet
GIS	Geographical Information Systems
GPD	Gallons per day
gpm	Gallons per minute
H2S	Hydrogen Sulfide
HDPE	High Density Polyethylene
LF	Linear Feet
LOCSD	Los Olivos Community Services District
max	Maximum
MDF	Maximum Daily Flow
Mg/L	Milligrams per Liter
min	Minimum
MSL	Mean Sea Level
NACE	National Association of Corrosion Engineers
No.	Number
POC	Point of connection
PVC	Polyvinyl Chloride
PWWF	Peak Wet Weather Flow
ppd	Pounds per Day
psi	Pounds per square inch
Rd.	Road
ROW	Right-of-Way
SMH	Sewer maintenance hole
SSPC	Society for Protective
SMP	Sewer Master Plan
TKN	Total Kjeldahl Nitrogen
TN	Total Nitrogen
TSS	Total Suspended Solids
WWTP	Wastewater Treatment Plant



# 1 Introduction and Background

The unincorporated township of Los Olivos is in the Santa Ynez Valley in Santa Barbara County, California. Los Olivos is known for wine tasting, fine and casual dining, and fine art and experiences heavy tourism in the downtown commercial area on weekends and holidays throughout the year. Per County of Santa Barbara Los Olivos Wastewater Management Plan 2010 (WMP), the daily tourist population is estimated to be two to three times the population of Los Olivos during summer weekends and holidays. Los Olivos has a total of 418 parcels with approximately 350 septic systems per the WMP. There are 391 parcels within the District boundary and the remaining 27 parcels are outside the District boundary located north of Highway 154. The area is a mix of residential and commercial properties with large rural residential, viticulture, and agriculture lots surrounding the downtown commercial area.

In 1974, Santa Barbara County designated Los Olivos a Special Problems Area due to nitrate contamination of the groundwater. Los Olivos is in the Santa Ynez Uplands Groundwater Basin and groundwater monitoring has shown significant impact with the use of septic systems in the Los Olivos area. Properties in Los Olivos currently rely on individual septic systems for wastewater disposal using septic tanks and leach files. There is no sanitary sewer collection system or wastewater treatment facility in the community. The nearest wastewater treatment plant is located approximately 5 miles south in the City of Solvang.

In 2018, to mitigate further groundwater contamination, Los Olivos voters established the Los Olivos Community Service District (LOCSD) to provide a funding mechanism for the building and operation of facilities needed to collect, treat, and dispose of sewage, wastewater, recycled water, and storm water in Los Olivos and adopted resolution 2019-04, the Los Olivos Wastewater Reclamation Program Project (LOWRPP). The LOWRPP is comprised of four components. As part of component no. 4, the District's goal is to implement a three-phased plan for converting Los Olivos from septic systems to centralized wastewater conveyance, treatment, and disposal facilities:

- Phase I includes the 20-year build-out of the downtown commercial zone which consists of existing commercial properties and neighboring residential properties.
- Phase II includes the residential area to the east and south of Phase I.
- Phase III includes the rest of the community within the Service Area.

It is expected that properties in Phase I and Phase II are expected to be connected immediately after construction of the collection system. Phase III properties are generally expected to be connected when their septic systems fail and may take several years to be connected after the construction of the collection system

# 1.1 Purpose

The purpose of this report is to document the results of a hydraulic analysis that was conducted to size sewer lift stations and force mains and provide recommendations to the Los Olivos Community Services

District (LOCSD) to connect LOCSD's future wastewater collection system to the City of Solvang's existing collection system for treatment at the Solvang Wastewater Treatment Plant (WWTP).

This report presents 30% conceptual design recommendations for LOCSD lift stations, flow equalization storage, and the sewer force main that will connect LOCSD's wastewater collection system to the City of Solvang's.

## **1.2 Previous Reports**

This report utilizes technical findings from prior reports and summarizes the anticipated impacts of the connection to the City of Solvang's wastewater infrastructure. Key references include the following reports:

- 1. Wastewater Loading Study (Loading Study) by Stantec dated November 19, 2021
- 2. Wastewater Collection and Treatment Basis of Design Report (BODR) by Stantec dated January 7, 2022
- Septic to Sewer Project 30% Submittal (Community Gravity Collection System) by Stantec dated June 28, 2022
- Basis of Design Report Los Olivos Collection Analysis (Hybrid Collection System) by Regen AEC, PLLC dated May 30<sup>,</sup> 2024.
- City of Solvang 2021 Sewer Master Plan (SMP) by Water Systems Consulting (WSC) dated November 8, 2021
- Draft Technical Memorandum for Los Olivos CSD Flow Impacts on Solvang Wastewater Treatment Plant by WSC dated October 7, 2024
- 7. Final Technical Memorandum titled Evaluation of Los Olivos Flows on Solvang WWTP by Carollo Engineers (Carollo) dated November 2024

## 1.2.1 Los Olivos Previous Analysis

In 2021, Stantec developed the Wastewater Loading Study (Loading Study). The Loading Study provided estimated average day (ADF), max day (MDF), and peak hour wet weather (PWWF) flows among others, as well as wastewater quality projections for each phase of the Los Olivos conversion. PWWFs can be assumed to account for infiltration of ground water in the conveyance system, inflow of stormwater through storm water connections and openings in manholes etc. Although, it is anticipated that dry weather and wet weather flows should remain constant in a new collection system. To account for infiltration over the life of the conveyance system and to the affect that tourism in the downtown commercial zone will have, the Loading Study established peaking factors to estimate PWWFs. These peaking factors were established on the basis from previous reports and comparing the existing peaking factors used for the Township of Santa Ynez (SYCSD) and the City of Solvang. Though the community of Los Olivos is like Santa Ynez in that it has a small commercial zone with rural residential, viticulture, and agriculture in the surrounding area and like Solvang with the influx of tourism throughout the year it differs from these nearby towns in population. See Table 1-1 for a summary and comparison of peaking factors used to calculate the PWWF in the Loading Study.

Table 1-1: PWWF Factor Comparison

Design Standard	PWWF Factor
SYCSD Design and Construction Standards	3
City of Solvang Sewer System Management Plan 2015	5
Phase III (Remaining Areas)	4

Table 1-2 and Table 1-3 below summarize the projected flows and wastewater quality for the three buildout phases of the Los Olivos conversion, as estimated by the Loading Study, respectively.

Table 1-2: Los Olivos 20-Year Buildout Flow Projections

Phase	Average Daily Flow (ADF) (gpd)	Average Daily Flow (ADF) (gpm)	Maximum Daily Flow (MDF) gpd	Peak Wet Weather Flow (PWWF) (gpm)
Phase I (Commercial Zone)	43,800	30.4	140,000	121.7
Phase II (Residential Zone)	54,500	37.9	174,000	151.4
Phase III (Remaining Areas)	117,752	81.8	376,400	327.1
Phase III + ADU (Full Build-Out + Inflow)	120,400	83.6	385,000	334.4

Table 1-3: Los Olivos 20-Year Buildout Wastewater Quality Projections

Phase	Constituent	Average Daily Maximum Monthly Flow (ADMMF) (gpd)	Concentration (mg/L)	Loading (ppd)
Phase I	BOD <sub>5</sub>	49,600	769	318
(Commercial Zone)	TSS		493	204
	TKN		99	41
Phase II	BOD <sub>5</sub>	61,400	658	337
(Residential Zone)	TSS		437	224
	TKN		88	45
Phase III	BOD₅	133,800	416	464
(Remaining Areas)	TSS		320	357
	TKN		63	70

In 2022, Stantec developed a Wastewater Collection and Treatment Basis of Design Report (BODR) to provide design criteria for a wastewater collection system, sewer lift station, and centralized wastewater treatment facility to serve LOCSD. Figure 1 illustrates the BODR's preliminary design for the layout of LOCSD'S gravity collection system, assuming the treatment plant's location is in the southern part of the community, and sewage lift station, located at the intersection of Alamo Pintado Road and Santa Barbara Avenue. This LOCSD Lift Station was determined to be necessary regardless of the treatment plant's location.





Figure 1: Los Olivos Preliminary Gravity Sewer Collection Layout

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Building upon the BODR, in 2022 Stantec prepared the 30% submittal that included conceptual plans and profiles for the gravity collection system sewer and a conceptual layout of the centralized wastewater treatment facility for LOCSD. The plans included a sewer lift station at the most downstream portion of the collection system to convey wastewater to the centralized treatment facility.

This sewer lift station, referred to as the Santa Barbara Ave. (westside) Lift Station (Santa Barbara LS) in this report, will be located at the north-east corner of Alamo Pintado Road and Santa Barbara Avenue, west of Alamo Pintado Creek.

## 1.2.2 Solvang 2021 Sewer Master Plan

According to the 2021 SMP, the City of Solvang's wastewater collection system consists of 31 miles of gravity sewer mains and two sewer lift stations (the Fjord and Alisal Lift Stations) that provide wastewater services for 10,230 customers. Wastewater is conveyed to Solvang's WWTP via the Fjord sewer lift station and sewer force main below the Santa Ynez River.

The SMP identified several capacity-related challenges within Solvang's existing wastewater infrastructure. While no pipe segments were found to exceed capacity under annual average flow (AAF) scenarios, 20 pipe segments (0.75 miles) exceeded capacity under peak wet weather flow (PWWF) conditions. See Figure 2 for a summary of the pipeline evaluation criteria used in the SMP.

Of the 20 segments identified, 9 segments (0.33 miles) would convey additional wastewater from LOCSD. These sewer mains are located along Fjord Drive and exceed capacity when the Alisal Lift Station operates during existing PWWF conditions (see Figure 2). The model assumed the peak flow from the lift station coincides with those in the gravity mains, a conservative approach that does not account for pump cycling. No capital improvement projects (CIPs) were recommended to address the capacity constraints as these capacity deficiencies are only present at peak flows and the risk was anticipated to be minimal. The SMP recommended these mains be surveyed to determine if the slopes are as low as Solvang's GIS indicates and that flow be monitored to determine if peak flows are triggering these conditions.

The SMP also evaluated the capacity of the Fjord lift station under various PWWF scenarios. The evaluation concluded that the Fjord lift station has sufficient capacity to handle both existing and future flows under these conditions. As a result, no capacity upgrades were required at either lift station.

Diurnal curves were developed in the SMP using flow monitoring conducted by Utility Systems Science & Software (US<sup>3</sup>) at multiple sewer maintenance holes (SMH) through the system. To establish and understand peak flow times within Solvang's wastewater collection system, this report will utilize the diurnal curve and flow monitoring for SMH MD-018, which is along the conveyance route impacted by the addition of LOCSD flow, to establish and discuss peak flow times.





Figure 2: City of Solvang Pipes Evaluation under Existing PWWF Conditions (No LOCSD Addition)

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## **1.2.3** Basis of Design Report for a Hybrid Collection System

In 2024, Regen AEC, PLLC (Regen) prepared a basis of design report for LOCSD to analyze a hybrid collection system that utilized both a pressurized effluent sewer system (PFE) and a gravity collection system to collect wastewater from LOCSD. The report concluded that PEFs tend to have lower infiltration and inflow than gravity sewers which can reduce the estimated PWWF. PEF systems also tend to contain less solids due to conveying the effluent from the existing septic systems where the solids have settled.

These two factors could reduce the size of the wastewater lift stations and is further discussed in this report. The collection system chosen should be considered during final design of the wastewater lift station.

## 1.2.4 Solvang Wastewater Infrastructure Capacity

In June 2024, LOCSD contracted with WSC to evaluate the impacts of adding the Los Olivos' wastewater to Solvang's collection system. Using the same hydraulic model that was developed for the 2021 SMP, WSC simulated the additional flow by adding a point load to a Solvang maintenance hole located near Sunny Fields Park (see Figure 3). Unlike the SMP, this model only assessed sewer mains that would be impacted by the addition of Los Olivos's flow. Pipe segments that exceeded capacity were taken to mean that the normal depth of flow within the pipeline was greater than the allowable d/D criteria set forth by the City of Solvang sewer design standards. See Table 1-4 for number of pipe segments that exceed capacity with the addition of LOCSD's flow under various flow conditions.

	Solvang Only		Solvang + LOCSD		Change Due to LOCSD Addition	
	Number of Segments	Length (miles)	Number of Segments	Length (miles)	Number of Segments	Length (miles)
Existing ADF	0	0.00	0	0.00	0	0.00
Existing PWWF	9	0.32	11	0.43	2	0.11
Buildout PWWF	9	0.32	19	0.87	10	0.55

Table 1-4: Pipe Segments Exceeding Capacity under Various Flows and With LOCSD Flow Addition

As previously discussed in Section 0, 9 segments already exceed capacity under Solvang's existing PWWF condition for two primary reasons: (1) they have low (flat) slopes and (2) they only exceed the capacity criteria when the Alisal Force Main is operating. The SMP recommended surveying these mains to confirm slopes and monitoring flows to verify peak flow impacts. Using the SMP's evaluation criteria, WSC determined that while no pipe segments were over capacity-under ADF conditions, the addition of LOCSD's projected PWWF to Solvang's existing PWWF results in 11 segments (two additional segments) exceeding capacity. One of the pipes is another low slope main along the Fjord Drive, while the other is near the proposed connection point where small end-of-line mains constrain capacity.

When comparing the combined flow during buildout PWWF versus existing PWWF conditions, 8 more segments exceed capacity (see Table 1-4). This increase is mainly due to additional demands on end-of-line mains near the proposed connection point (see Figure 3).






Additionally, there is a section of the trunk main that was identified in the SMP as potentially capacity constrained. To address these deficiencies, WSC proposed four potential capital improvement projects (CIPs). These include increasing the diameter of low-slope gravity mains along Fjord Drive, sections of the trunk main, and end-of-line mains near the connection point. See Figure 3 for a map from WSC's report showing the deficient pipelines that are included in the CIPs.

The capacity of the Fjord Lift Station was also assessed based on the various PWWF scenarios. Results of the lift station capacity evaluation determined the Fjord Lift Station is sufficient to meet the pumping needs of Solvang with the addition of Los Olivos under existing and future buildout scenarios.

### 1.2.5 Solvang Wastewater Treatment Plant Water Quality

In August 2024, the LOCSD contracted with Carollo to evaluate the impact of connecting Los Olivos' flows to Solvang's WWTP to the water quality of drinking water and wastewater within both service areas. Using a biological process model, Carollo evaluated the scenario where the full Phase III flow and loads would be connected to the Solvang WWTP (see Table 1-3). Even when the simulation was run under the worst-case condition (average daily maximum monthly flow and average wastewater concentrations to simulate the typical highest wastewater loads on the WWTP), the model determined Solvang's future WWTP will be able to effectively meet effluent permit limits (see Table 1-5). However, Carollo's report states that this will only be possible after the WWTP Phase 2 Upgrades project is constructed. The Phase 2 Upgrades project, which is expected to be completed in April 2028, will include reconfiguring the existing sequencing batch reactors and adding secondary clarifiers.

Constituent	Constituent Description	WWTP Effluent Permit Limit (mg/L)	Modeled Effluent Concentration (mg/L)
$BOD_5(1)$	Biochemical Oxygen Demand, 5 days	30	2.4
TSS(1)	Total Suspended Solids	20	4.2
TN(2)	Total Nitrogen	10	8.8
Notes: (1) 30-day ave (2) 25-month	erage effluent permit limit provided. rolling median effluent permit limit provided.		

Table	1-5: Solvang	WWTP	Projected	Effluent	Concentrations	after Los	Olivos	Connection
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## 2 Proposed Preliminary Project

The proposed Project includes a connection from LOCSD LS to the City of Solvang's wastewater infrastructure. This will require approximately 18,000 linear feet (3.4 miles) of pipeline and bridge crossings over Alamo Pintado Creek. As shown in Figure 4 below, the proposed point of connection (POC) to Solvang will be at existing SMH MD-114, located near the intersection of Ladan Drive and Alamo Pintado Road across from Sunny Fields Park. While the ground elevation of the proposed location of the LOCSD LS is approximately 751 ft, the Solvang POC has an approximate ground elevation of 510 ft. This decrease in elevation must be considered in the development of the system curve and the design of conveyance system. Gravity flow to the POC, aside from the bridge crossings, is possible with an estimated average downhill slope from LOCSD LS to Solvang's SMH MD-114 being 1.3%.

As noted in the WSC's draft technical memo, the addition of LOCSD's Buildout PWWF to Solvang's Buildout PWWF causes 10 existing sewer mains to exceed conveyance capacity and further inundates 9 sewer mains along Fjord Drive already exceeding capacity at Baseline Existing PWWF. It is assumed that all CIPs in both the SMP and WSC's evaluation to upsize the pipe segments in Solvang's collection system will be completed prior to accepting the wastewater from LOCSD.



Figure 4: Los Olivos Lift Station to Solvang Collection System Sewer Force Main Connection

Key components of the Preliminary Project are discussed in the sections below.

## 2.1 Sewer Lift Stations

As previously mentioned in Section 1.2.1, the BODR determined a sewage lift station will be required to convey wastewater from the Los Olivos gravity sewer collection system to a wastewater treatment plant regardless of the plant location due to the required depth of the gravity sewer main crossing Alamo Pintado Creek. The 30% conceptual plans showed the gravity sewer main discharging into the LOCSD LS, referred to as the Santa Barbra Ave (westside) lift station (Santa Barbara LS) in this report, to be approximately 25 feet deep at elevation 720.5 ft above MSL. This would require a wet well greater than 25 feet deep to accommodate the incoming gravity sewer main depth. To avoid such a deep wet well, this report recommends adding an additional lift station on the east side of Alamo Pintado Creek to capture the flow from the eastside of the collection system. This additional lift station in this report is referred to as the Grand Ave (eastside) Lift Station (Grand LS). The sewer force main from this lift station would need to attach to the downstream side of the existing Santa Barbara County bridge # 51C-80 crossing Alamo Pintado Creek to discharge into the Santa Barbara LS on the west side of the creek. The Santa Barbara LS would pump the wastewater to the Solvang sewer collection system.

#### Figure 5: Proposed Sewer Lift Stations



The inclusion of a wet well at each lift station is critical for regulating inflow and ensuring consistent and efficient operation. Additionally, the pressurized sewer system enabled by the lift stations provides several advantages, such as minimizing the size and depth of pipelines, reducing construction costs, and limiting further development along the Alamo Pintado Road. As a concept, it is assumed that the lift stations will consist of a round maintenance hole style wet well with duplex submersible pumps. One pump shall be for duty service and the other for redundancy, with alternating duty service.

It should be noted that the inclusion of PFEs, as described in Regens BODR for the LOCSD collection system, could negate the need for the Grand LS. If the east side of the collection system is pressurized, the collection system may be able convey wastewater to the Santa Barbara LS without the need for an additional lift station on the east side of Alamon Pintado Creek. This should be analyzed during final design based on the collection system chosen for LOCSD.

### 2.1.1 Sewer Lift Stations Site Layouts

The lift station sites generally consist of a 'level' graded area that is large enough to accommodate the power system, standby generator building or hookups, control panels, wet well structure, and valve vaults with setbacks around these items to provide adequate space between items and for access and maintenance, and to meet federal, state, and local code requirements. Based on the location of the lift station sites there will need to be adequate space for vehicle parking due to the proximity to the public road. The sites will need to be graded to allow adequate storm water drainage away from the sites as well. It is recommended to provide fencing around the perimeter that will restrict access and block view from the public ROW. The site layouts will be included in the 30% design plans.

The Grand Ave (eastside) lift station should be located near the intersection of Grand Ave, Alamo Pintado Rd, and Roblar Ave within the road right-of-way (ROW). The ideal location is on the northwest corner of the intersection outside of the pavement as shown in *Figure* 6. A parking space adjacent to the lift station is needed for maintenance personnel. The lift station needs to accommodate the existing fire hydrant, 8-inch water main, communications maintenance hole, and electrical box within the ROW.

Figure 6: Proposed Grand Ave LS Location





The Santa Barbara Ave (westside) should be located near the intersection of Santa Barbara Ave and Alamo Pintado Road on the northeast corner outside of the pavement. Due to the existing utilities in the area, the footprint requirements, and access requirements, the lift station may need to be constructed further back from the road outside of the ROW, which may require an easement from the property owner. The existing 8-inch water main that crosses behind the existing power poles, may need to be relocated to fit the wet well and maintain adequate clearances between the water and sewer.



Figure 7: Proposed Santa Barbara Ave LS Location

#### 2.1.2 Lift Station Structure

The lift station structures will consist of a cylindrical concrete wet well to collect the incoming wastewater from the gravity collection system. The wet wells will house a pumping system to discharge the wastewater to a desired endpoint. The wet well will be supported by a monolithic thickened concrete foundation and have a top slab with locking access hatch prevent sewage gases from escaping and prevent unauthorized access.

#### 2.1.2.1 Materials

Sewer lift stations are typically constructed from reinforced concrete which is lined with products that meet the Society for Protective Coatings (SSPC), National Association of Corrosion Engineers (NACE), American Concrete Institute (ACI), and American Society for Testing and Materials (ASTM) codes and standards. These coatings protect the interior of the wet well from the corrosive environment caused by the wastewater and are typically made from epoxy or acrylic. The concrete is designed specifically for water-retaining with a compressive strength of 4,000 psi or greater. The lift station structure, concrete mix,

lining and coatings should be specified during final design. The concrete cylindrical barrels of the list station can be precast concrete or cast-in-place, but the precast concrete is typically cheaper and faster to construct than cast-in-place.

The other option is for the wet well to be constructed from fiberglass. Fiberglass tanks can be manufactured with a double-wall, leak detection, and to resist most chemicals and gasses so a lining is not required. However, fiberglass is not as widely available, and there can be restrictions on the full size and shape of the fiberglass structural components. The maximum inside diameter is 12 feet. The fiberglass tanks typically arrive as a single, easy to install unit.

#### 2.1.2.2 Shoring, Bedding, and Backfill

Per Cal OSHA and California Code of Regulations, all excavations greater than 5-feet in depth will require adequate shoring which must be designed by a registered California Structural or Civil Engineer. The excavation for the wet wells will require an excavation approximately 15 feet deep. Adequate shoring to protect the workers, the structures, and the surrounding soil during construction of the sewer lift station will be required.

The construction of the lift station structure will also require proper compaction of the underlying soil to achieve an unyielding foundation for the sub-base and concrete base foundation. During final design, a Registered California Geotechnical Engineer should be retained to conduct a field investigation and analysis of the surrounding soils and provide recommendations for horizontal and vertical loading of the soil, seismic parameters, required soil compaction, shoring, depth to groundwater, drainage, and backfill among others. These recommendations should be used during the final design of the sewer lift station structure, trenching, excavation, compaction, and backfill.

#### 2.1.2.3 Groundwater and Buoyancy Forces

The preferred lift station sites are located approximately 180 to 220 feet from Alama Pintado Creek indicating there may be groundwater present. Recent ground water monitoring at the Grand LS site conducted by LOCSD indicated that groundwater is present from 8 to 10 below the ground surface. During final design, a Registered California Geotechnical Engineer should be retained to conduct a field investigation and analyze the proximity to groundwater at both lift station locations and provide recommendations for the buoyancy forces and soil pressure due to ground water that can be used when designing the lift station structures.

#### 2.1.2.4 Minimum Sizing and Dimensions

Typically, the dimensions for sewer wet wells are designed based on pump sizes, maintenance, incoming peak flow, retention time, pumping system flow rate, and desired on and off pump cycling. For this project, the following equations were used to size the wet wells for each lift station.

Vmin = [Tmin \* Qout]/4

*Vmin* = *minimum volume of fluid between pump cycles* 



*Tmin* = *minimum time between pump cycles* 

*Qout = pump discharge rate* 

The pump discharge flow rates were assumed to meet the PWWF (Qout) of the collection systems discharging to the respective wet well. See Table 2-1 for minimum wet well volume (Vmin) summary for each lift station.

Table 2-1: Minimum Wet Well Volume

	Qout (gpm)	Tmin (minutes)	Vmin (gallons)
Grand LS	246.6	20	1,250
Santa Barbara LS	334.4	60	5,000

Based on the calculated minimum required volume, the initial dimensions of the wet well can be established. Using an iterative process, the nominal diameter of the wet well is chosen, and the corresponding depth and incoming sewer depth is analyzed while keeping in mind excavation depths, constructability, and site constraints. For this project, structure depths were approximated down to the minimum submergence. The minimum submergence is the depth of fluid required above the pump impeller which is typically designated by the pump manufacturer and is not included in this report. The maximum level of the wastewater in the wet well was kept 1-ft below the incoming sewer invert to avoid surcharging the incoming sewer. The incoming sewer invert into the wet well was based on sloping 0.5% from the upstream gravity collection system maintenance hole to the lift station. See Table 2-2 for a wet well dimension summary.

Table 2-2: Wet Well Dimensions

	Wet Well Diameter (ft)	Incoming Sewer invert depth (ft)	Liquid Depth (ft) based on Vmin	Approx. Wet Well Depth (ft)
Grand LS	8	7.65	3.28	11.95
Santa Barbara LS	12	5.30	5.93	12.25

#### 2.1.2.4.1 Flow Equalization Storage

Flow equalization storage involves holding a specified volume of liquid and using a pumping system to discharge at a desired flow rate. This is helpful to minimize pump cycling and discharge wastewater at desired times throughout the day. Each wet well has a specified storage volume and a pumping system to allow for flow equalization. Additional flow equalization storage beyond the volume of the wet well is not necessary for the Grand LS as this will be discharging to the Santa Barbara LS. Additional flow equalization storage volumes, flow rates, and feasibility for the Santa Barbara LS is further discussed below.

It would be ideal to send wastewater during the low flow periods in Solvang's collection system. This would help avoid overloading Solvang's collection system but is not entirely necessary if the proposed

CIP's for Solvang's system are constructed. The proposed CIP's in WSCs report concluded that upsizing the deficient pipeline segments will handle both buildout PWWF's from Solvang and LOCSD simultaneously, therefore, PWWF from LOCSD can theoretically be sent at any time of the day.

Diurnal curves were developed for Solvang's existing SHM MD-018 via flow monitoring and documented in the SMP. This existing sewer manhole is along the conveyance path that would accept flow from LOCSD. Based on these curves, it is estimated that there is, on average, a 7-hour window of low flow from 7:30 pm to 2:30 am. The other 17 hours in this report are referred to as the 'high flow' window. Figure 8 shows the diurnal curves for SMH MD-018.



Figure 8: Solvang SMH MD-018 Diurnal Curve from SMP

It is assumed that the diurnal flow pattern for LOCSD collection system will mimic the developed diurnal curves for Solvang's collection system based on the similarities for the wastewater types (e.g. residential, commercial) at buildout. It is estimated that 90% of the daily flow within LOCSD's collection system will be generated during the 17-hour high flow window. It is likely that flows during the weekend days will be higher than flows during the week due to the influx of tourism in the downtown commercial area of Los Olivos on the weekends.

To send wastewater from the Santa Barbara LS to Solvang during the low flow window only, a majority of the daily wastewater collected from LOCSD would need to be stored at the Santa Barbara LS. The travel time from the Santa Barbara LS to Solvang's collection system would take approximately 90 minutes (1.5



hrs). Therefore, it would be possible for the wastewater pump to turn on 1.5 hours prior to the low flow window (i.e. 6:00 pm). The minimum storage required for the buildout ADF of 124,000 gallons and considering the travel time, would be approximately 94,000 gallons (124,000 gallons – 334 gpm\*90 mins).

Based on the site constraints, there is limited space for additional storage within the ROW at the Santa Barbara LS. The 94,000 gallons does not provide enough storage for flows higher than the ADF. As an example, during the estimated MDF, it would take a single pump running continuously for 19.2 hours to discharge 385,000 gallons of wastewater indicating that wastewater would need to be sent during high flow periods as well. Storing 94,000 gallons is only 25% of the MDF. If we are to assume that 90% (346,500 gpd) of the MDF would be generated during the 17-hour high flow window this would equate to an average of 20,380 gph. The wastewater stored at the lift station would reach 94,000 gallons within 5 hours of the high flow window and the pumping system would need to turn on and would most likely require both pumps running at the same time discharging higher flow than the PWWF into Solvang's collection system. Though the MDF is seldom expected, it should be noted that flow above the PWWF of 334.4 gpm was not modeled in WSC's report and it is unknown what effect this will have on Solvang's existing and proposed (with CIPs) collection system capacity. See Table 2-3 for a discharge summary during the low flow window.

LOCSD Buildout Scenario	GPD	Single Pump Flow (gpd)	Pump ON Duration Required based on 334.4 gpm (hrs)	Can be sent during Low Flow Window Only (Y/N)
ADF	124,000	334.4	6.2	Y
MDF	385,000	334.4	19.2	Ν

In contrast, if there is no additional storage, during an average day at buildout, it is estimated that the pump will turn on every hour for 20 minutes and be off for 40 minutes during the 17-hour high flow period. Pump cycling every hour satisfies minimum general recommendations, but any flows higher than the buildout ADF would require a single pump to run longer, cycle more often, or both pumps running simultaneously.

Another factor in analyzing the storage volume is residence time, or the amount of time the wastewater is sitting stagnant. Storing wastewater for 17 hours as described is not recommended and comes with many challenges, including settlement of sludge, formation of H2S gas, and odor control issues due to the wastewater becoming septic. Per LOCSD request for storage, Stantec recommends holding wastewater for no more than 6 hours. This includes holding flow generated during low flow periods where it is expected that only 10% (12,400 gallons during buildout ADF) of the flow would accumulate. As previously established, it is impractical and not necessary to store a large volume of wastewater at the Santa Barbara LS and send during the low flow window to Solvang, but some additional storage is useful. An additional wet well of the same size, hydraulically linked to the primary wet well would allow for roughly 10,000 gallons of storage, while maintaining pump cycling of less than 6 hours during buildout ADF. A single pump would turn on 6 to 7 times during the high flow window and run for an average of 45 minutes.

Per LOCSD request, additional downstream storage near Sunny Fields park was considered. This would provide additional holdover storage which could allow flow to be sent within desired time but there would still be no way to avoid sending flow during the high flow window for flows greater than MDF. This additional storage would also require an additional lift station at this location to discharge the stored wastewater to Solvang. There would also need to be an odor control system in place due to the nature of storing the wastewater. This option is not recommended.

This report assumes that all CIPs in both the SMP and WSC's evaluation to upsize the pipe segments in Solvang's collection system will be completed prior to accepting the wastewater from LOCSD. However, if the CIPs are not constructed, storing a wastewater volume greater than the buildout ADF and sending it only during the low flow window is not feasible.

#### 2.1.2.5 Access/ Hatches

The length and width of the access hatch for a duplex wet well structure should be large enough to accommodate removal of both pumps on their rail systems. The pumps are horizontally separated a specified distance from one another to avoid a vortex and from competing with one another while both are operating. This separation distance is typically specified by the pump manufacturer. The access hatch should be rated for H-20 traffic loading and be constructed of aluminum or coated steel.

#### 2.1.2.6 Odor Control

The proposed Santa Barbara Ave (westside) sewage lift station should include an odor control system due to the proximity to residential areas and potential of longer storage times during periods of low flow. The odor control solution can be assessed during final design. A biofilter or carbon scrubber along with aeration are likely the preferred odor control solution.

The proposed Grand Ave (eastside) lift station does not need to include an odor control system since the wastewater can be pumped out of the wet well without time restrictions and the lift station does need additional storage.

### 2.2 Wastewater Pumps

### 2.2.1 Pump and Impeller

Typically, wastewater pumping systems are designed as a duplex system, with a lead pump and a lag pump. Both pumps should be sized to handle the PWWF alone and should be rated the same so they can be cycled and work together efficiently during periods of high flow. For this project, a duplex system will be utilized for both the Grand LS and Santa Barbara LS.

Wastewater pumps within wet well structures are submersible and placed at a specified dimension above the wet well bottom with no inlet piping before the impeller. There are various designs for impellers based on the necessary application of the pumping system, fluid being pumped, maintenance, and reliability. It is typical in residential and commercial wastewater pumping systems to specify a non-clog impeller to

allow the passage of solids of  $2^{\circ} - 3^{\circ}$  in diameter. See Table 2-4 for a summary of the minimum pump requirements.

Table 2-4: Minimum Pump Requirements

	Flow (gpm)	Head (ft)
Grand LS	246.6	20
Santa Barbara LS	334.4	15

The head shown in Table 2-4, is the minimum head required for these pumping systems to overcome at the given flow rate. The head includes the static lift from pump impeller to point of connection and the headloss generated from friction in the sewer force main piping, which is further discussed in section 2.3. The head required is not necessarily the output of the pumping system. The output of the pumping system is depending on the pump curve provided by a pump manufacturer specific to the selected pump. This should be specified during final design.

#### 2.2.2 Minimum Submergence

Minimum submergence is the depth of fluid above the impeller that the pump must have for proper operation and to avoid a vortex from forming in the fluid which could cause cavitation at the impeller. This fluid level in the wet well is specified by the pump manufacture and can be maintained by the set points of the control system.

#### 2.2.3 **Power Requirements**

For submersible pumps, the pump motor should be submersible as well. The motor is typically manufactured with the pump itself as a single unit. The motor should be sized to drive the pump impeller at speed required to produce the operating flow and pressure. Based on the pump requirements described previously, motors of this size require 3 phase power at 208 to 480 volts alternating current, 480 Volts being more desirable.

As discussed further below in section 2.3.3, a variable frequency drive (VFD) will be necessary to drive the pump motors at the Santa Barbara LS at the desired flow rate while operating within the limits of the pumping system. The VFD may require air conditioning and/or adequate exhaust and venting and should be analyzed during final design.

To provide power to the pumping system, the power feed source should be located and analyzed. It is typical to have a local transformer installed onsite that can transform the power from the power source up or down to the desired voltage for the pumping system. The power is delivered via a service panel, to the breaker panel, control systems and components, and other auxiliary uses such as site lights and alarms. During final design, the power to the site and pumping system should be designed by a Registered Electrical Engineer.



### 2.2.4 Backup power

The Santa Barbara LS will include a standby generator, either diesel or natural gas to allow continued operation through power outages. The power distribution panel will be fitted with an automatic transfer switch to avoid manual switching of power sources. Per the request of LOCSD, the generator will be mounted on a trailer and regularly located at this lit station. A trailer mounted generator has a less stringent permitting process through the County of Santa Barbara Air Pollution Control District (APCD). It is recommended to construct a building to house the trailer mounted generator to protect it from the elements, screen it from the public, and security purposes.

The Grand LS needs to include a hookup for the potable standby generator in case of a power outage. The hookup should be located so that it is accessible to the standby generator without the use of long conductors.

For discussion purposes, during a power outage where both lift stations are without power, each lift station could have its own dedicated generator. it is also possible to run both the Santa Barbara LS and Grand LS from a single generator. This would require conductors to be ran along the same alignment as the sewer force main from the Grand LS to the Santa Barbara LS which includes mounting on the downstream side of the bridge over Alamo Pintado Creek. The conductors would need to be sized to adequately deliver the required power from the generator to the Grand LS. The standby generator itself would also need to be sized to handle the required locked rotor start up loads and all other loads at both lift stations simultaneously.

The generator set should be designed by a licensed Electrical Engineer during final design.

### 2.2.5 Instrumentation and Controls

#### 2.2.5.1 Control System

The control system is vital to the operation of the pumping system and is typically located at the lift station. It receives and provides signals to automatically operate and protect the pumping and other systems as well as provide alarms. The control system is typically equipped with a local control panel with interface and Programable Logic Controller that is used to turn on and off the pumps at specified set points and control other systems. These systems normally have Hand-Off-Automatic settings based on the desired operation. The control system uses the output signals from various instruments for automatic operation of the pumping system and other systems such as an aeration or odor control system. It is typical for control systems to come packaged with the pumping system designed and integrated by the pump manufacture. The control system, if specified, can be integrated with HMI devices and/or SCADA devices and software for remote operation and data collection.

As discussed further in section 2.3, the wastewater pumps in the Santa Barbara LS may need to be controlled by an integrated frequency convert or variable frequency drive (VFD) due to the downhill nature from lift station to point of connection. The VFD will be part of the controls system and can drive the pump to discharge at a specified flow rate regardless of the head required by the system. By reducing or

increasing the power frequency using control programming, the VFD can reduce or increase the rotational speed of the pump impeller to discharge at the desired rate. The control system including the VFD should be specified during final design.

#### 2.2.5.2 Level Measurement

It is typical to have multiple systems for liquid level measurement in the wet well for redundancy. Typically pressure transducers and level float systems are used to measure the liquid level in the wet well and provide a feedback signal to the control system for level control. There are various types of pressure transducers that are used in wet wells to provide fluid level data back to the control system. Some common types include hydrostatic and ultrasonic level transducers. Hydrostatic types can be submerged and mounted to the side or the bottom of the wet well. They use pressure on an internal sensor diaphragm to relay an analog signal back to the control system. Ultrasonic level transducers can be mounted above the fluid, non-contact, and use ultrasonic pulses to the measure down to the fluid and relay a signal back to control system. Level floats can either be used as the primary or secondary level measurement system. The level float systems use floats on top of the liquid connected to a cable to measure the high level and low level within the wet well and turn the pump on or off or trigger alarms. Each system has its advantages and disadvantages depending on the fluid in the wet well.

For this project, it is recommended to have an ultrasonic level transducer mounted above the fluid as the primary level measuring system and float system as the secondary system. Ultrasonic level transducers provide high accuracy measuring, are easy to install, are easy to access, and reduce maintenance because they are not submerged. It is anticipated that the incoming wastewater will have a low percentage of fats, oils, and greases due to the predominantly residential flows. Fats, oils, and greases become a concern when they accumulate and form a layer at the top of the wastewater which can provide false reading when using an ultrasonic level transducer.

#### 2.2.5.3 Set Points

Set points are the liquid levels within the wet well that trigger various functions with the control system. These liquid levels are programmed into the control system and are triggered when the continuous signal from the level measuring system in the wet well measures these levels. Common set points for wet well operation are:

- Minimum Submergence (discussed previously) at low level alarm
- Low level 1 (lead pump OFF)
- Low level 2 (lag pump OFF)
- Lead Pump ON
- Lag Pump ON
- High Level Alarm

See Figure 9 for typical set points within the wet well.

Figure 9: Set Points Example



#### 2.2.6 Discharge Header

The discharge header from the pumping systems consists of vertical piping up through the wet well that typically penetrates the wet well side wall at a desired elevation. This elevation is dependent on various factors, but typically is at the depth of the sewer force main below the ground surface. For this project the force main will be a minimum of 4 feet below the ground surface. The discharge piping will be separate from each pump, will continue to a buried valve vault where they will converge to a single force main. Prior to convergence, the discharge mains will have combination air release and vacuum valves to exhaust air at pump start up, allow accumulated air to leave the pipeline during operation, and intake air

to avoid vacuum conditions when the pump(s) turn off. Inside the valve each discharge main will be equipped with check valves for back flow prevention and plug valves for isolation.

### 2.2.7 Valve Vault

The valve vault structure is typically a pre-cast rectangular reinforced concrete structure buried in the ground to accommodate the depth of the discharge piping. Inside the valve vault, each discharge main will be equipped with check valves for back flow prevention and plug valves for isolation. It is also recommended to install a magnetic flow meter after the discharge mains converge for measuring the flow of the wastewater inside the force main. The valve vault should be large enough to accommodate the piping, valves, meters, and appurtenances and allow for proper operation and maintenance of these items. As discussed further below, force main size for this Project is recommended to be 6" and 4" for the Santa Barbara LS and Grand LS, respectively. This will require an approximate 6-foot x 8-foot vault should also have a floor drain with a pipe that slopes back to the wet well in case there is any leakage or incidental storm water inside the vault.

### 2.3 Sewer Force Main

Sewer force mains are pipelines that convey pressurized wastewater to a discharge point by the use of a pumping system. Typically, sewer force mains are constructed using pipeline materials such as ductile iron pipe (DIP), high density polyethylene (HDPE), or polyvinyl chloride (PVC). These materials have advantages such as long useful life, high flow capacity, constructability, and corrosion resistance. Using these materials allows for traditional pipeline construction with restrained joints and prefabricated fittings. Table 2-5 shows the general advantages and disadvantages for each pipeline material.

Pipeline Material	Advantages	Disadvantages
DIP	<ul> <li>Rigid (for shallow depth and above ground applications)</li> <li>Simple construction</li> </ul>	<ul><li>Lots of joints</li><li>Requires restraining at key locations</li></ul>
HDPE	<ul> <li>Fully restrained with virtually no joints</li> <li>Very flexible with a small bending radius for horizontal and vertical bending (25*OD)</li> <li>Can be install via trenchless methods</li> </ul>	<ul> <li>Requires special fusing equipment during construction and repairs</li> <li>Not recommended for above ground applications</li> </ul>
PVC	<ul> <li>Simple construction</li> <li>Somewhat flexible; can incorporation horizontal and vertical bending (250*OD)</li> </ul>	<ul> <li>Lots of joints</li> <li>Requires restraining at key locations</li> <li>Not recommended for above ground applications</li> </ul>

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Sewer force mains typically reduce the size and depth of sewer mains and, in general, decrease the cost of construction compared to a gravity system. Sewer force mains are primarily used when a discharge



point in the wastewater system is at a higher elevation than the collection point of the system. This includes crossings along bridges. The Project includes two bridge crossings that require the use of a sewer force main. It is also understood that utilizing a pressurized pipeline for the entire alignment may discourage any future development in the surrounding area.

### 2.3.1 Alignment

The proposed alignments for the sewer force mains from Grand LS and Santa Barbara LS will follow public rights-of-way to minimize disruptions and streamline construction. As previously mentioned, the sewer force main conveying wastewater to the City of Solvang, referred to as SFM-1, will begin at the Santa Barbara LS located at the intersection of Alamo Pintado Road and Santa Barbara Avenue and extend to the proposed POC (MD-114) at Solvang's wastewater infrastructure. Along the alignment, the pipeline will cross Alamo Pintado Creek via two bridge crossings. For the SFM-1 alignment There are options to use trenchless construction for runs up to 1000-ft and below the creek crossings. Utilizing trenchless construction such as Horizontal Directional Drilling (HDD) can reduce the construction duration, minimize construction costs, and is less invasive than traditional open cut trenching. This would require the use of seamless flexible pipe such as HDPE. Trenchless construction does require specialized equipment and specialized construction crew to perform the work. The excavations for the sending and receiving pits may require shoring designed by a Registered Civil or Structural Engineer.

Trenchless construction below the creek crossings would require jurisdictional permits and may require a scour analysis of Alamo Pintado Creek to determine an adequate depth for the boring. It is recommended that the pipelines be hung along the downstream side of the bridges to avoid drilling below the creek crossings. This would require approval from Santa Barbara County. Hanging the pipeline along the bridges would require structural design of supports and brackets and it is recommended to use fully restrained rigid pipe such as ductile iron.

The sewer force main from the Grand LS to Santa Barbara LS, referred to as SFM-2, will be routed across Alamo Pintado Road and mounted to the downstream side of Bridge 51C-80 over Alamo Pintado Creek and terminate at Santa Barbara LS wet well. Because of the relatively short length of SFM-2, trenchless construction doesn't provide significant advantages over open-cut trench construction so it is recommended to utilize open-cut trenching.

### 2.3.2 Pipeline Sizing

Sewer force mains are typically sized by analyzing the hydraulics, maintaining desired velocities, and anticipating maintenance requirements. To properly analyze the hydraulics, a system curve must be established. The system curve is dependent on the frictional characteristics of the pipeline material and appurtenances, the length of piping, and elevation information. For this Project, this report will assume that the discharge flow rate through the force main is equal to the PWWF which equates to 334.5 gpm and 246.6 gpm for the Santa Barbara LS and Grand LS, respectively. For two pumps in operation, the maximum flow rate is assumed to be doubled, but this is highly dependent on the actual pump curve and the system curve. Typical design velocities within sewer force mains range from 2 to 8 feet per second



(fps) during normal operation to convey solids while also minimizing the risk of scouring of the pipeline. For this Project, velocities will be held below 6 fps while a single pump is on, and below 12 fps when two pumps are discharging. To estimate the force main sizes required to maintain these velocities during operation, we will use the following equation:

$$A (area) = \frac{Q(flow)}{V (velocity)}$$

$$A (area) = \frac{334.4 \, gpm}{4 \, fps} * \frac{1 \, ft3}{7.48 \, gallons} * \frac{1 \, minute}{60 \, second} = 0.1864 \, ft2$$
$$D, (diameter) = \sqrt{Area} * \frac{4}{\pi} = 0.4872 \, ft = 5.9 \, inches$$

Table 2-6 shows the pipeline material, friction coefficient, and pertinent hydraulic information used in to analyze the sewer force main for the Santa Barbara LS. The cost per linear foot (LF) is the construction costs for the pipe that includes the pipe material, installation, and construction method.

Pipeline Material	Nominal Size (inches)	Inside Diameter, I.D. (inches)	Hazen-Williams Friction Coefficient, C	Velocity (fps)	Design Flow (gpm)	Cost / LF
DIP Class 50 (40 mils ceramic epoxy lined)	6	6.32	130	3.34	334.4	\$300/ LF
HDPE DR 21	6	5.96	140	3.85	334.4	\$300/ LF
PVC CL165	6	6.31	145	3.43	334.4	\$250/LF

Table 2-6: Santa Barbara LS Force Main Material Comparison

Table 2-7 shows pipeline material, friction coefficient, and pertinent hydraulic information used in to analyze the sewer force main for the Grand LS.

Table 2-7: Grand LS Force Main Material Comparison

Pipeline Material	Nominal Size (inches)	Inside Diameter, I.D. (inches)	Hazen-Williams Friction Coefficient, C	Velocity (fps)	Design Flow (gpm)	Cost / LF
DI Class 50 (40 mils ceramic epoxy lined)	4	4.30	130	5.45	246.6	\$280/LF
HDPE DR 21	4	4.05	140	6.15	246.6	\$280/LF
PVC CL165	4	4.39	145	5.22	246.6	\$230/LF

This report recommends using PVC for the Grand LS sewer force main due to the material availability, open-cut trenching recommendation, future maintenance and repair considerations, and cost per linear foot. For the Santa Barbara LS force main it is recommended to use HDPE due to the long pipeline length, minimal joints required, the construction could utilize directional drilling as necessary, and HPDE

has a short bending radius that is optimal for the bridge transitions and meeting necessary clearances from crossing utilities

### 2.3.3 Hydraulic Analysis

A hydraulic analysis was conducted to initially size the wastewater pumps within the sewer lift stations and the sewer force mains. Based on the friction losses caused by the velocity through the pipelines, bends, and appurtenances as well as the elevation data along the alignment of the pipeline, a system curve was developed. Specifically for the Santa Barbara LS, the system curve developed through the 6-inch pipeline shows that approximately 116 ft of headloss is generated and the elevation difference from the LS to SMH MD-114 is -219.75 ft. See Table 2-8 below for a hydraulic summary of each pumping system.

Table 2-8: Hydraulic summary
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	Flow (gpm)	Pipe Size (in)	Length (ft)	Start Elev. (ft)	End Elev. (ft)	Friction Loss (ft)	Min. Head Required (ft)
Grand LS	246.6	4	475	738.11	742.50	13	20
Santa Barbara LS	334.4	6	18,000	733.75	514.00**	116	15*

\*Since the friction loss gradient is less than the elevation gain gradient from Santa Barbara LS to Solvang's SMH MD-114, the required head shown is the head required to lift wastewater from wet well to discharge piping. \*\*Assumed elevation of SMH MD-114, point of connection to Solvang's collection system.

The grade change from the Santa Barbara LS to Solvang's SMH MD-114 has an average downhill slope of 1.2%. The elevation difference from the Santa Barbara lift station to any point along the pipeline is greater than the friction loss within the pipeline at the specified flow rate. This means that gravity can convey the fluid from the Santa Barbara LS to the point of connection without additional pressure from the pumping system. There are multiple localized high points along the alignment due to the natural terrain, two bridge crossings, and the static lift required to get the wastewater from the wet well to the discharge piping, that warrant a pressurized sewer.

In general, pumps will operate where their pump curve meets the system curve. Because of the downhill nature of the system, the pump(s) within the Santa Barbara LS may operate off of their curves as system doesn't require additional head to covey the fluid. A pump operating off its respective curve can lead to overcurrent which could damage the motor. To avoid pumping beyond the limits of the pumping system, sufficient head needs to be applied against the pump so it operates on its curve, or the pump should be equipped with speed control, such as a variable frequency drive (VFD), to meet the desired flow rate regardless of the system head required. Utilizing a VFD can be adjusted to accommodate lower flows that may be expected during the weekdays and while phases of collection system are constructed.

Possible solutions to apply head against the pump include reducing the pipeline size and/or providing standpipes along the alignment. It is impractical to reduce the pipe sizing for portions of the pipeline due to any high-capacity needs for flows beyond the PWWF. Also, applying sufficient head through a series of



standpipes would lead to multiple portions of stagnant wastewater and would require multiple air release and odor control stations along the pipeline which may require significant maintenance. The most desired option is to equip the pumping system at Santa Barbara LS with a VFD.

### 2.3.4 Isolation Valves

An important aspect of sewer force main conveyance systems is to provide regularly spaced and strategically located gate or plug valves for isolation of pipeline segments in order to do maintenance or repairs without having to drain large portions of the force main. It is common practice to place Isolation valves every 1,250 to 1,500 linear feet (LF) for long straight runs and at the upstream and downstream segments at bridge crossings.

The sewer force main from Santa Barbara LS will be approximately 18,000 LF and will require a minimum of 14 isolation valves along the pipeline and 4 isolation valves at the two bridge crossings for a total of 16 isolation valves.

The sewer force main from Grand LS to Santa Barbara LS will be approximately 475 ft and require a minimum of 4 isolation valves, one of either side of the bridge and one for each pump discharge force main in the valve vault.

### 2.3.5 Wastewater Combination Air Release and Vacuum Valves

Another important aspect to pressurized conveyance systems is to minimize that amount of accumulated air within the pipeline during operation. Large pockets of air caused by pumping and / or dissolved air in the fluid can accumulate at high points along the pipeline alignment and cause a reduction in flow. To purge the pipeline of accumulated air, air release valves are strategically placed at localized high points along the alignment and at the discharge headworks of the pumping system. In addition to purging accumulated air, there may be a need to intake air to allow gravity flow and/or break a syphon and to exhaust a large amount of air during start up. To achieve this, combination air release and vacuum valves specifically made for wastewater applications will be used. These valves are equipped with a combination of large orifice and float valve to intake/exhaust large volumes of air as well as a smaller air release valves are typically placed along the pipeline at long horizontal runs and changes in slope. These valves will be incorporated along the established pipeline alignments during the preliminary design phase.



# 3 Design Recommendations Summary

Below is a summary of the design recommendations for the Project.

	Grand Ave (eastside) Lift Station	Santa Barbara Ave (westside) Lift Station		
Wet Well Capacity (gallons)	1,250	10,000		
Pump Duty Point (gpm)	246.6	334.4		
Min. Head Required (ft)	20	15		
Odor Control	No	yes		
Generator	Served from Santa Barbara Ave Lift Station	Trailer mounted generator located at site		
Site	Designated parking	Driveway access		
Force Main Diameter (in)	4"	6"		
Fore Main Material	PVC	HDPE		

Table 3-1: Summary of Design Recommendations

