



STATE OF THE DISTRICT

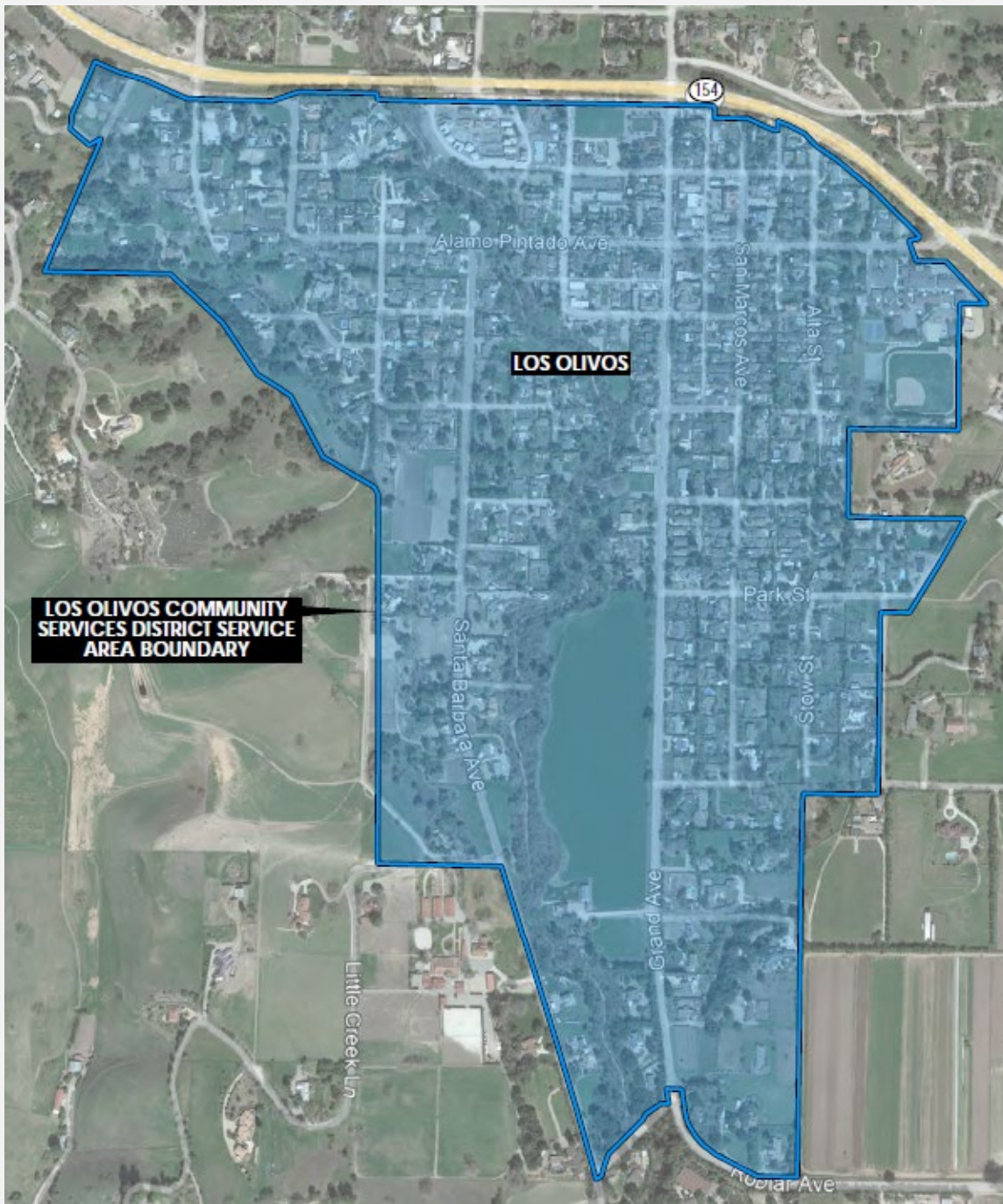
Guy Savage
General Manager



LOS OLIVOS COMMUNITY SERVICES DISTRICT

- Special Problems Area designation 1974
- District formed in January 2018 by voters
 - 73% of voters in favor of formation
 - Ensures local control
- If we didn't form, County could build a sewer or require connection to another facility
 - ➔ Doing nothing is not a long-term option





THE DISTRICT

384 Parcels
~45 Commercial
~339 Residential



WASTEWATER PROCESS SIMPLIFIED

Collection – takes effluent from your home and moves it to where it will be treated

Treatment – a series of physical and biological processes to separate contaminants in the waste stream

Disposal – reintroduces treated effluent into water cycle (injection, percolation, purple pipe reuse, other uses)



KEY 2022 ACTIVITIES

- 30% design gravity collection
- 10-15% design Septic Tank Effluent Pumping (STEP) collection
- Membrane Bioreactor (MBR) treatment
- Passive Treatment
- Effluent disposal next Wednesday



KEY 2022 ACTIVITIES CONTINUED

- Advanced on-site
- Two monitoring wells
- Initial assessment models, no answers yet



FINANCIALLY SOUND

- Consistent special tax revenues - \$233,000 (FY 2022-23)
- State and County grants - \$330,000

Report : Financial Status (Real-Time)
 Selection Criteria: Fund = 3490
 Layout Options: Summarized By = Fund, LineItemAccount; Page Break At = Fund
 Last Updated: 12/2/2022

As of: 11/30/2022

Fund 3490 – Los Olivos CSD

Line Item Account	8/30/2023 Fiscal Year Adjusted Budget	11/30/2022 Year-To-Date Actual	8/30/2023 Fiscal Year Variance	8/30/2023 Fiscal Year Pct of Budget
Revenues				
Taxes				
3066 -- Special Tax Assessment	136,475.00	-7.00	-136,482.00	-0.01%
Taxes	136,475.00	-7.00	-136,482.00	0.00%
Use of Money and Property				
3380 -- Interest Income	724.00	339.43	-384.57	--
3381 -- Unrealized Gain/Loss Investments	0.00	0.00	0.00	#DIV/0!
Use of Money and Property	0.00	339.43	-384.57	#DIV/0!
Intergovernmental Revenue-Other				
4840 -- Other Governmental Agencies	169,804.00	5,662.50	-164,141.50	3.33%
Intergovernmental Revenue-Other	274,000.00	5,662.50	-268,337.50	2.07%
Revenues	306,279.00	5,994.93	-301,008.07	1.96%
Expenditures				
Services and Supplies				
7090 -- Insurance	2,500.00	2,799.92	299.92	112.00%
7324 -- Audit and Accounting Fees	4,000.00	0.00	-4,000.00	0.00%
7430 -- Memberships	1,200.00	0.00	-1,200.00	0.00%
7450 -- Office Expense	2,000.00	0.00	-2,000.00	0.00%
7460 -- Professional & Special Service (Project, Planning & Studies)	189,908.00	114,755.41	-75,152.59	60.43%
7508 -- Legal Fees	30,000.00	12,744.05	-17,255.95	42.48%
7510 -- Contractual Services (IGM Contract, Engineer)	49,000.00	32,573.10	-16,426.90	66.48%
7530 -- Publications & Legal Notices	1,000.00	0.00	-1,000.00	0.00%
7671 -- Special Projects	175,000.00	0.00	-175,000.00	0.00%
7732 -- Training	1,500.00	0.00	-1,500.00	0.00%
Services and Supplies	456,108.00	162,872.48	-293,235.52	35.71%
Expenditures	456,108.00	162,872.48	-293,235.52	35.71%



**LET'S BE
CLEAR**

Collection

Treatment

Disposal

Siting

Phasing



DOUGHNUT SHOP



LET'S BE
CLEAR

Collection

Treatment

Disposal

Siting

Phasing

NO DECISIONS MADE!



THE YEAR AHEAD

-- SUBJECT TO CHANGE --

December

January

February

March

April

Late 2023?

Complete
Studies

Discussion
and Decisions

Environmental
Review

Proposition
218 Vote

12/14 – Regular Meeting Effluent Disposal Study

1/11 - Hybrid Regular Meeting, **EHS/Waterboard Workshop**

1/17 - **Collection/Treatment/Disposal Workshop**

1/24 - **Phasing, Siting Workshop**

2/15 - Regular Meeting **Workshop Recap**

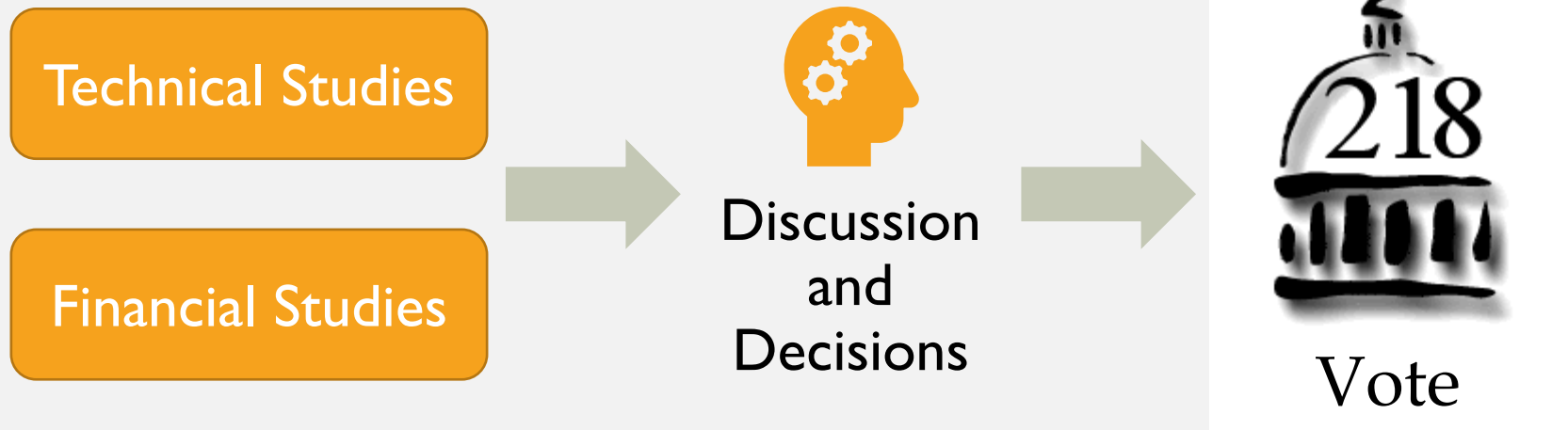
2/21 - **Prop 218 Overview, Financing, Project Description Workshop**

3/15 - Regular Meeting **Workshop Recap**

- - - - additional workshops as needed - - - -



HOW DOES IT FIT TOGETHER?



WHO VOTES FOR WHAT?

Registered voters within the District created the CSD and elect of officers

- Four officers elected in November 2022

District property owners have a benefit assessment vote in a Proposition 218



WHAT
DOES IT
MEAN TO
ME?

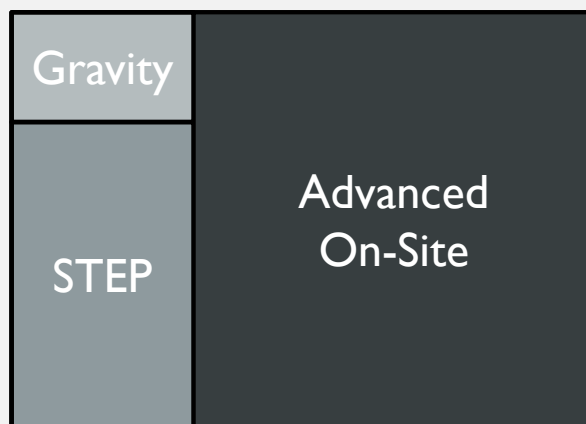


IMPACT TO YOU AND YOUR PROPERTY

Gravity Collection – pipes only (deep enough for gravity)

STEP Collection – pipes, tank, electrical, pumping access

Advanced On-Site – permits, tank, electrical, treatment, filters, disposal field or method, pumping access



Note: With all three approaches, your existing septic tank becomes obsolete

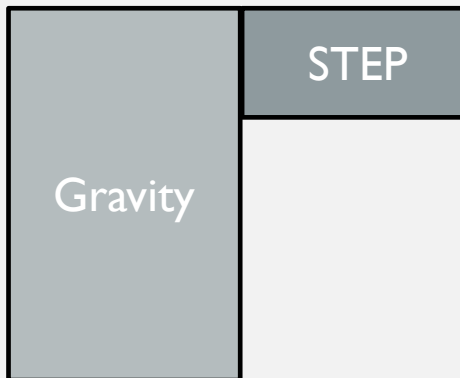


IN THE COMMUNITY AND SITED PROPERTY

Gravity – pipes (deep enough for gravity), optional lift station, MBR treatment, disposal

STEP – smaller pipes (3-4' underground), MBR treatment, disposal

Advanced On-Site – No direct community impact (individual property owners only)



30% DESIGN GRAVITY COLLECTION WITH MBR TREATMENT

	North Option	South Option
Zone 1	\$30,300,000	\$28,700,000
Zone 2	\$ 1,700,000	\$ 1,700,000
Zone 3	\$15,800,000	\$15,800,000
Total	\$47,800,000	\$46,200,000

Operations and Maintenance: \$300 - 400k per year



10 - 15% DESIGN STEP COLLECTION WITH MBR TREATMENT

Construction	
Zone 1	\$ 22,035,500
Zone 2	\$ 1,516,500
Zone 3	\$ 13,507,000
Total	\$37,059,000

Operations and Maintenance: \$350-500k per year, plus electrical



ADVANCED ON-SITE (EVERYTHING ON YOUR PARCEL)

Construction	
Per Residential Parcel	\$30,000-70,000
Case-by-case for use on commercial properties	n/a

Operations and Maintenance: \$1,500-1,900 per year, including permits and pumping



WANT MORE???

- Visit us at:
www.losolivoscscsd.com
- Subscribe to our updates:
www.losolivoscscsd.com/subscribe
- Contact me:
Guy Savage
gm.locsd@gmail.com
(805) 500-4098



**QUESTIONS
AND
DISCUSSION**

**U S POST OFFICE
LOS OLIVOS CAL
Ca 93441**



BACKUP SLIDES



BASICS



WASTEWATER AND GOVERNMENT SPEAK

LAFCO

CEQA

MBR

WRF

UV

GMP

STEP

GSA

TDS

WWTP

RWQCB

WWMP

SPA

OWTS

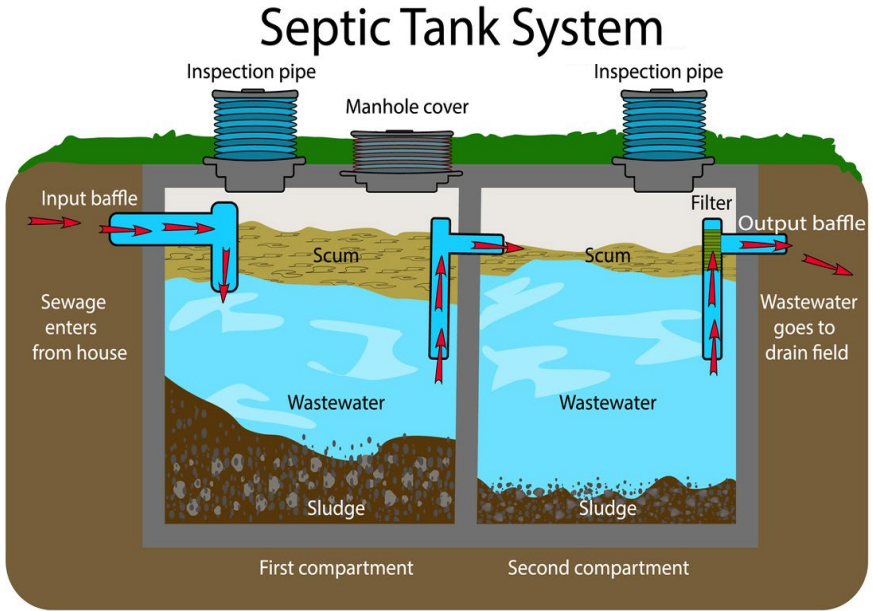
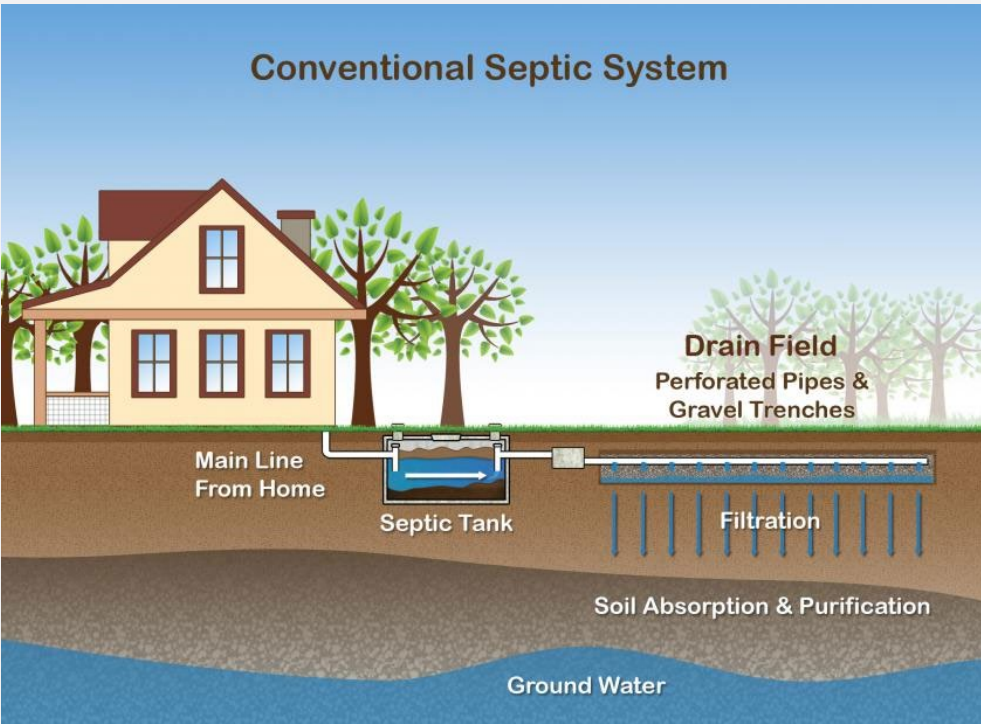
PER

ROW

EHS



SEPTIC TANK SYSTEM



ALTERNATIVES TO SEPTIC SYSTEMS

Advanced On-Site systems
(aka full treatment on-site)

Gravity collection

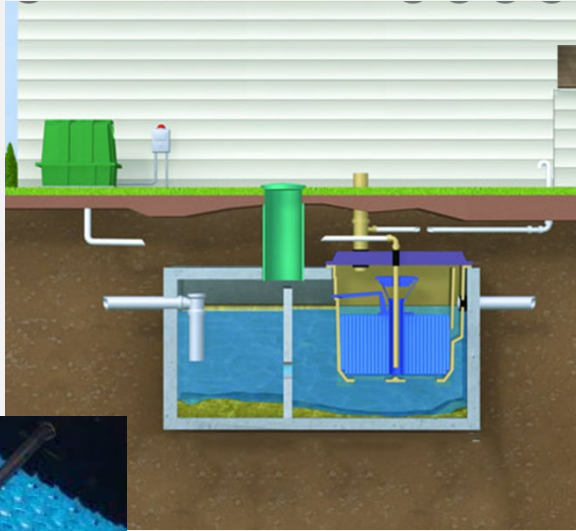
Septic Tank Effluent Pumping
(STEP) collection / treatment

Treatment

Disposal



ADVANCED ON-SITE SYSTEM (EVERYTHING ON-SITE)



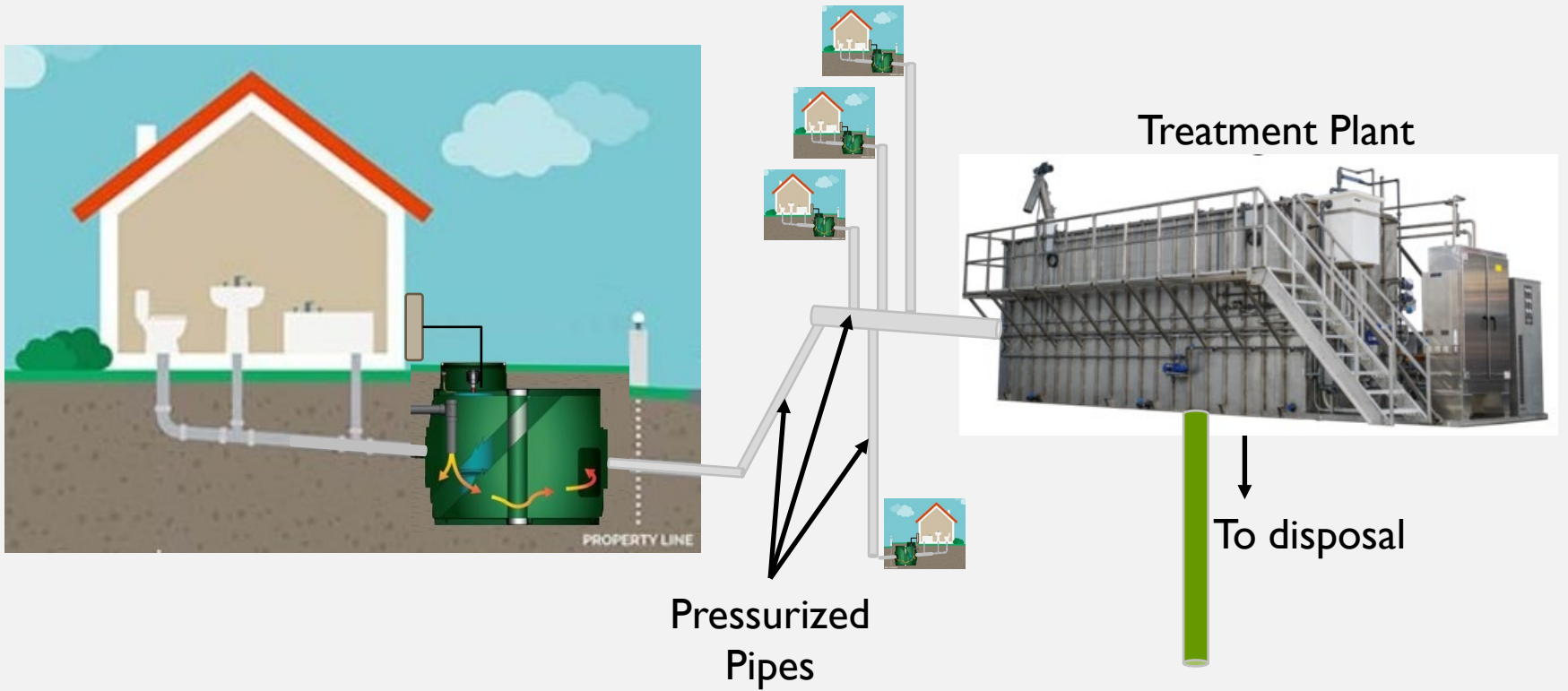
GRAVITY FED COLLECTION



To disposal



SEPTIC TANK EFFLUENT PUMPING (STEP)



HISTORY



THE BRIEFEST HISTORY

- Special Problems Area designation 1974
- District formed in January 2018 by voters
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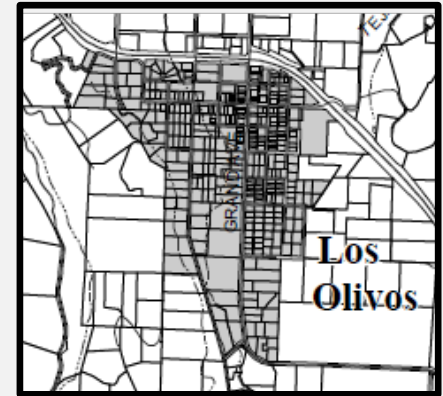


WHAT HAPPENED PRIOR TO FORMATION?

2009 SANTA YNEZ VALLEY COMMUNITY PLAN

[WEBSITE LINK](#)

- Established “urban” planning boundaries
- Set specific goals for land use and infrastructure
- Wastewater discussion begins on page 109



Policy WW - SYV - 3:

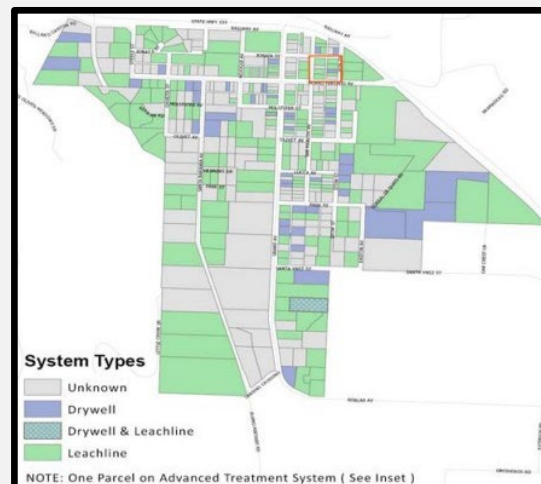
Annexation of inner - rural and rural area(s) to a sanitary district or extensions of sewer lines into inner - rural and rural area(s) as defined on the land use plan maps shall not be permitted unless required to prevent adverse impacts on an environmentally sensitive habitat or to protect public health



WHAT HAPPENED PRIOR TO FORMATION?

2010 LOS OLIVOS WASTEWATER MANAGEMENT PLAN [WEBSITE LINK](#)

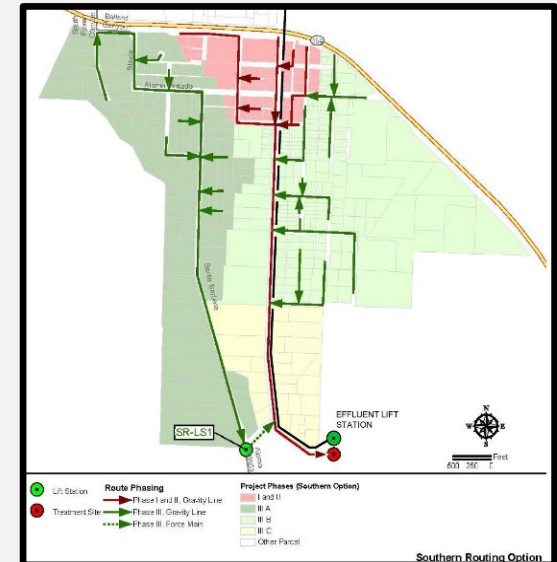
- Discussion about gravity versus septic tank effluent pumping (STEP) collection, membrane bioreactor (MBR) treatment, and advanced on-site systems
- Provides details on systems, types, percolation
- Groundwater quality issue discussion begins on page 28



WHAT HAPPENED PRIOR TO FORMATION?

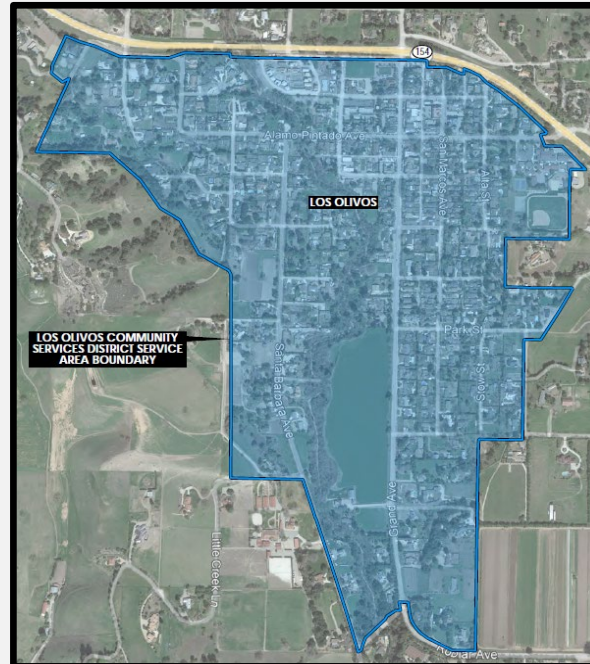
2016 UPDATED PRELIMINARY ENGINEERING REPORT [WEBSITE LINK](#)

- Detailed discussion about collection, treatment, disposal, and advanced on-site approaches
- Provided early design and associated costs
- Rather than following the tiered approach, analyzed a system that serves the entire SPA
- Focused on MBR treatment
- Evaluated two effluent disposal methods: infiltration and nonpotable reuse
- Analyzed “no action alternative”



2018 FORMATION

The District shall be authorized to collect, treat, and dispose of sewage, wastewater, recycled water, and storm water, in the same manner as a sanitary district, formed pursuant to the Sanitary District Act of 1923, Division 6 (commencing with Section 6400) of the Health and Safety Code. (Reference: Government Code sections 61011(a)(1), 61100(b))



SINCE FORMATION GRANT FUNDING

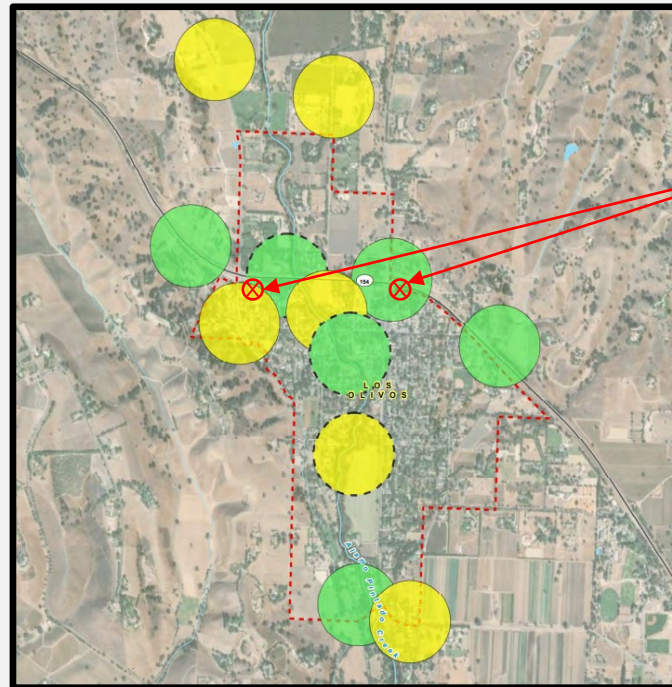
Year	Amount	Source	Activities
2020	\$30,000	County EHS	Loading Study, Groundwater Monitoring Plan planning
2020	\$120,000	County EHS	Groundwater Monitoring Plan, Preliminary Engineering Report
2020	\$150,000	State Waterboard	Water recycling, effluent disposal
2021	\$30,000	County EHS	Preliminary Engineering Report Update
	\$330,000	TOTAL	



SINCE FORMATION

2021 LOS OLIVOS GROUNDWATER MONITORING PLAN [WEBSITE LINK](#)

- Identified 12 shallow groundwater monitoring areas
- Prioritized into two groups



November 2022
Groundwater Monitoring Well

LEGEND

Proposed New Monitoring Well Zone

Phase 1

Phase 2

Nested Monitoring Well

All Other Features

Los Olivos Special Problem Area

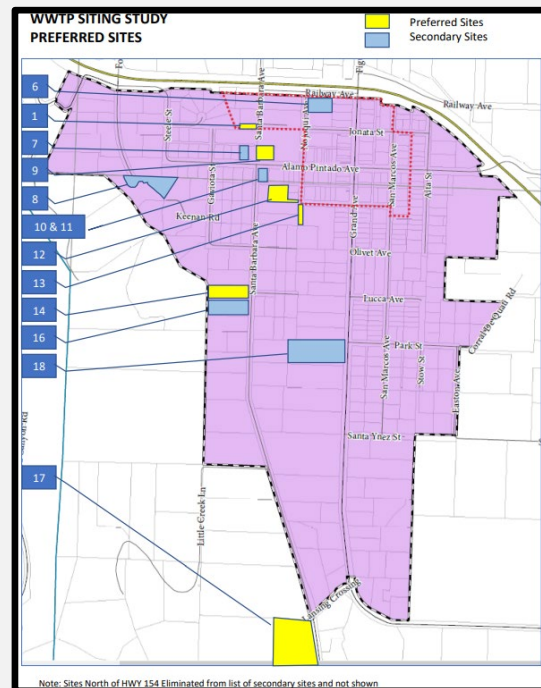


SINCE FORMATION

2021 SITING STUDY

[WEBSITE LINK](#)

- Examined 18 potential sites
- 3 groupings: preferred, secondary, north of I 54



HOW MUCH EFFLUENT (SEWAGE)?

[WEBSITE LINK](#)

Design Flows

	Existing Flows (Calculated)	Proposed 20 -Year Buildout Design Flows	ADUs	Proposed 20 -Year Buildout Design Flows with ADUs
	Average Daily Flows - gal (Maximum Daily Flows - gal)	Average Daily Flows - gal (Maximum Daily Flows - gal)	Average Daily Flows - gal (Maximum Daily Flows - gal)	Average Daily Flows - gal (Maximum Daily Flows - gal)
Zone 1 – Commercial & Residential Lots	27,800 (89,000)	43,800 (140,000)		43,800 (140,000)
Zone 2 – Near to Downtown Residential	10,500 (33,700)	10,800 (34,400)		10,800 (34,400)
Zone 3 – Remaining Residential	58,000 (185,800)	63,300 (202,400)	2,600 (8,300)	65,800 (210,700)
Total	96,400 (308,500)	117,800 (376,800)	2,600 (8,300)	120,300 (385,000)

Note: Flows from the Basis of Design Report by Stantec dated January 7, 2022



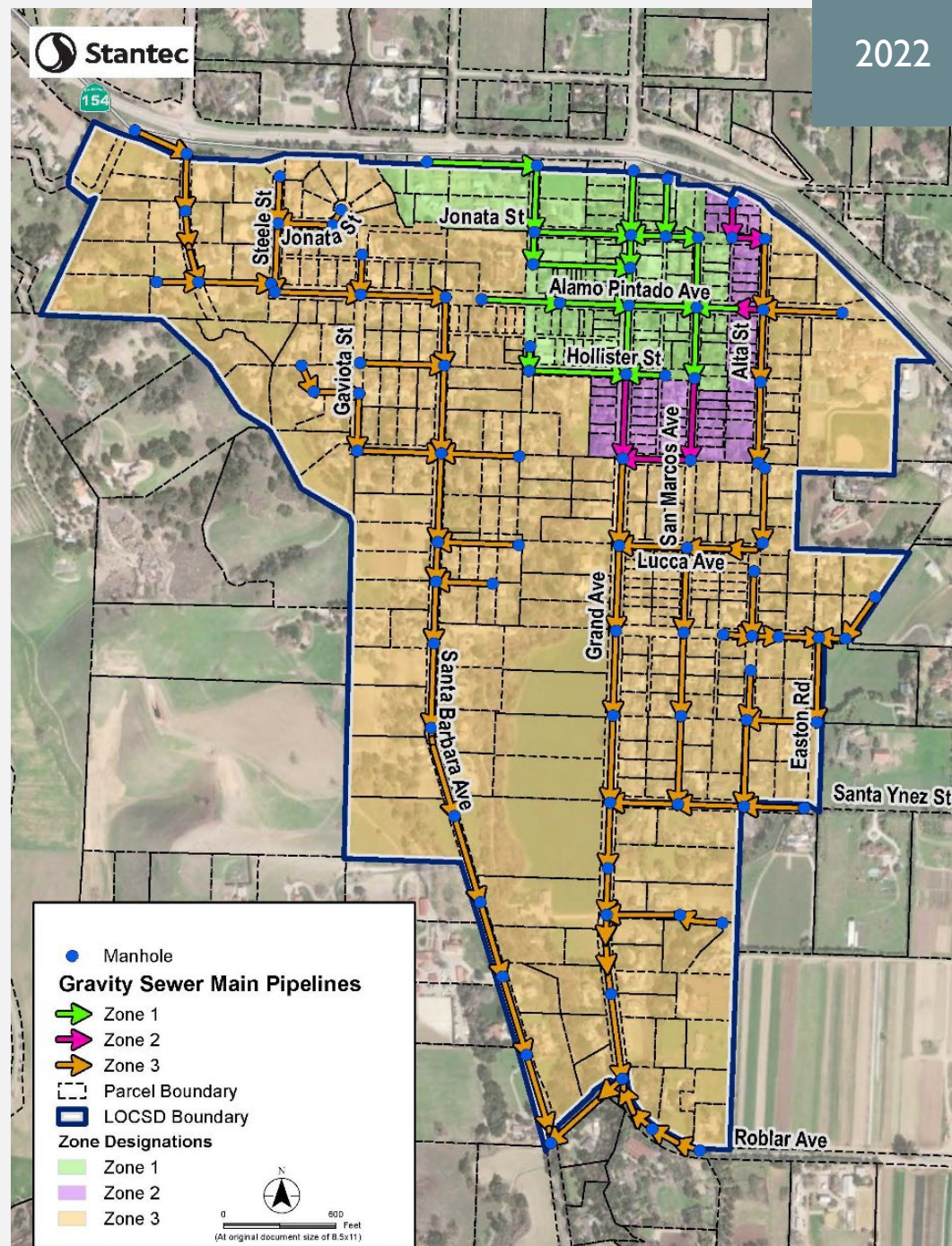
30% DESIGN

[WEBSITE LINK](#)

Gravity Collection, MBR Treatment



Zones 1 and 2



SEPTIC TANK EFFLUENT PUMPING (STEP)

[WEBSITE LINK](#)

- STEP collection, coupled with membrane bioreactor (MBR) treatment



COMMUNITY ADVANCED TREATMENT

[WEBSITE LINK](#)

AdvanTex Treatment

- Likely in the range of 20% to 50% more expensive than MBR
- Can be decentralized to more than one location
- Quicker to design and construct
- Larger footprint

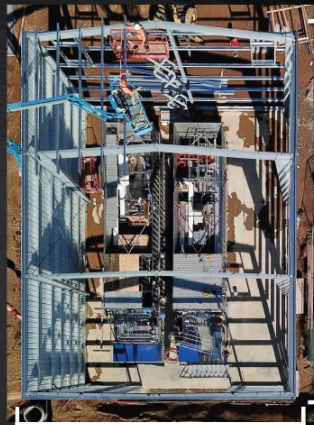


MEMBRANE BIOREACTOR (MBR) TREATMENT

[WEBSITE LINK](#)



PARKDALE SANITARY DISTRICT



65 FEET

45 FEET

Images from



For more information, visit:

<https://www.cloacina.com/>



EFFLUENT DISPOSAL STUDY

[COMING SOON: WEBSITE LINK](#)

- Examine five options and make a recommendation
 1. Percolation ponds
 2. Percolation chambers
 3. Shallow aquifer injection well(s)
 4. Alamo Pintado Creek outfall
 5. Disposal by sale for reclaimed water use
- Report to be provided at December 14 meeting



OPTIONS



COLLECTION

- Gravity
- STEP
- Advanced On-Site



TREATMENT

- Membrane Bioreactor (MBR)
- Passive
- Advanced On-Site



DISPOSAL

- Percolation ponds
- Percolation chambers
- Shallow aquifer injection well(s)
- Alamo Pintado Creek outfall
- Disposal by sale for reclaimed water use

- Advanced On-Site



SITING

- For shared infrastructure – 18 initial sites identified



PHASING

- Everyone seems to agree we must focus on downtown core first
- When and how residential parcels are phased could change depending on future discussions and decisions

