



Want more?

**Coffee with
a Director**

**1st and 3rd Friday
9:00 (ish)**

**Lefty's Coffee Co.
2896 San Marcos**





STATE OF THE DISTRICT
DECEMBER 2024

Guy Savage
General Manager

Board of Directors

Julie Kennedy

Tom Fayram

Tom Nelson

Lisa Palmer

Greg Parks





AGENDA

- What do you want to know?
- LOCSD overview
- What's happened
- What's next
- More Q & A



**WHAT DO YOU
WANT TO KNOW?**

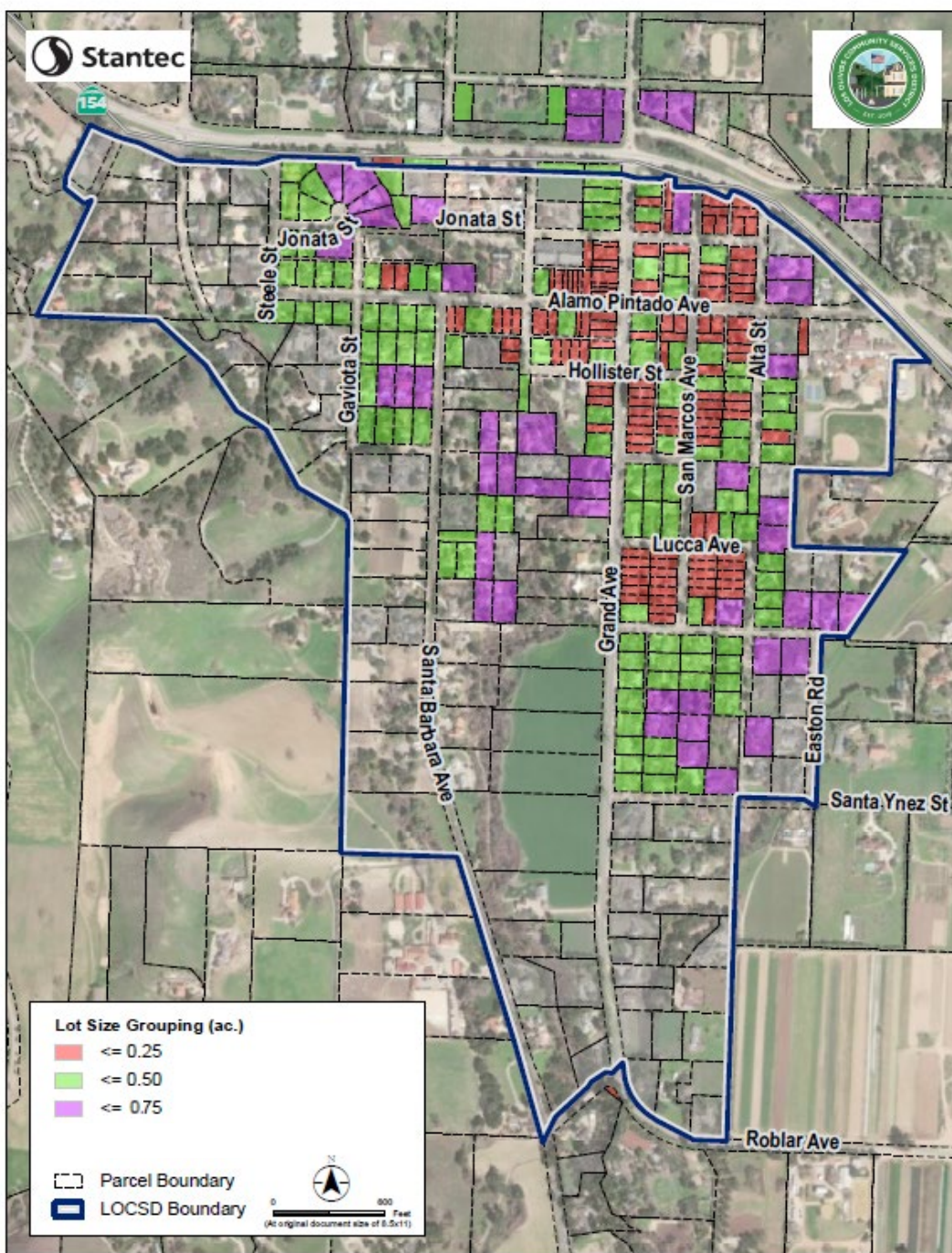
**WHAT ARE YOUR
QUESTIONS?**



LOS OLIVOS COMMUNITY SERVICES DISTRICT

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





Los Olivos Community Services District Lot Sizes

THE DISTRICT

372 Parcels
~40 Commercial
~332 Residential

Annual Budget
(FY 2024-25) \$243,039

WASTEWATER PROCESS SIMPLIFIED

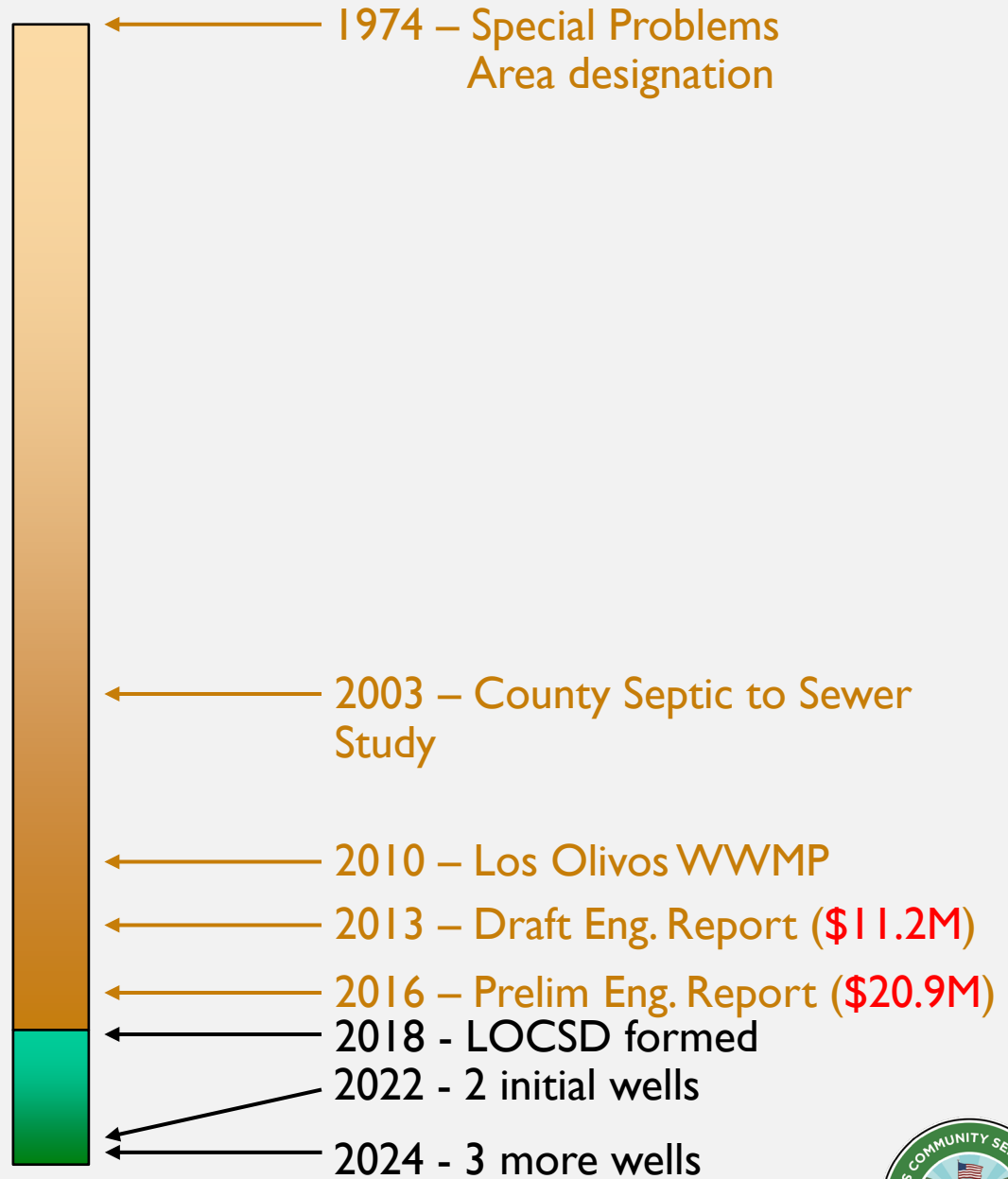
Collection – takes effluent from your home and moves it to where it will be treated

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

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



HISTORY ~ SPECIAL PROBLEMS AREA



2021 - 30% Design Gravity / MBR
\$47.8M

2022 - Disposal Study

2024
30% Effluent/Hybrid Design
30% Construction Estimates
\$46.7-\$53.0M



2024 KEY ACTIVITIES COMPLETED OR STARTED

- ✓ Community workshops
- ✓ 3 additional groundwater monitoring wells
 - ✓ Split sampling, additional sampling and testing – all 5 wells
- ✓ REGEN – 30% effluent/hybrid collection design
- ✓ Updates to collection, treatment, and disposal costs

Exploration of City of Solvang connection

- ✓ WSC and Carollo reports
- ✓ Stantec contract – bridge to Sunny Field Park
- Stantec report (early 2025)



2023 COMMUNITY WORKSHOP RESULTS

1. Construction (capital) cost
2. Operations and maintenance cost
3. Ownership / maintenance responsibility
4. Treatment plant location
5. Growth inducement
6. Odors
7. Treatment plant footprint / size
8. Viewshed impact
9. Innovation
10. Other



MORE 2023 COMMUNITY WORKSHOP RESULTS

Disposal

1. Percolation Chambers
 2. Percolation Ponds
 3. Injection wells
 4. Creek disposal
- Reuse with above



2024 COMMUNITY WORKSHOP

- REGEN presentation on Effluent / Hybrid collection
 - Stantec presentation on Gravity Fed collection
 - For those in attendance, heavy leaning towards Gravity Fed collection over Effluent / Hybrid
 - Conflict with 2023 Workshop Results???
1. Construction (capital) cost
 2. Operations and maintenance cost
 3. Ownership / maintenance responsibility

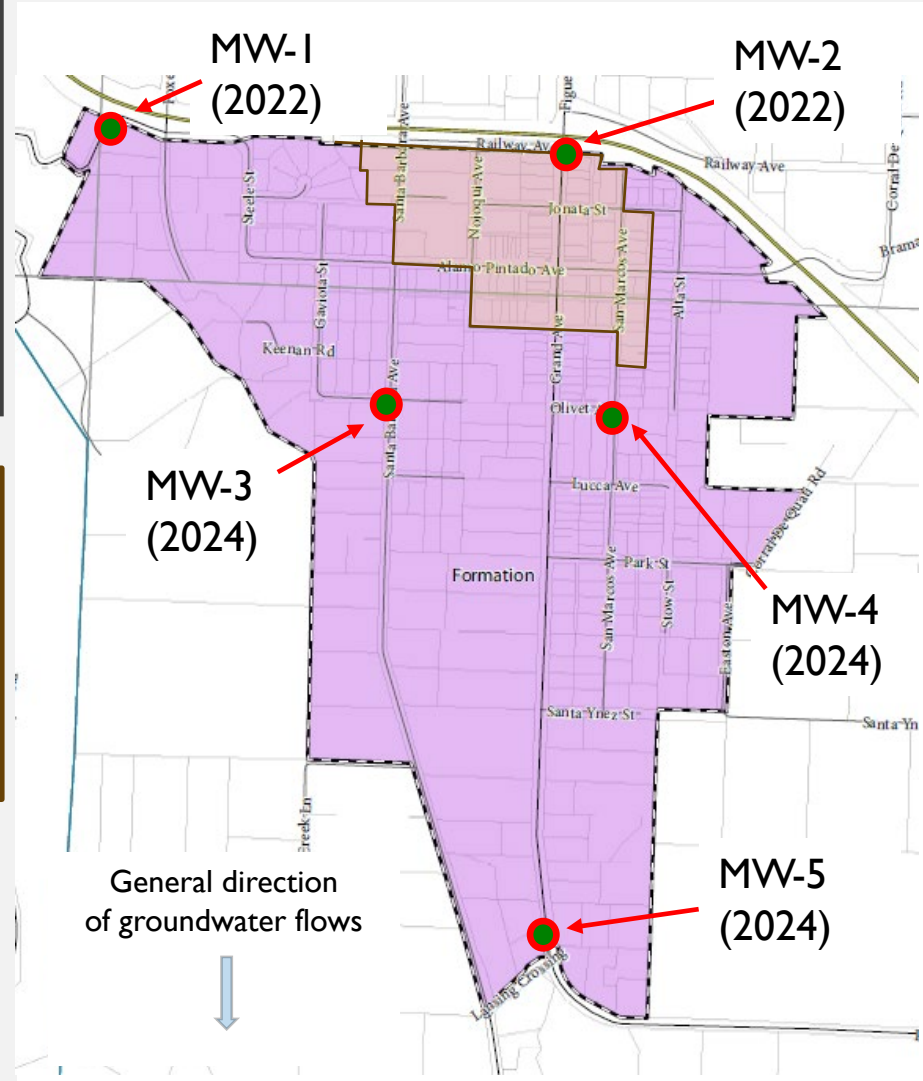


SHALLOW GROUNDWATER MONITORING WELLS

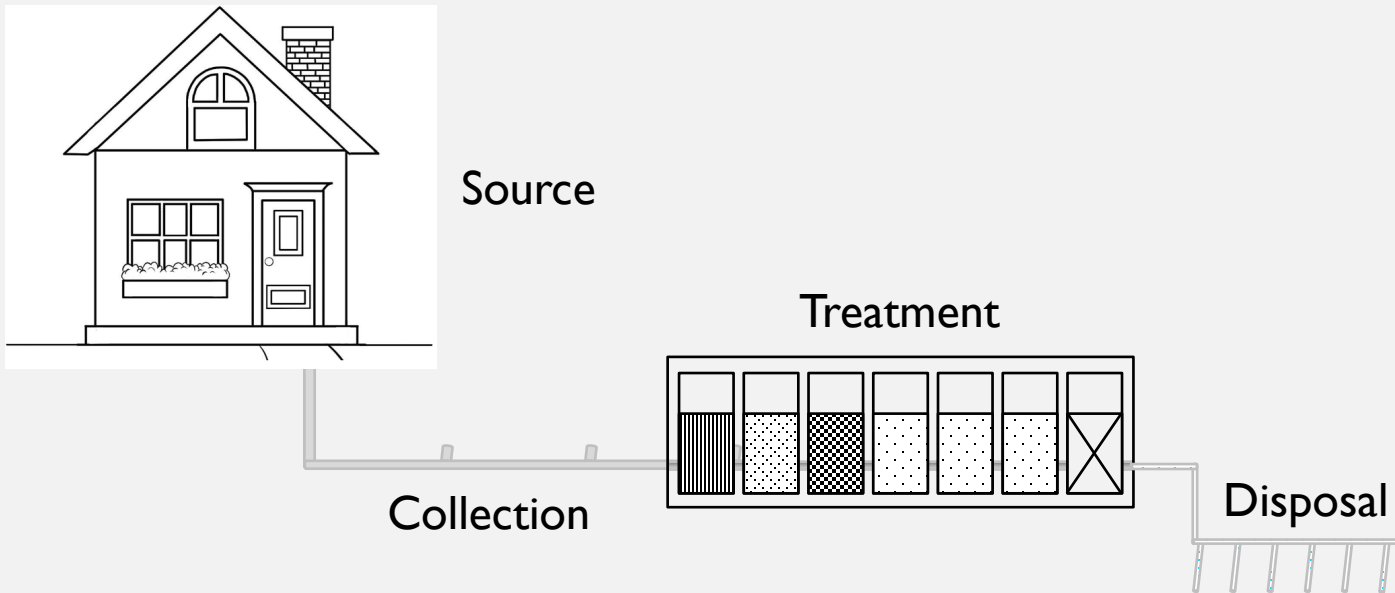
Nitrate Concentrations				
Well	Nov 2022	March 2024	May 2024	Nov 2024
MW-1	2.6	2.5	2.2	2.5
MW-2	10	11	9.9	12
MW-3		6.3	6.1	6.2
MW-4		11	14	13
MW-5		4.5	4.7	4.9

Maximum Contaminate Level (MCL) allowed is 10

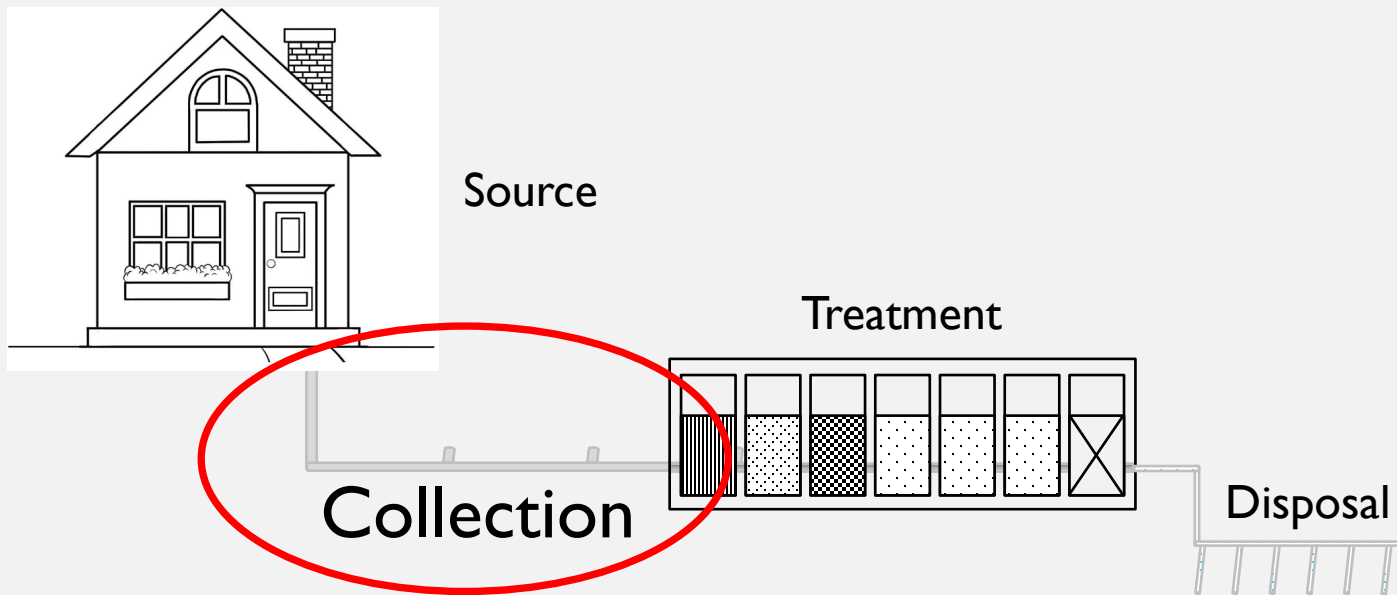
Well Depths (below ground surface)				
Well	Nov 2022	March 2024	May 2024	Nov 2024
MW-1			26.08	26.78
MW-2			31.89	27.13
MW-3			17.73	14.05
MW-4			20.72	17
MW-5			10.08	8.08



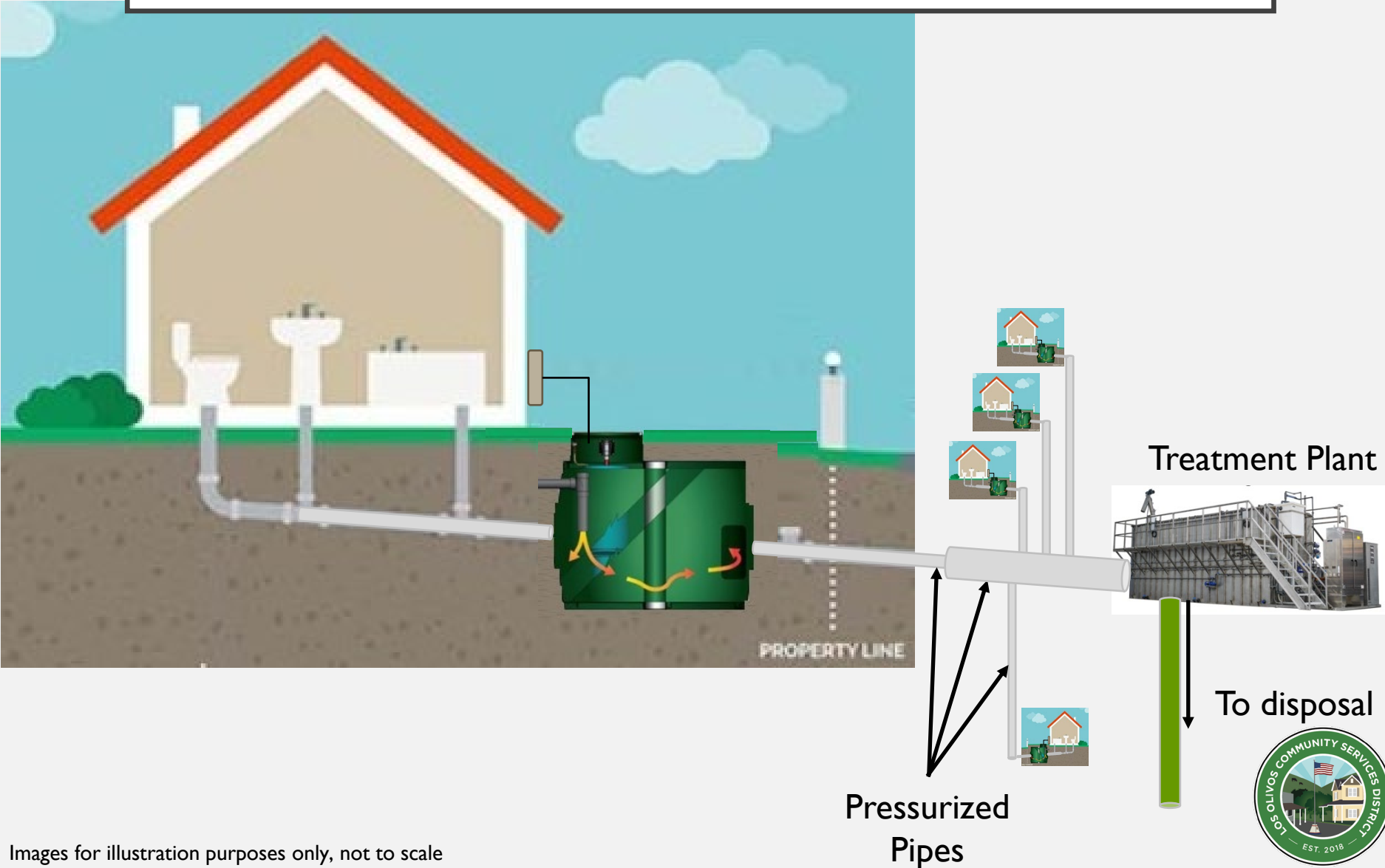
WASTEWATER PROCESS SIMPLIFIED



LOOKING AT COLLECTION MORE CLOSELY

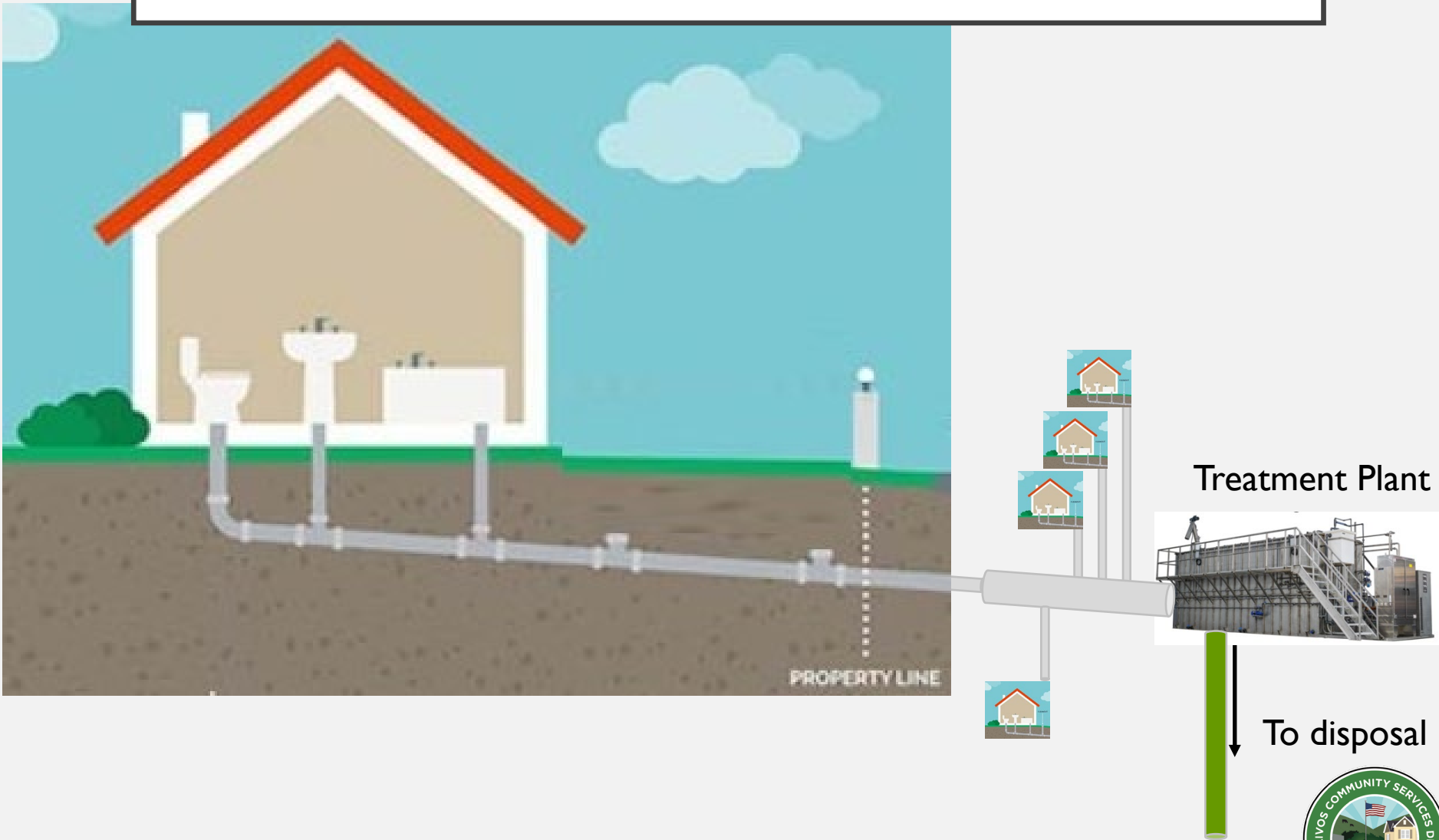


EFFLUENT COLLECTION

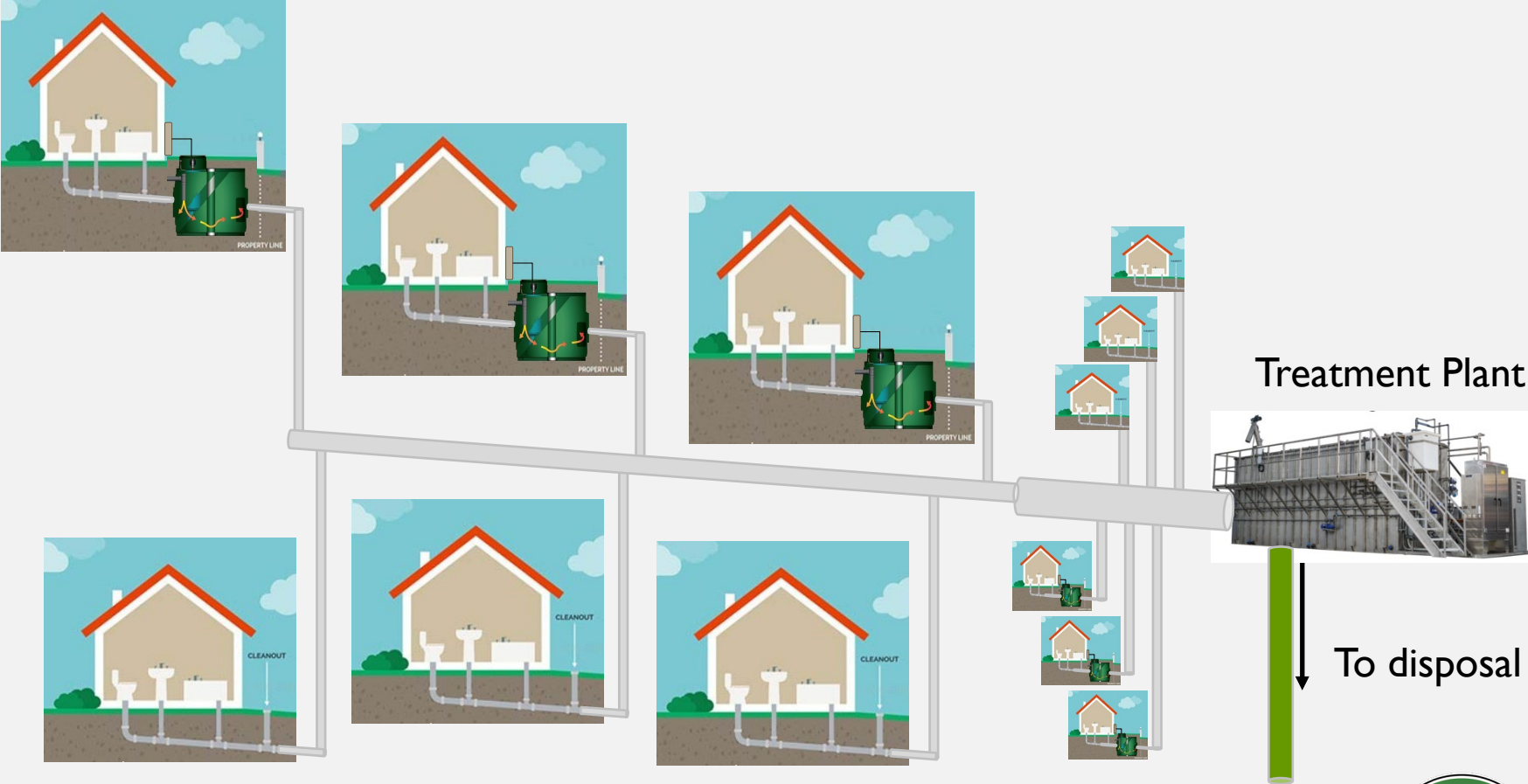


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GRAVITY FED COLLECTION



HYBRID COLLECTION



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IN DISTRICT COLLECTION COSTS

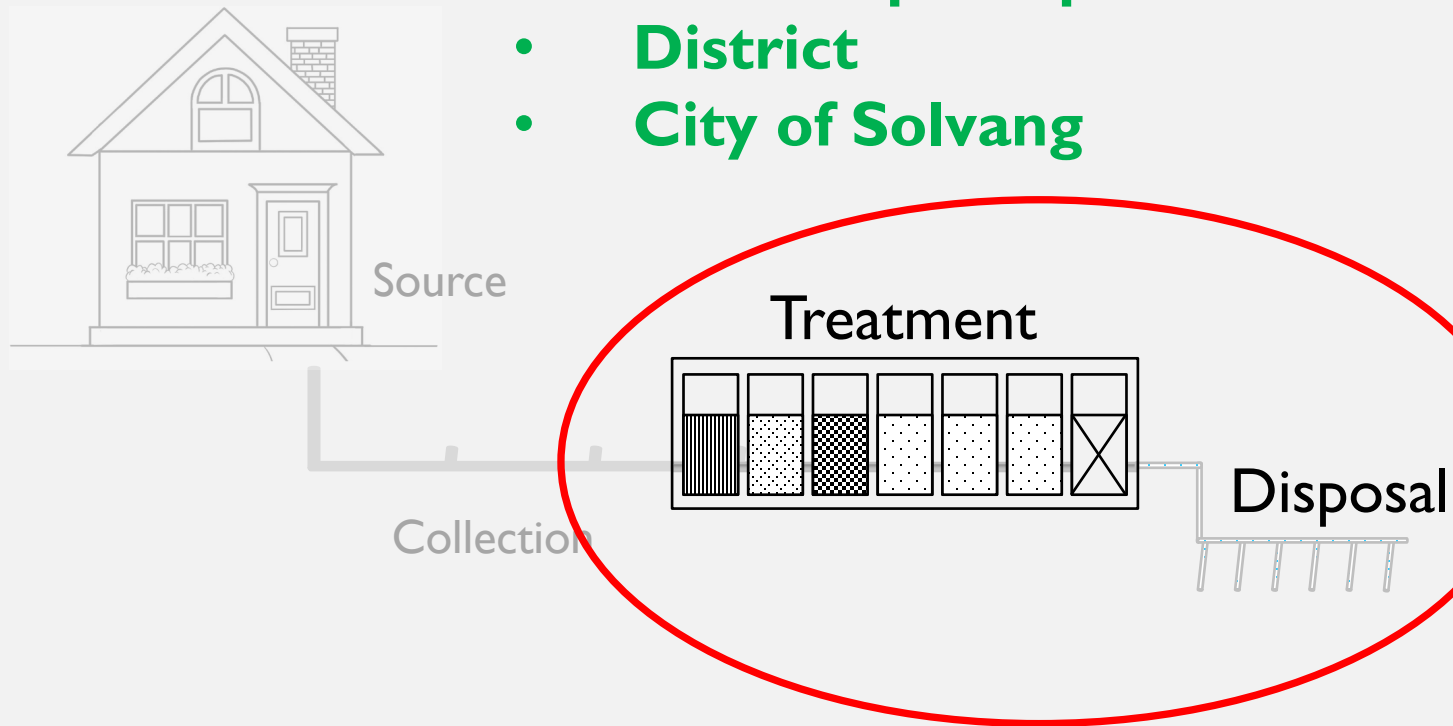
Approach	Total
Effluent Collection REGEN Option B - entire District	\$ 21,637,095
Hybrid Collection REGEN Option A - Commercial / nearby lots gravity	\$ 25,530,016
Gravity Collection South end of District treatment	\$ 27,938,000



TREATMENT AND DISPOSAL

Treatment / Disposal possibilities:

- **District**
- **City of Solvang**



IN DISTRICT TREATMENT AND DISPOSAL

Item	Estimate
Treatment – 1.5 acre site, Cloacina MBR plant, offices, parking, etc.	\$19,900,000
Disposal - 4 acre site, percolation chambers	\$ 5,200,000
Total	\$25,100,000



CAPITAL COSTS LOCAL OPTION

	Effluent Collection	Hybrid Collection	Gravity Fed Collection
Collection	\$ 21,637,095	\$ 25,530,016	\$ 27,938,000
Treatment	\$ 19,900,000	\$ 19,900,000	\$ 19,900,000
Disposal	\$ 5,200,000	\$ 5,200,000	\$ 5,200,000
Total	\$ 46,737,095	\$ 50,630,016	\$ 53,038,000



CITY OF SOLVANG TREATMENT AND DISPOSAL



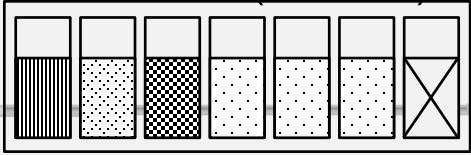
Source



District Boundary



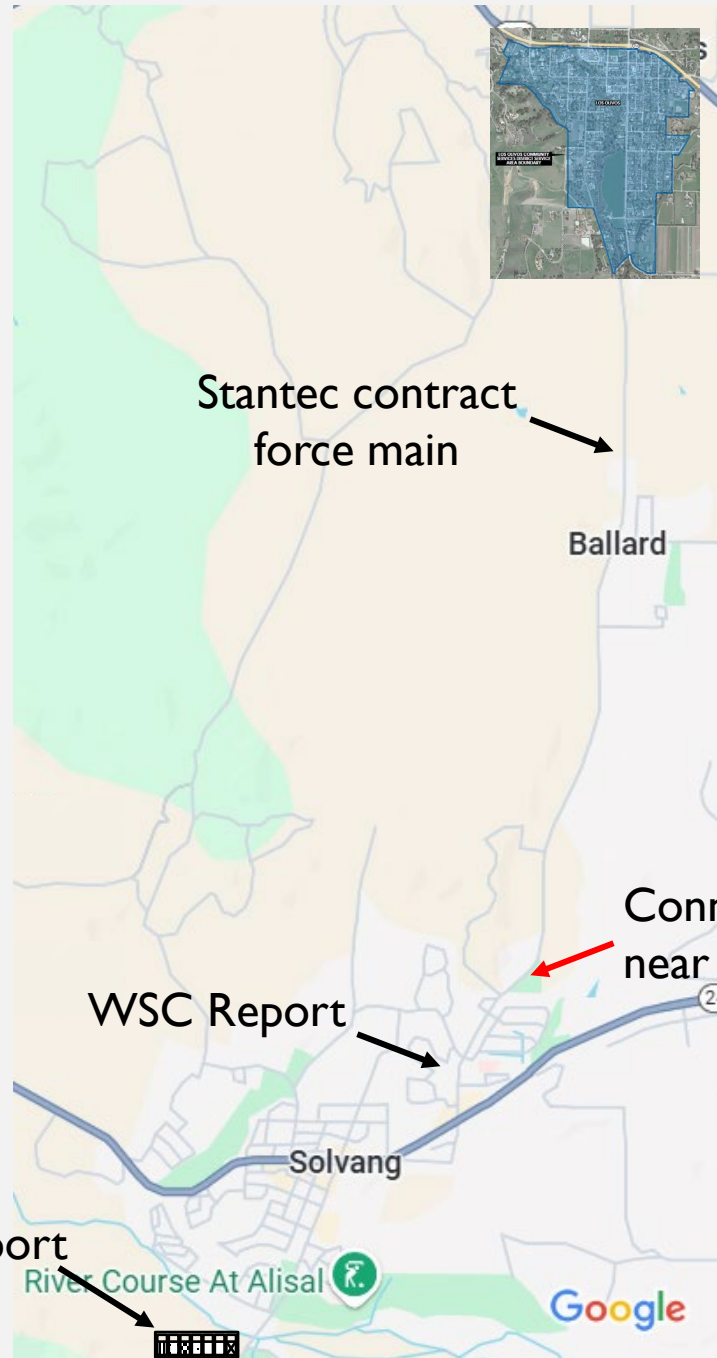
City of Solvang
Treatment (WWTP)



City of Solvang
Disposal



LOCSD TO CITY OF SOLVANG COLLECTION



POTENTIAL CONNECTION TO CITY OF SOLVANG INFRASTRUCTURE AND WWTP

- WSC and Carollo evaluated existing City of Solvang infrastructure and WWTP
- Examined engineering feasibility and related costs
- Just because something is feasible from an engineering perspective, does not mean the LOCSD has agreement with the City of Solvang



WSC - CONNECTION TO WWTP

- Examine existing infrastructure (pipes, lift stations, etc.) to determine capacity
 - Sunny Field Park to WWTP lift station
- Estimate costs where existing infrastructure insufficient
- Hydraulic modeling for dry and wet weather flows

CONNECTION TO WWTP

- WSC identified nine projects
 - Four projects related to sewer mains
 - Five projects related to sewer lift stations
 - Projects not all immediate, some targeted to start 2033
- LOCSD to have a share of \$3,548,630



CAROLLO CONTRACT FEASIBILITY AT WWTP

- Evaluate LOCSD loads and flows on City of Solvang WWTP
- Included look at source drinking water (IDI)

Source	Constituent	ADMMF Flow (gpd)	Avg. Influent Wastewater Concentration (mg/L)	WWTP Influent Load (lb/day)
City of Solvang Wastewater ⁽¹⁾	BOD ₅	713,000	263	2,018
	TSS		201	1,542
	TKN		59	453
LOCSD Phase III Wastewater ⁽²⁾	BOD ₅	133,800	416	451
	TSS		320	347
	TKN		63	68
SYCSD Wastewater ⁽³⁾	BOD ₅	300,000	320	658
	TSS		176	503
	TKN		63	148

Notes:

Abbreviations: gpd = gallons per day; lb/day = pounds per day; mg/L = milligrams per liter; avg = average

(1) WWTP average influent concentrations provided by City of Solvang.

(2) LOCSD estimated wastewater concentrations from 2022 Stantec BODR.

(3) SYCSD wastewater concentrations from 2017 Recycled Water Facilities Plan.



CITY OF SOLVANG WWTP

- City of Solvang WWTP is rated to treat 1.5 mgd of influent wastewater flow
- WWTP struggles to meet the effluent limits at current flows due to process limitations (Phase 2 project is intended to address)
- Highly unlikely that the WWTP in its current state would continue to meet permit limits with higher flows from LOCSD

Table 4 Solvang WWTP Effluent Concentrations

Constituent	WWTP Effluent Permit Limit (mg/L)	Modelled Effluent Concentration (mg/L)
BOD ₅ ⁽¹⁾	30	2.4
TSS ⁽¹⁾	20	4.2
TN ⁽²⁾	10	8.8

Notes:

Abbreviations: mg/L = milligrams per liter

(1) 30-day average effluent permit limit provided.

(2) 25-month rolling median effluent permit limit provided.

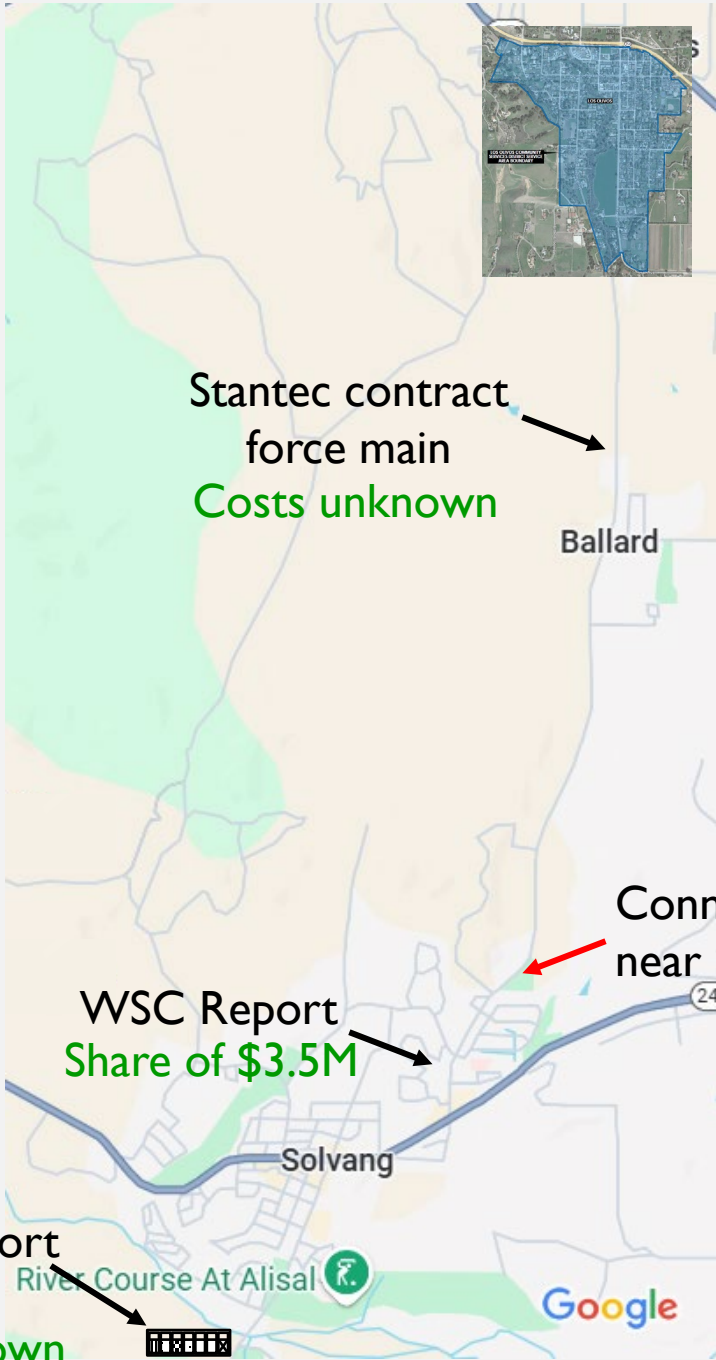
CONCLUSION: TECHNICALLY FEASIBLE

Post WWTP Phase 2 Upgrades:

- WWTP can effectively meet effluent permit limits while accepting full Phase 3 buildout ADMMF from LOCSD
- Addition of LOCSD wastewater will not affect the ability of the WWTP to meet its effluent permit limits, and the flow rate will not cause the WWTP to exceed its rated capacity
- Carollo does not foresee the background concentrations of TDS, sodium, or chloride in the LOCSD's drinking water (IDI) as negatively affecting the WWTP's ability to meet permit limits for these constituents
- Phase 2 Upgrades Project is currently entering the preliminary design phase and construction is anticipated to be completed in April 2028

SUMMARY:

**LOCSD TO
CITY OF
SOLVANG
COLLECTION**



In District collection
\$21.6-27.9M

Stantec contract
force main
Costs unknown

Ballard

WSC Report
Share of \$3.5M

Connect to City of Solvang
near Sunny Field Park

Carollo Report
Feasible
Costs unknown



WHAT'S NEXT?



Complete
construction cost
models

LOCSD-Sunny Field Park
force main



City of Solvang
discussions



Operations cost
models and
pros/cons



WHAT'S NEXT?

- Effluent, Gravity, or Hybrid?
- Local or City of Solvang?





QUESTIONS AND
ANSWERS?



THANK
YOU

Guy Savage
General Manager



PROPOSITION 218

THE RIGHT TO VOTE ON TAXES ACT

- Intent is to ensure that all taxes and most charges on property owners are subject to voter approval
- **Way** over simplified – Property owner protest vote based on calculated benefit

- District presentation on [August 14, 2024](#)

- For more details, visit:

https://lao.ca.gov/1996/120196_prop_218/understanding_prop218_1296.html





2023 EHS / CCRWQCB WORKSHOP



Residential Onsite Wastewater Treatment Systems (OWTS) – aka advanced onsite systems

- Capital / Construction = \$30,000 - \$70,000
 - Depending on site conditions and the components required, some estimates over \$100,000
- Annual Maintenance = \$1,505 - \$1,905 (\$125 - \$160/mo)
 - Permits, pumping, service contract, testing
 - Not including electrical/communication costs, or repairs to treatment system

Public water main setback for tanks = 25 feet



SANTA YNEZ CSD FACTS, FIGURES, AND INFO

- New connection - \$75,000-\$100,000
- Monthly - single family home (215 gpd) - \$86.87
- Agreement with the City of Solvang

<https://sycsd.specialdistrict.org/files/bae5dff28/CityofSolvangContract.pdf>

