

## **COLLECTION WORKSHOP**

WEDNESDAY, AUGUST 21, 2024



## WELCOME!

#### JULIE KENNEDY – PRESIDENT GUY SAVAGE – GENERAL MANAGER



## AGENDA AND GOALS FOR THIS EVENING

- Share Information About Potential Collection Solutions
- Answer Questions and Understand Issues
- Get Input from Property Owners
- Discuss Next Steps
- Input will be used by the Board to craft a specific solution or solutions that will ultimately go to a property owner vote for approval



## SAFETY MINUTE





## PUBLIC COMMENT

- Items on the agenda
- Items not on the agenda



#### JANUARY 2023 WHAT CONSIDERATIONS ARE MOST IMPORTANT TO YOU?

- Cost (capital / operations & maintenance)
- Location
- Ownership / maintenance responsibility
- Potential for growth inducement
- Treatment plant footprint / size
- Potential for odor
- Viewshed impacts
- Innovation (newer versus proven tech)



#### 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)





## NOT ON TONIGHT'S AGENDA

- Treatment
- Disposal
- Testing





## **GROUND RULES**



# TRISTIAN BOUNDS





### EFFLUENT COLLECTION



#### EFFLUENT SYSTEM COMPONENTS - DETAIL







Images for illustration purposes only, not to scale



## ZONES

Zone	Parcels	Equivalent Dwelling Units	Population Equivalent
		(EDU's)	(2.5/EDU)
1	149	249	623
2	58	58	145
3	46	46	115
4	43	43	108
5	26	26	65
6	74	74	185
Total	396	496	1240

EDU - Equivalent Dwelling Units





**OVERALL LEGEND** 







1 • 300-0

#### **OPTION A – GRAVITY AND EFFLUENT**





#### **OPTION B - EFFLUENT ONLY COLLECTION**





#### OPTION C – GRAVITY, EFFLUENT, AND ADVANCED ONSITE





#### OPTION D – EFFLUENT AND ADVANCED ONSITE





## EFFLUENT COLLECTION COSTS\*

Option	Collection System Subtotal	Advanced Onsite Subtotal	Total
A – Gravity / Effluent	\$25,530,016	\$0	\$25,530,016
B – Effluent Only	\$21,637,492	\$0	\$21,637,095
C – Hybrid (Gravity, Effluent, Advanced Onsite)	\$21,637,492	\$6,734,000	\$29,798,728
D – Effluent / Advanced Onsite	\$18,669,808	\$6,734,000	\$25,403,808

\*Includes costs for laterals from each parcel Does not include costs for treatment or disposal



## PROS / CONS – EFFLUENT COLLECTION VS GRAVITY

	Gravity		Effluent	
	Pro	Con	Pro	Con
Installation Costs		Higher capital costs range- \$27,938,000 to \$29,224,000	Lower capital costs range- \$21,637,095	
Parcel Impact	Septic tank removed/ demolished			Septic tank remains or replaced
Responsibility Tradeoff	No responsibility			Access annually to on lot components for pump cleaning (1 hr/year/lot)
Management Complexity		Vac truck line cleanings and more complex lift station maintenance	Simple annual on lot maintenance of components	
Construction Disruption		Deeper mains more disruptive	Shallower mains less disruptive	

# CARRIE POYTRESS





#### **GRAVITY FED COLLECTION**



#### GRAVITY FED COMPONENTS - DETAIL





Images for illustration purposes only, not to scale



## ZONES AND LAYOUT

Zone	Description	Lots
Ι	Downtown commercial lots with a few neighboring residential properties	77
2	Residential lots	50
3	Remaining lots	264



## **GRAVITY COLLECTION COSTS\***

	North Option	South Option
7		
Zone I	\$12,199,000	\$10,913,000
Zone 2	\$ 2,318,000	\$ 2,318,000
Zone 3	\$14,707,000	\$14,707,000
Total	\$29,224,000	\$27,938,000

\*Costs include costs for laterals from each parcel.

June 2022 costs escalated to July 2024 using CCI 7.21% increase



## PROS / CONS – GRAVITY VS EFFLUENT COLLECTION

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Parcel Impact	Septic tank removed/ demolished			Septic tank remains or replaced
Responsibility Tradeoff	No responsibility for treatment or disposal			Septic tank pumping every 3-5 years and sump pump maintenance
Management Complexity	More efficient O&M			More complex O&M due to individual pumps
Construction Disruption		Deeper mains more disruptive	Shallower mains less disruptive	

#### DISTRICT OWNERSHIP DISTRICT VIEW

PROS	CONS
Consistent design/construction per standard with good mapping and asset management	Title / deed easement and user agreements can be tricky and expensive, base agreement isn't for everyone
Consistent maintenance of systems – could be done with annual review	Property access requires coordination and is time consuming (animals, kids, renters, nobody home)
User agreements generally providing adequate and clear authority	Instances of customers burying tank lids, building decks over lids and access
One point of contact for customers to address problems (alarms, etc.) – not reliant on contractors who may not have experience with equipment	Customer contractors and vendors have caused problems – digging through service pipes, turning off dedicated breaker, dumping paint and other materials into system
Periodic inspections can provide early identification of problems	Emergency callouts are taxing for District staff and incur overtime costs, prevailing wage for contractors
District prepared to respond to spills – cleanup, reporting, etc.	Actual maintenance requirements exceed what was expected based on vendor representations
District staff trained on use of systems, maintenance, regular failure scenarios	Budgeting for replacements can be uncertain and costs fluctuate each year
Clear delineation of responsibility	Non-owner occupied properties can result in uninformed users or unintentional misuse
	Equipment is liability for District, added liability for some failures (restaurants, businesses), results in higher costs



### FACILITATED Q&A

FACILITATOR GEOFF GREEN

# PUT YOUR QUESTIONS ON A CARD AND HAND IT IN





# CLOSING

#### JULIE KENNEDY – PRESIDENT GUY SAVAGE – GENERAL MANAGER





Presentation of findings, discussion, search for funding



## COMMENT CARDS LEAVE ON BACK TABLE

C	uestions I still have:



## WANT MORE???

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





#### ADVANCED ON-SITE SYSTEM (EVERYTHING ON-SITE)



