	Costs									
84	Capital				Ol	Operations & Maintenance (O&M) - ann				Approval by EHS / RWQCB
372					Indivi	Individual Parcel Community		ınity	Total	EH3 / KWQCB
Collection										
Gravity Fed	\$	27,938,000			\$	-	\$	80,352	\$ 80,352	Yes
Effluent - option b (inc. \$6,685,000 in tanks)	\$	21,637,095			\$	118	\$	60,264	\$ 104,011	Yes
Hybrid (Gravity-downtown&small, effluent) - option a	\$	25,530,016			\$	118	\$	69,304	\$ 106,230	Yes
Data Points (30 year, 5% loan, annual prop tax payment)	Total Capital Co	st / Parcel		nual						
Gravity Fed (all parcels same)	\$	75,102		4,886						
Effluent - option b (all parcels same)	\$	58,164	\$	3,784						
Hybrid (Gravity-downtown&small, effluent) - option a (all parcels s	\$	68,629	\$	4,464						
Treatment										
Local - MBR	\$	19,900,000			\$	1,075	\$300,000-4	100 000		Yes
City of Solvang connection (includes Disposal)	\$	9,976,000			\$	826	\$300,000-4	100,000		Yes
City of Solvarig conflection (includes Disposar)	<b>3</b>	9,976,000			Ş	020				res
Data Points (30 year, 5% loan, annual prop tax payment)	Total Capital Co	et	Δn	nual	Mon	thly				
Local - MBR (all parcels same)	\$	53,495	\$	3,480	\$	89.61				
City of Solvang connection (all parcels same)	\$	26,817	\$	1,744	\$	68.87				
city of solvaing connection (all parcets same)		20,017	7	1,777	7	00.07				
SY CSD Totals	Connect charge				Mon	thly				
Single Family	\$75,000-100,00				Ś	86.87				
Single Family add unit	773,000 100,00	Ü			Ś	64.65				
Hotel per room no kitchen	l				\$	40.41				
Restaurant	l				\$	426.67				
Wine taste no food	l				\$	109.10				
Elementary school per student					Ś	2.61				
I										
Advanced On-site	\$30,000-70,000				\$1,50	00-\$1,900				Yes*
Effluent Disposal										
Percolation Ponds	\$	2,200,000					minimal			Yes
Percolation Chambers	\$	5,200,000					minimal			Yes
							\$3,000,000	)_		
Shallow Aquifer Injection Wells	\$	1,400,000					4,000,000			Yes
<< reuse >> as additive to one of the above	Site specific						unknown			Yes

			Disru	ption		
Grant Potential	Risks	Constr	uction	On-G	Going	Notes
		Community	Individual Parcel	Community	Individual Parcel	
					., .	
Yes		Medium	Lower	Low	Very Low	Additional O&M costs assuming District owns and
Less likely if owned by property owner						maintains tanks and pumps on individual parcels,
(except lower income)		Low	Higher	Low	High	does not include on-site electrical costs
Less likely if owned by property owner		N. A. a. d	Nandina		A subjective	
(except lower income)		Medium	Medium	Low	Medium	
						\$125,000 estimate from Cloacina partner for
						equipment consumables, spare parts, replacement, power, labor, chemicals; O&M
						number includes all costs including disposal, waste
Yes		Medium	None	Low	None	hauling
Yes		Medium	None	Low	None	
						_
Loss likely if award by a second						
Less likely if owned by property owner (except lower income)		Very Low	High	Very Low	High	
()		very Low	THE!	VCI y LOVV	11/611	J
		Low	Low	Low	Low	1.5 acres, with 100% redundancy
		Low	Low	Low	Low	4 acres, including 100% redundancy
		Low	Low	Low	Low	Assumes 3 injection wells, \$300k/well
Yes						

DRAFT WORKING DOCUMENT

Cost Component (per parcel, ar	nnual)		Gravity,	MBR, Perc	Efflu	uent, MBR, Perc	Gravit	y, Solvang	Efflue	nt, 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	\$	279.60			\$	279.60			\$	279.60
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	\$	1,744.50					\$	1,744.50	\$	1,744.50
Solvang O&M	\$	826.44					\$	826.44	\$	826.44
Perc Capital	\$	909.32	\$	909.32	\$	909.32				
Perc O&M	\$	-	\$	-	\$	-				
	TOTAL		\$	10,565.99	\$	9,527.76	\$	7,672.44	\$	6,634.20

Notes: All parcels treated the same All capital assume 5% loan, 30 year DRAFT WORKING DOCUMENT

	Existing Flows		20-Year Buildo	ut Design Flows	ADUs		20-Year Buildout 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

	Existi	ng Flows	20-Year Buildout 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	
Tota	96,408	308.506	120.335	385,072	

DRAFT WORKING DOCUMENT

		Needed for Capital calcs /		Needed for O&M calcs /		
Category	Subcategory	info	Responsible	info	Responsible	Risk
Collection						Spill
	Gravity Fed Effluent			yes yes	Savage Savage	
	Ownership			yes	Javage	
	If District ownership	Parcel owner's cost				
		Pros/cons of ownership				
		Impacts of improper installati				
		Breakdown of responsibilities Easements	depending on ownership			
		Easements				
	Middle miles (LOCSD to Sunny Field)	yes	Stantec	yes	Savage	
	Middle miles (LOCSD to Dunn)	yes	Use Stantec report to calc	yes	Savage	
Treatment						Spill
	Solvang  Contract with City of Solvang	Buy-in cost (line upgrades?)	Savage	yes	Savage	
	Solvang - Shared infrastructure	Pay line upgrades?	Savage	yes	Savage	
	Local - Location (siting)	,		,		
	Local - If phased downtown only	yes	Savage / Clocina	yes	Savage / Clocina	
	Local - Dunn	yes	Savage			
	Local - Available sites for treatment facility Local - Availablity of qualified operators (certifications)					
	Local - What happens to Mattei's existing system					
Status Quo	Estat What happens to Matter's existing system					
	Risks, impacts, etc.					Letter re:consequences CCRWQCB
Advanced Onsite	Con the conflict December 15 Days 240 fetts					
	Can it be a Plan B approach if Prop 218 fails Is it viable from a CCRWQCB perspective					
	Is it truly an option for "all" parcels					
	, , , , , , , , , , , , , , , , , , , ,					
Grants						
	Which system(s) have a higher likelihood of obtaining grants (o	or more grants)				
	Phased in district Connect to Solvang					
	Connect to Solvang					
Disposal						
	Solvang included in Treatment discussion					
	Available sites for Disposal					
Permits						
Permits	Discharge permit			yes	Savage	Spill risk collection and transmission
				,		Acquistion of property
						Transfer of risk (for example from LOCSD to City of Solvang)
Others	Nord to call account to the desired account.					
	Need to poll community on desired approach Assessment Engineer Report					
	Rate Study					