



Preliminary Planning Report Scope and Purpose of Study

- Identify targeted areas where UCNSB wastewater collection system can be extended to serve on-site septic systems
- Quantify unsewered properties
- Establish methodology for prioritizing projects
- Select areas for final planning and funding
- Prepare report detailing findings
- Public outreach

Ranking Priority Analysis Criteria

- Septic Density
- Population Density
- Average Household Size
- Mean Year Built
- Mean Distance to Water
- Mean Surface Elevation
- Mean Hydraulic Conductance
- Proximity to Existing Infrastructure
- Cost Effectiveness

Planning Areas

- 1. Aqua Golf
- 9. Glencoe 1

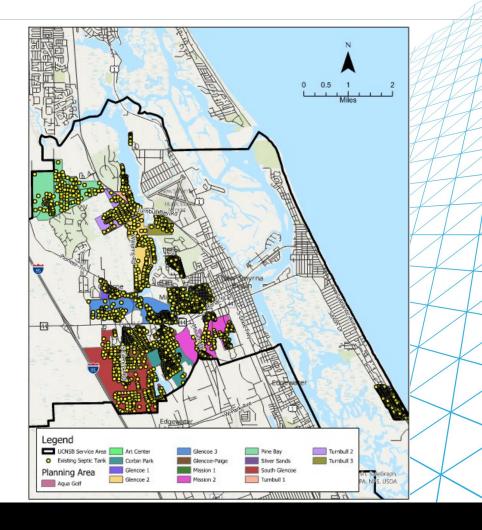
10. Mission 2

11. Turnbull 3

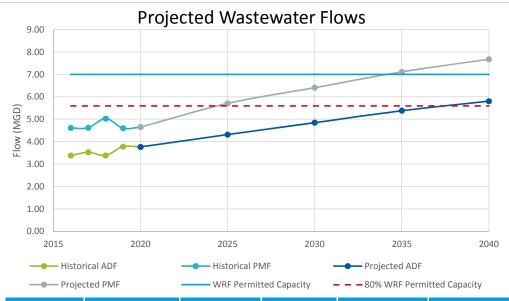
- 2. Silver Sands
- 3. Glencoe-Paige
- 4. Mission 1
- 5. Turnbull 1
- 6. Corbin Park
- 7. Art Center
- 8. Glencoe 3

- 12. Turnbull 2 13. Glencoe 2
- 14. Pine Bay
 - 15. South Glencoe

Approximately 2,682 on-site septic systems were identified within the City and Utilities Commission Planning areas



Projected Wastewater Flows



Year	Estimated Population ¹	Estimated Future ERU's ²	No. of ERU's on Sewer ³	Projected Average Daily Flow (MGD) ⁴	Projected Peak Month Flow (MGD)
2025	63,912	27,788	26,274	4.32	5.71
2030	71,371	31,031	29,517	4.85	6.41
2035	78,829	34,273	32,759	5.38	7.11
2040	84,796	36,868	35,354	5.81	7.68

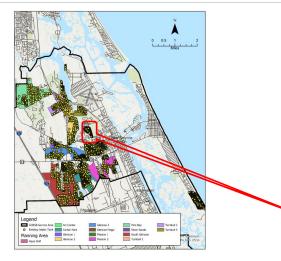
¹Information obtained from the UCNSB CUP permit Application 8747, Section E2 and Section 2 Population and Per Capita Use Planning Projections Table

²1 ERU = 2.3 people

³Assumes no additional septic tanks allowed within the service area

⁴Average daily flow of 164 gpd/ERU

Aqua Golf



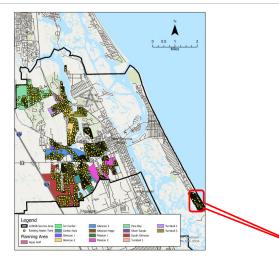
Municipal Status - City



ANNEAN IV	
Planning Unit Name	Aqua Golf
Area (acres)	49.63
Associated WBIDs	2678
% Impaired	100
TMDL/RAP	N/A
Total Parcels	138
Total Septic Tanks	130
Total Vacant Parcels	3
Total Population ¹	216
Total Households ¹	120
Total Vacant Housing Units ¹	10
¹ Data obtained using Census Block data an	portioned to the

¹Data obtained using Census Block data apportioned to the planning unit by parcels.

Silver Sands

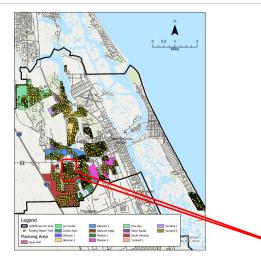


Municipal Status - Unincorporated

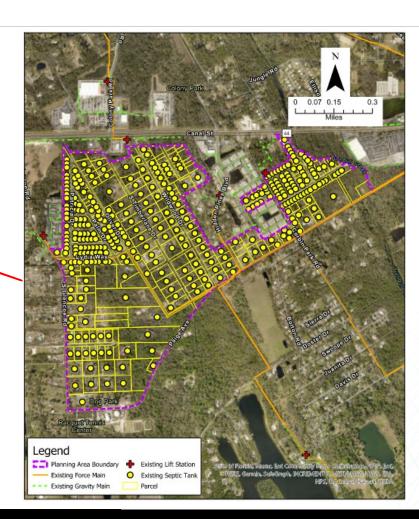


	ANVETIN	7
Planning Unit Name	Silver Sands	l
Area (acres)	167.86	
Associated WBIDs	2924B2	1
% Impaired	100	/
TMDL/RAP	Mosquito Lagoon RAP	-
Total Parcels	526	1
Total Septic Tanks	471	-
Total Vacant Parcels	54	1
Total Population ¹	881	
Total Households ¹	390	1
Total Vacant Housing Units ¹	333	
¹ Data obtained using Census Block data apportioned to the planning unit by		
parcels.		

Glencoe-Paige



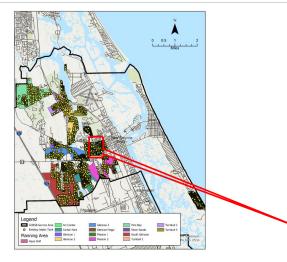
Municipal Status - Combined



	1/1/1/1/1/1/1/	1/
Planning Unit Name	Glencoe-Paige	-
Area (acres)	389.15	\leq
Associated WBIDs	2678	/
% Impaired	100	-
TMDL/RAP	N/A	/
Total Parcels	406	-
Total Septic Tanks	340	1
Total Vacant Parcels	65	
Total Population ¹	1046	1
Total Households ¹	420	
Total Vacant Housing Units ¹	42	K
1Data obtained using Consus Plack dat	apportioned to the planning unit by	1

¹Data obtained using Census Block data apportioned to the planning unit by parcels.

Mission 1



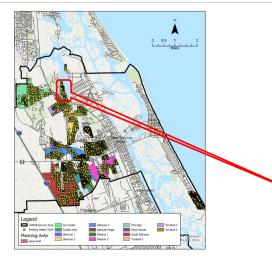
Municipal Status - Combined



	ANVENNIVET	//
Planning Unit Name	Mission 1	1
Area (acres)	316.67	1
Associated WBIDs	2678, 2924B2	+
% Impaired	100	V
TMDL/RAP	Mosquito Lagoon RAP	
Total Parcels	536	/
Total Septic Tanks	416	
Total Vacant Parcels	115	/
Total Population ¹	1366	-
Total Households ¹	489	/
Total Vacant Housing Units ¹	34	

¹Data obtained using Census Block data apportioned to the planning unit by parcels.

Turnbull 1



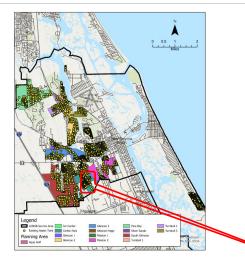
Municipal Status - Combined



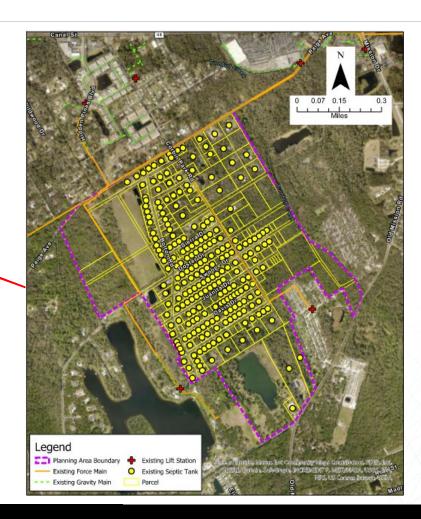
	ANCANTATIVAT
Planning Unit Name	Turnbull 1
Area (acres)	102.42
Associated WBIDs	2678
% Impaired	100
TMDL/RAP	N/A
Total Parcels	77
Total Septic Tanks	57
Total Vacant Parcels	19 ;
Total Population ¹	149
Total Households ¹	66
Total Vacant Housing U	nits ¹ 8

¹Data obtained using Census Block data apportioned to the planning unit by parcels.

Corbin Park



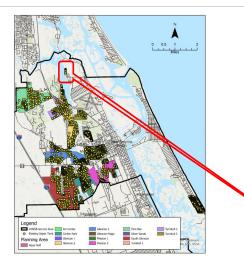
Municipal Status - Combined



		L
Planning Unit Name	Corbin Park 7	K
Area (acres)	375.31	/
Associated WBIDs	2678	/
% Impaired	100	-
TMDL/RAP	N/A	
Total Parcels	306	/
Total Septic Tanks	234	
Total Vacant Parcels	72	/
Total Population ¹	389	
Total Households ¹	162	7
Total Vacant Housing Units ¹	44	1

¹Data obtained using Census Block data apportioned to the planning unit by parcels.

Art Center

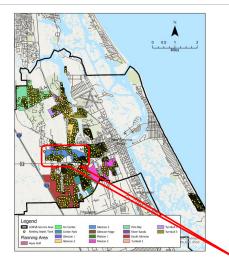


Municipal Status - City



	ANTANKA/VY	
Planning Unit Name	Art Center	
Area (acres)	11.24	
Associated WBIDs	2678	
% Impaired	100	
TMDL/RAP	N/A	
Total Parcels	12	
Total Septic Tanks	10	
Total Vacant Parcels	2	
Total Population ¹	12	
Total Households ¹	5	
Total Vacant Housing L	Inits ¹ 1	
¹ Data obtained using Census Block data apportioned to the planning unit by parcels.		

Glencoe 3



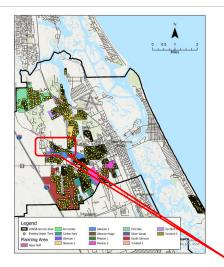
Municipal Status - Combined



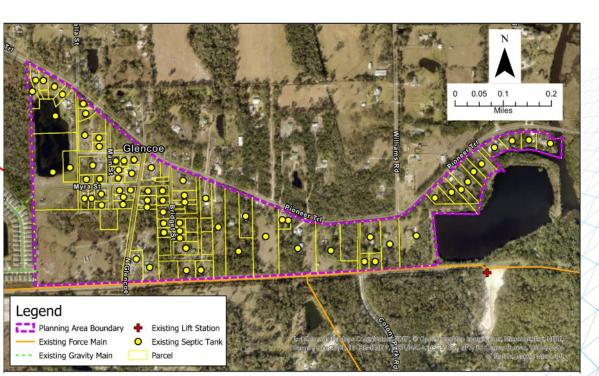
MRAT/RA	7/1/24/1/1	
Planning Unit Name	Glencoe 3	
Area (acres)	554.51	
Associated WBIDs	2678	
% Impaired	100	
TMDL/RAP	N/A	
Total Parcels	272	
Total Septic Tanks	233	
Total Vacant Parcels	38	
Total Population ¹	369	
Total Households ¹	148	
Total Vacant Housing	25	
Units ¹		
Data obtained using Census Block data apportioned to the		

planning unit by parcels.

Glencoe 1



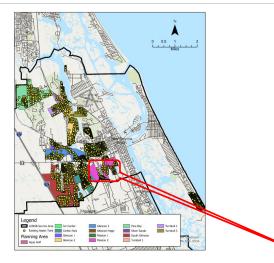
Municipal Status - Combined



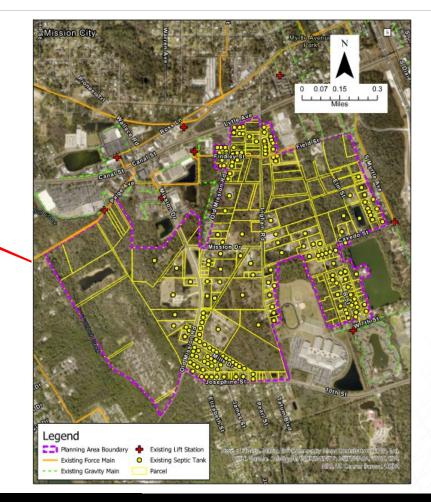
	AIVAIVA
Planning Unit Name	Glencoe 1
Area (acres)	126.82
Associated WBIDs	2678, 2681
% Impaired	100
TMDL/RAP	N/A
Total Parcels	93
Total Septic Tanks	74
Total Vacant Parcels	19
Total Population ¹	131
Total Households ¹	53
Total Vacant Housing	9
Units ¹	

¹Data obtained using Census Block data apportioned to the planning unit by parcels

Mission 2



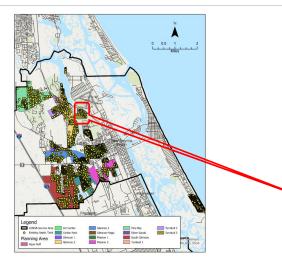
Municipal Status - Combined



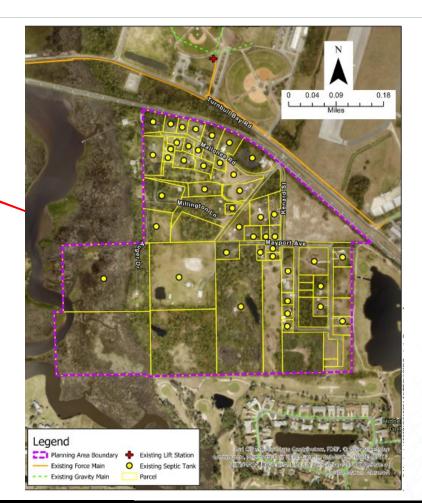
	ANDANIVANII EN
Planning Unit Name	Mission 2
Area (acres)	509.32
Associated WBIDs	2678, 2924B2
% Impaired	100
TMDL/RAP	N/A
Total Parcels	279
Total Septic Tanks	174
Total Vacant Parcels	96
Total Population ¹	531
Total Households ¹	292
Total Vacant Housing Units ¹	52

¹Data obtained using Census Block data apportioned to the planning unit by parcels.

Turnbull 3



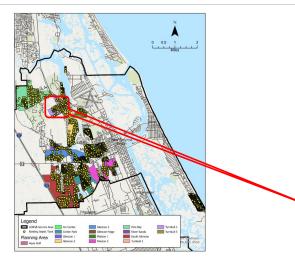
Municipal Status - Combined



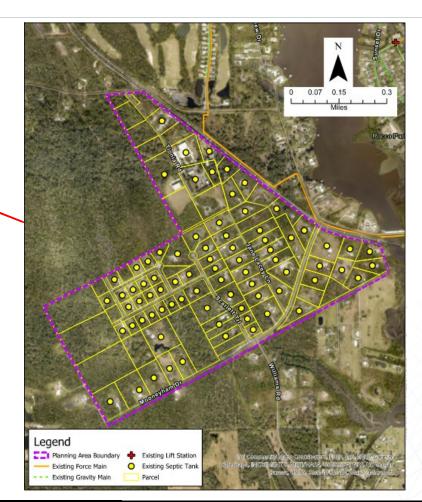
	ANANIANIA,
Planning Unit Name	Turnbull 3
Area (acres)	132.59
Associated WBIDs	2678, 2924B2
% Impaired	100
TMDL/RAP	Mosquito Lagoon RAP
Total Parcels	67
Total Septic Tanks	44
Total Vacant Parcels	22
Total Population ¹	95
Total Households ¹	53
Total Vacant Housing Units ¹	5

¹Data obtained using Census Block data apportioned to the planning unit by parcels.

Turnbull 2



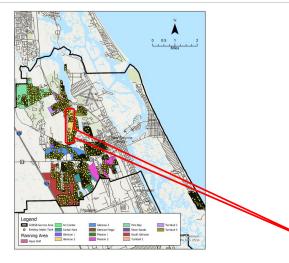
Municipal Status - Combined



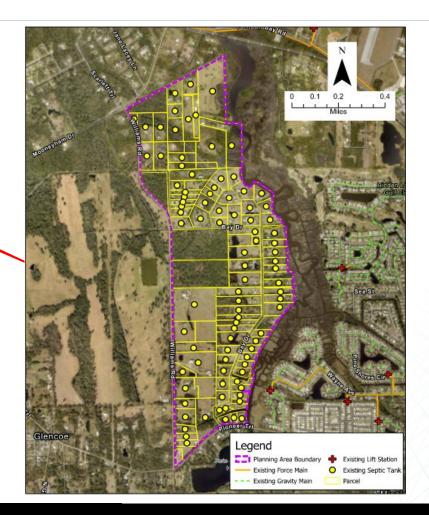
	ALAN ANI A	/ //
Planning Unit Name	Turnbull 2	1
Area (acres)	305.52	K
Associated WBIDs	2678, 2681	K
% Impaired	100	/
TMDL/RAP	N/A	7
Total Parcels	101	í
Total Septic Tanks	78	/
Total Vacant Parcels	22	
Total Population ¹	145	
Total Households ¹	60	
Total Vacant Housing Units ¹	22	1
¹ Data obtained using Census Block d	ata apportioned to the planning unit	

¹Data obtained using Census Block data apportioned to the planning unit by parcels.

Glencoe 2



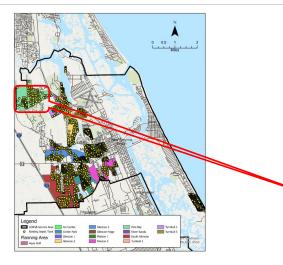
Municipal Status - Combined



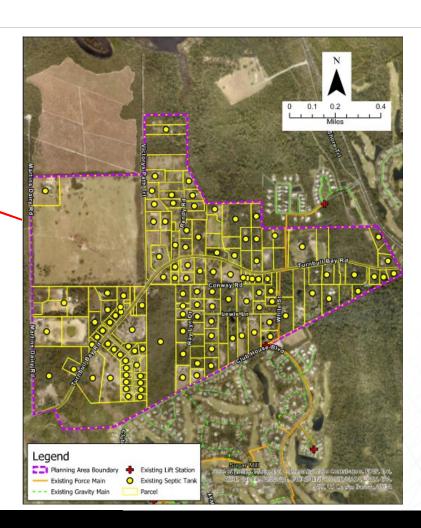
	LANLANVAN/I	/_
Planning Unit Name	Glencoe 2	1
Area (acres)	420.80	7
Associated WBIDs	2678, 2681	1
% Impaired	100	1
TMDL/RAP	N/A	1
Total Parcels	109	\lor
Total Septic Tanks	93	
Total Vacant Parcels	16	\leq
Total Population ¹	145	/
Total Households ¹	61	/
Total Vacant Housing	22	-
Units ¹		/
¹ Data obtained using Census Block	k data apportioned to the planning	

¹Data obtained using Census Block data apportioned to the planning unit by parcels.

Pine Bay

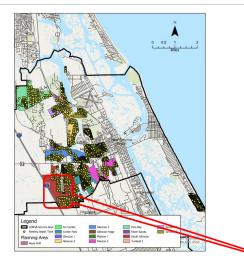


Municipal Status - Combined

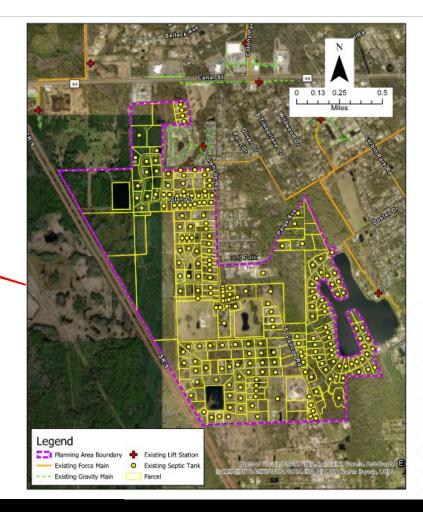


	TAVETAIN
Planning Unit Name	Pine Bay
Area (acres)	781.90
Associated WBIDs	2681, 2679, 2674A
% Impaired	68.2
TMDL/RAP	Spruce Creek TMDL
Total Parcels	159
Total Septic Tanks	116
Total Vacant Parcels	43
Total Population ¹	223
Total Households ¹	93
Total Vacant Housing Units ¹	34
¹ Data obtained using Census Block da parcels.	ta apportioned to the planning unit by

South Glencoe

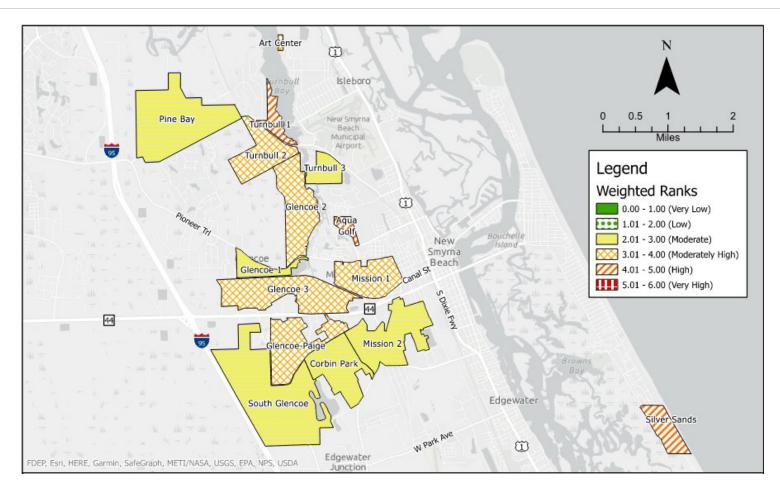


Municipal Status - Combined



	HAND HANVE
Planning Unit Name	South Glencoe
Area (acres)	1046.51
Associated WBIDs	2678
% Impaired	100
TMDL/RAP	N/A
Total Parcels	274
Total Septic Tanks	212
Total Vacant Parcels	60
Total Population ¹	765
Total Households ¹	309
Total Vacant Housing	39
Units ¹	
¹ Data obtained using Census Block unit by parcels.	data apportioned to the planning

Pollution Potential



Overall Scoring

			AAA	ANA	
Planning Area	Pollution Reduction Potential	Proximity to Existing Infrastructure	Cost Effectiveness	Overall Score	
Aqua Golf	5	5	5	15	HAA/
Silver Sands	5	5	5	15	
Glencoe-Paige	4	4	4	12	XXX /
Mission 1	4	4	4	12	
Turnbull 1	5	5	2	12	f
Corbin Park	3	5	3	11	
Art Center	4	3	4	11	
Glencoe 3	3	4	3	10	
Glencoe 1	3	4	3	10	
Mission 2	3	4	2	9	
Turnbull 3	3	4	2	9	
Turnbull 2	3	3	2	8	K//
Glencoe 2	3	2	2	7	
Pine Bay	2	3	1	6	
South Glencoe	2	1		4	

Planning Area Rankings (Highest to Lowest)

				VANAN/K	TVA
Planning Area	Overall Score	Tier	Municipal Status ¹	No. of Parcels	HAR A
Aqua Golf	15	Tier 1	City	138	TH
Silver Sands	15	Tier 1	Unincorporated	526	
Glencoe-Paige	12	Tier 2	Combined	406	XX/
Mission 1	12	Tier 2	Combined	536	KKK
Turnbull 1	12	Tier 2	Combined	77	
Corbin Park	11	Tier 2	Combined	306	$\Lambda\Lambda$
Art Center	11	Tier 2	City	12	
Glencoe 3	10	Tier 2	Combined	272	$\overline{}$
Glencoe 1	10	Tier 2	Combined	93	KV
Mission 2	9	Tier 3	Combined	279	$1 \wedge 1$
Turnbull 3	9	Tier 3	Combined	67	
Turnbull 2	8	Tier 3	Combined	101	
Glencoe 2	7	Tier 3	Combined	109	
Pine Bay	6	Tier 3	Combined	159	
South Glencoe	4	Tier 3	Combined	274	\times
¹ City = planning area compl	etely within New Smyrna E	Beach limits	$ \Lambda $	\times	

Conceptual Costs for Tier 1 Projects

Aqua Golf Conceptual Construction Cost \$2M-3M \$14,500 – \$21,800 per parcel



Silver Sands Conceptual Construction Cost \$6.5M-7.5M \$12,400 – \$14,300 per parcel



Potential Funding Sources

- Section 319(h)
- State Water-Quality Assistance Grant (SWAG)
- St. Johns River Management District (SJRWMD)
- State Revolving Fund (SRF)
- Florida State Legislature
- Florida Department of Environmental Protection (FDEP)
- America Rescue Plan Act (ARPA)

Next Steps

- SRF Facility Plan and Funding Activities
 - Federal and State Funding require an approved Facility Plan
 - Shovel ready projects typically receive priority for funding
- Site and Route Surveys
- Design and Related Activities
- Permitting
- Public Participation
- Bidding
- Construction

