## COUNTY ROADS & BRIDGE FACILITIES

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Collier County 2021 Annual Update and Inventory Report on Public Facilities

#### 2021 AUIR FACILITY SUMMARY

 Facility Type:
 County Arterial and Collector Roads (Category A)

 Level of Service Standard:
 Variable - "D" or "E"

 Unit Cost:
 Variable (Average = \$6,005,000/ lane mile) Per Current Approved Transportation Impact Fee

Recommended Work Program FY 22-26	\$571,155,000
Recommended Revenues FY22-26	\$571,155,000
Five-Year Surplus or (Deficit)	\$0

#### 1. Existing Revenue Sources:

A. Current Revenues CIE FY 22-26		
Sales Tax		\$140,525,000
Gas Taxes		\$117,000,000
Impact Fees / COA		\$78,000,000
General Fund 001/111		\$59,085,000
Grants/Reimbursements/DCAs/Interest		\$40,199,000
Unfunded Needs		\$87,731,000
	SUB TOTAL	\$522,540,000
Carry Forward		\$58,617,000 *
Less 5% Required by Law		(\$10,002,000)
	TOTAL	\$571,155,000

#### 2. <u>Supplemental Revenue Sources:</u>

- A. Alternative I None Required
- B. Alternative II None Required

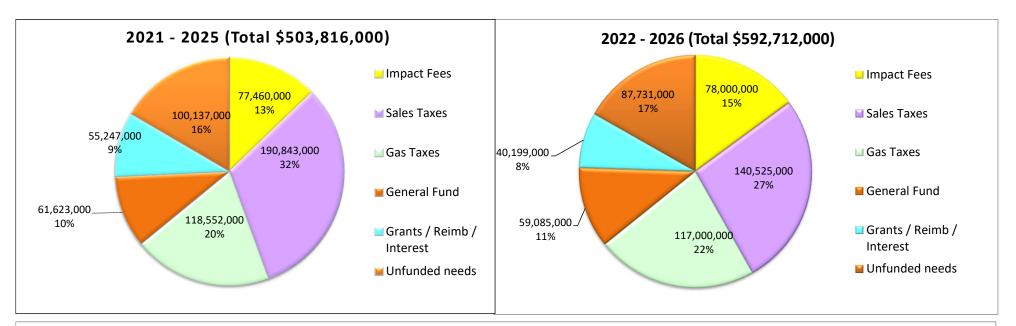
#### Recommended Action:

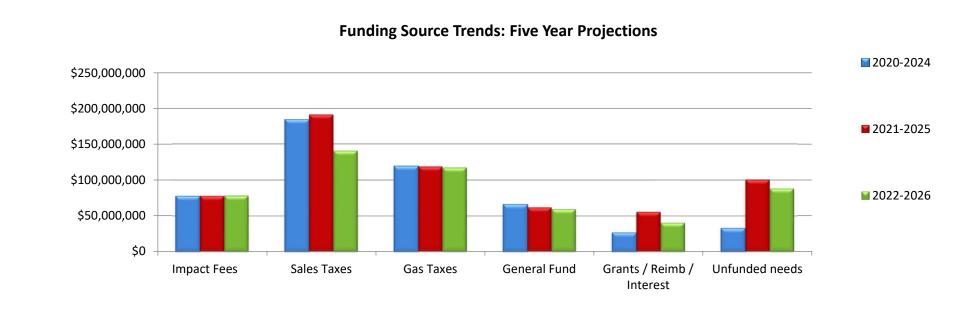
That the BCC direct the County Manager or his designee to include County road projects appearing on "Proposed Transportation Five-Year Work Program," (Attachment D), as detailed in the "Collier County Transportation Planning Database" (Attachment F), in the next Annual CIE Update and Amendment with the application of revenues outlined on the Road Financing Plan (Attachment E) to establish statutorily required financial feasibility of the CIE.

\* Carry Forward includes the budgeted FY22 Carry forward and does not include project funding encumbered in prior fiscal years. The actual Carry Forward number that includes the roll of encumbrances is not available until after October 1, 2021. Attachment J provides a snapshot of prior year FY21 project activity as of June 30, 2021 for continuing projects. Project costs are generally paid out over the following schedule for phases (average time for payout):

•		5 YEA	R PROJECT DURATION	N AFTER 2 YEAR PLA	NNING CYCLE IS COI	MPLETE
1	Design - 25 months	1	2	3	4	5
1.	Design - 25 monuis	DI	ESIGN			
2	Right-of-Way - 4 years					
2.	0 , ,			RIGHT-	OF-WAY	
3.	Construction - 30-36 months				CONSTRUCTION	

Note: FY 2021 Revenues based on current adopted Impact Fee Schedule, projected gas tax revenues, budgeted general fund transfer, and approved grants and developer contribution agreements. Expenditures are based on current unit cost.





#### **TRANSPORTATION EXISTING CONDITIONS REPORT – 2021**

#### **Objective**

To provide the Board of County Commissioners with an "existing conditions" analysis of the transportation system in Collier County.

#### <u>Purpose</u>

This analysis is provided to assist in the preparation of the Annual Update and Inventory Report (AUIR), and more specifically to assist in the determination of adequate (transportation) public facilities and to guide budgeting and project programming in the CIE.

#### **Considerations:**

- The traffic counts are collected on an annual, seasonal, or quarterly basis, and are factored as needed to determine a peak hour peak directional volume. The factors used include a directional factor and a seasonal factor that varies depending on the week that the traffic count was conducted.
- The Level of Service (LOS) threshold volumes are calculated using ARTPLAN and HIGHPLAN software. Measured volume is based on the 250<sup>th</sup> highest hour, which essentially equates to the 100<sup>th</sup> highest hour after omitting February and March data, consistent with the Growth Management Plan and Land Development Code provisions. The remaining capacity is based on the difference between the LOS threshold volume and the calculated existing plus trip bank volume.
- The LOS for each roadway segment is identified in Attachment "F" for the current year. Additionally, traffic volumes are forecasted for future years which yields an estimated "Year Expected Deficient" that is used in the planning and programming of future improvements. The Existing LOS and the forecasted LOS are expressions of operating conditions during the peak hours of the peak seasonal day, which corresponds to the same time period as the adopted minimum acceptable LOS Standards in the Growth Management Plan. While the adopted LOS standard and evaluated condition must be expressed for the peak period, it is important to recognize that the roadway's LOS will be better during most other portions of the day, and especially during non-peak season periods.
- The AUIR deals with system capacity and maintaining the established LOS through our Concurrency Management System. As the system expands, there is a growing need to focus our attention on the condition of existing facilities and the demand for Operations and Maintenance (O&M) funding. Our bridges and culverts are approaching or are at their 50-year life-cycle. Over 250 additional lane miles of urban and rural, arterial, and local roads have been added to the county system for maintenance since 2000. Historical funding for O&M has not addressed industry standards for anticipated life-cycles which are 6 to 8 years for urban roadways and 12 to 15 years for rural roadways. Gas taxes are already at the maximum allowed by statute. Complicating this issue is the reliance on impact fees as directed by our "growth pays for growth" policy which can only be used to add additional capacity or new lane miles to the system. The prior aggressive program to add capacity allowed existing system mileage to be rebuilt and the mileage to be maintained throughout the construction cycle by the contractor. Volatile impact fee rates and revenues alone cannot sustain a multi-year capital program that provides improvements concurrent with the impacts of development. Capacity expansion projects require a multi-year funding plan to meet the 7-year construction cycle that includes: planning, design, ROW acquisition, permitting and construction. LOS standards already set at the lowest acceptable levels of "D" or "E".

#### **Observations**

Of the 129 stations (covering 142 unique AUIR Segment ID's) collecting traffic counts in the 2020/2021 program for the 2021 AUIR, the average change in measured overall volume between the 2020 AUIR and the 2021 AUIR was -2.85% system-wide, reflecting the significant impact the pandemic had on travel during 2020 and 2021. By comparison, the average change between 2019 and 2020 reported in last year's AUIR was an increase of 7.50%.

When reviewing only higher capacity, multi-lane roadway segments in the County's network (only those with capacity over 1,000 vehicles per hour in the peak direction during the peak period) an average change of -3.45% was experienced over 2020.

For the 2020/2021 traffic counts used in the 2021 AUIR, 58 segments reflected a decrease over the previous year, 31 segments reflected an increase over the previous year, and 53 remained unchanged (+/-5%). Listed below are the numbers and corresponding percentages for the count stations, including the percentage changes between 2020 and 2021:

- 3.5% (5 segments) show an increase greater than 20% compared to 2020
- 10.6% (15 segments) show an increase of 10-20% compared to 2020
- 7.7% (11 segments) show an increase of up to 5-10% compared to 2020
- 37.3% (53 segments) show an insignificant change of -5% to 5% compared to 2020
- 17.6% (25 segments) show a decrease of 5-10% compared to 2020
- 15.5% (22 segment) show a decrease of 10-20% compared to 2020
- 7.7% (11 segments) show a decrease of greater than 20% compared to 2020

Note: Some count stations experienced significant year-to-year fluctuations due to construction avoidance.

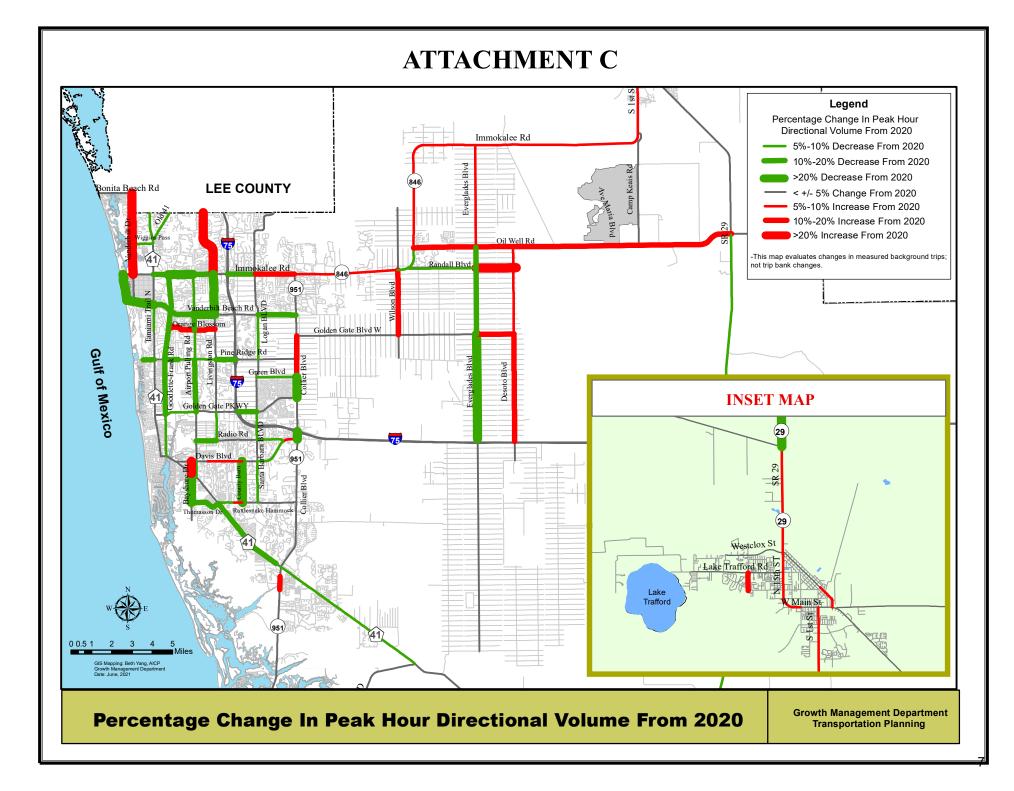
Several segments of State roads are predicted to be deficient when "trip bank" reserved capacity trips are added to existing volumes. Projected deficient segments on the East Tamiami Trail are located within the Transportation Concurrency Exception Area (TCEA), and development impacting these segments is subject to the TCEA's mitigation strategies. Other potentially deficient State road segments are currently programmed in the FDOT Work Program with improvements intended to add capacity to resolve any potentially deficient conditions.

Although traffic data collected by Florida Department of Transportation (FDOT) on the segments of I-75 between each interchange is not needed for the AUIR, because the change in mainline volumes correlates with changes in interchange ramp volumes, the mainline volumes are monitored/evaluated each year for informational purposes. A review of the most recent average annual growth rates for the last 3 and 5-year timeframes depicts an increase in traffic along all mainline segments of I-75 in the urban area as shown in **Table 1**.

	North of		North of		West of
I-75 Average Daily Traffic	Immokalee	North of Pine	Golden Gate	West of	Everglades
(AADT) Volumes	Road	<b>Ridge Road</b>	Pkwy	Collier Blvd	Blvd
	Site: 039950	Site: 030191	Site: 032003	Site: 032000	Site: 030351
2020	90,041	76,323	70,000	39,000	20,830
2019	105,903	89,215	79,000	45,000	26,404
2018	99,582	89,362	76,500	41,500	24,970
2017	97,387	82,348	79,000	43,500	24,968
2016	97,041	80,453	72,500	39,500	24,597
2015	92,399	76,809	70,000	40,500	23,127
2014	85,506	70,332	64,000	36,500	21,320
2013	79,834	65,423	58,000	34,500	20,221
2012	75,022	62,897	55,000	31,000	19,444
2011	74,500	61,224	55,000	31,500	19,204
2010	75,500	59,784	55,000	32,500	19,484
10-Yr Total % Increase	19.3%	27.7%	27.3%	20.0%	6.9%
10-Yr Avg Annual % Increase	1.8%	2.5%	2.4%	1.8%	0.7%
5-Yr Avg Annual % Increase	-0.5%	-0.1%	0.0%	-0.8%	-2.1%
3-Yr Avg Annual % Increase	-2.6%	-2.5%	-4.0%	-3.6%	-5.9%

 TABLE 1:
 I-75 Historical Annual Average Daily (AADT) Traffic Volumes (2-Way)

Source: Florida Department of Transportation



Attachment D
2022 Year Work Program
(Dollars shown in Thousands)

			(Dol	lars show	n in 1	housands	5)						
	Project Name												
Project		FY22		FY23		FY24		FY25		FY26		FY 22-26	FY 21-26
<b>#</b> 60168	SUMMARY OF PROJECTS Vanderbilt Beach Rd/Collier Blvd-16th	Amount 104,500	с	Amount		Amount		Amount		Amount		Amount 104,500	Amount 142,245
60201	Pine Ridge Rd (Livingston to I75)	4,086	DR	25,200	DCM							29,286	31,786
60147 60190	Randall/Immokalee Road Intersection Airport Rd Vanderbilt Bch Rd to Immokalee Rd	3,000	R	4,200 15,700	CM CM							7,200 15,700	10,845 18,863
60212	47th Ave NE Bridge			10,700	0.11	750	D			8,300	с	9,050	9,050
60212	Wilson Blvd South Bridge					450	DR			3,950	с	4,400	4,400
60212	13th St NW Bridge			350	D			3,700	С			4,050	4,050
60212 60212	62nd Ave NE Bridge 10th Ave SE Bridge			550	D	400	DR	5,550	с	3,850	с	4,250 6,100	4,250 6,100
60228	Sidewalks	745	D	1,251	D/C	4,895	с					6,891	10,000
60198	Veterans Memorial PH I			-		-						-	13,152
60198 60199	Veterans Memorial PH II Vanderbilt Beach Rd (US41 to E of Goodlette)	4,300	RD			14,831	СМ	13,500	DC			19,131 13,500	19,131 14,496
60129	Wilson Benfield Ext (Lord's Way to City Gate N)	1,500	RA	500	RA	1,000	RA	1,000	RA	1,000	RA	5,000	7,346
60144	Oil Well (Everglades to Oil Well Grade)	500	А	300	Α	300	Α	300	Α	300	Α	1,700	7,793
70167	Business Center (City Gate)		_			9,500	С					9,500	20,692
68056 60065	Collier Blvd (Green to South of GG Main Canal) Randall Blvd/8th to Everglades	2,000	R	38,100	RDC					3,000	n.	40,100 3,000	40,911 3,254
60232	Belle Meade	30	м							3,000	D	3,000	54
TBD	Goodlette Rd (VBR to Immokalee Rd)			2,750	D	634	Α	9,366	Α	2,643	Α	15,393	15,393
TBD	Green Blvd (Santa Barbara Blvd to Sunshine)			500	s							500	500
60229	Wilson Blvd (GG Blvd to Immokalee)	1,000	DR DRM	1,000	DR	21,800	с с					23,800	32,893
60249 TBD	Vanderbilt Bch Rd (16th to Everglades) Golden Gate Parkway at Livingston	8,190	DRIVI	5,860	RA	11,800 500	s			6,000	D	25,850 6,500	25,850 6,500
TBD	Railhead Crossing			200	с		•			0,000	-	200	200
TBD	Poinciana Professional Park			300	с							300	300
TBD	Tree Farm PUD			450	С							450	450
TBD 60016	Immokalee Rd at Livingston Intersections Improvements Shoulder Widening	3,200		1,800		2,575		950		6,000 675	D	6,000 9,200	6,000 10,352
60227	Corkscrew Rd (Lee County Line) Shoulders	3,200		1,000	с	2,575		350		0/5	ĺ	1,200	1,200
TBD	Santa Barbara/Logan Turnlane			,		879	D	7,879	с			8,758	8,758
60245	Logan Blvd N of Immk	2,600	с									2,600	2,765
	Contingency	6,019										- 6,019	- 6,019
	Total	141,670		100,211		70,314		42,245		35,718		390,158	563,747
66066	Operations Improvements/Programs Bridge Repairs/Improvements	2,950		6,500		3,000		3,000		1,500		- 16,950	0 29,255
60130	Wall/Barrier Replacement	50		250		250		250		250		1,050	2,202
60131 60077	Road Resurfacing 111/101 Striping and Marking	9,379 800		8,600 800		10,500 800		12,800 800		12,500 800		53,779 4,000	63,687 5,408
60172	Traffic Ops Upgrades/Enhancements	1,429		1,120		1,210		2,195		433		6,387	7,891
60189 60118	LED Replacement Program Countywide Pathways/Sidewalks Non PIL /LAP	576		1,250		350		650		475		- 3,301	132 4,220
60037	Asset Mgmt	25		150		150		150		150		625	1,352
60197 69331-339	RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PIL	195		500		500		500		500		2,195	3,650 724
	Subtotal Operations Improvements/Programs	15,404		19,170		16,760		20,345		16,608		88,287	118,521
60066	Congestion Mgmt Fare											-	1,263
60240 60085	Traffic Calming TIS Review	50 250	DC S	50 250	DC S	50 250	DC S	50 250	DC S	50 250	DC S	250 1,250	536 1,852
60088	PUD Monitoring											-	100
60109 60163	Planning Consulting Traffic Studies	400 300	S S	500 300	S S	500 300	S S	500 300	S S	500 300	S S	2,400 1,500	3,574 2,331
60171	Multi Project										-	-	22
50233	Off-Rd Vehicles & Equip Transfer to Fund 325 STO	100 11,318										100 11,318	100 11,318
	Transfer to 712											0	4,783
	Transfer to 370 Impact Fee Refunds	7,943 195		250		250		250		250		7,943 1,195	7,943 2,562
	Debt Service Payments	13,200		13,261		13,671		13,622		13,000		66,754	80,119
	Total Funding Request All Funds	190,830		133,992		102,095		77,562		66,676		0 571,155	0 798,771
	REVENUES Sales Tax	81,831		27,565		6,495		9,250		15,384		140,525	191,000
	Impact Fees Revenue	16,000		15,500		15,500		15,500		15,500		78,000	95,183
	COA Revenue Gas Tax Revenue	22,500		23,300		23,500		23,700		24,000		0 117,000	0 139,500
	Grants/Reimbursements* Transfer 001 to 310	535 8,817		14,928 8,817		0 8,817		6,806 8,817		0 8,817		22,269 44,085	42,089 52,902
	Transfer 111 to 310	3,000		3,000		3,000		3,000		3,000		15,000	18,000
	Interest Gas Tax-Impact Fees Carry Forward 313-310-Impact Fees	1,430 58,617		2,000		2,000		2,000		2,000		9,430 58,617	10,855 221,630
	Potential Debt Funding/Unfunded Needs	50,617		32,407		44,808		10,514				87,731	87,731
	Expected FEMA Reimbursement Revenue Reserve 5%	-1,902		8,500 -2,025		-2,025		-2,025		-2,025		8,500 -10,002	8,500 -10,002
	Total Revenues	-1,902 190,830		-2,025 133,992		-2,025 102,095		-2,025		-2,025 66,676		571,155	-10,002 857,388
	Gross Surplus/Shortfall	-		-		-		-		-		-	
	Cummulative Surplus/Shortfall Key:	-		-		-		-		-			
	A = Adv Construction / S = Study / D = Design												
	M = Mitigation / C = Construction / R = ROW LS = Landscape / L = Litigation / I = Inspection												
	AM = Access Mgmt / LP = SIB Loan Repayment												
	@ = See separate supplemental maps **The 5-cent Local Option Fuel Tax is earmarked to	wards debt se	ervice,	bridges, and	interse	ction improve	ments.						
	Project										1		
	FICEUL												

Project							
		FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	
16th St Bridge							
11 Bridge Immk-CR846					2,592		
Pine Ridge Livingston							
VBR US41 to E Goodlette					4,214		
Collier Blvd GG to Green			1,600				
Goodlette VBR to Imm			2,750				
Pine Ridge Livingston			5,450				
Airport VBR to Immk			4,928				
		0	14,728	0	6,806	0	
Sales Tax Projects:		FY22	FY23	FY24	FY25	FY26	FY 22
Vanderbilt Beach Ext		74,000					74
Pine Ridge Rd (Livingston to I75)		4,086	17,414				2
Immk/Randall Rd Intersection		3,000	4,000				
Airport Rd VBR to Immk Rd			4,000				
New Golden Gate Bridges (11)			900	1,600	9,250	15,384	2
Sidewalks		745	1,251	4,895			
	Total	81,831	27,565	6,495	9,250	15,384	14

FY 21-26 74,000 23,000 7,000 4,000 27,134 10,000 191,000

#### **Road Financing Plan Update**

	FY 22	FY 23	FY 24	FY 25	FY 26	5 Year Total
Project/Program Commitments	177 425 000	120 481 000	88 174 000	63 600 000	E2 426 000	E02 206 000
Project/Program Commitments	177,435,000	120,481,000	88,174,000	63,690,000	53,426,000	503,206,000
Existing Debt Service	13,200,000	13,261,000	13,671,000	13,622,000	13,000,000	66,754,000
Impact Fee Refunds	195,000	250,000	250,000	250,000	250,000	1,195,000
Total Expenses	190,830,000	133,992,000	102,095,000	77,562,000	66,676,000	571,155,000
Sales Tax Revenue	81,831,000	27,565,000	6,495,000	9,250,000	15,384,000	- 140,525,000
Impact Fee Revenue / COA Revenue	16,000,000	15,500,000	15,500,000	15,500,000	15,500,000	78,000,000
DCA	-	-	-	-	-	-
Gas Tax Revenue	22,500,000	23,300,000	23,500,000	23,700,000	24,000,000	117,000,000
Debt Svc General Fund Transfer	8,817,000	8,817,000	8,817,000	8,817,000	8,817,000	44,085,000
Transfer in from Fund 111	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	15,000,000
Interest Gas Tax/Impact Fee	1,430,000	2,000,000	2,000,000	2,000,000	2,000,000	9,430,000
Grants/Reimbursements *	535,000	23,428,000	-	6,806,000	-	30,769,000
Unfunded needs	2,000	32,407,000	44,808,000	10,514,000	-	87,731,000
Revenue Reserve ( 5% Budgeted by Statue)	(1,902,000)	(2,025,000)	(2,025,000)	(2,025,000)	(2,025,000)	(10,002,000)
Total Revenues	132,213,000	133,992,000	102,095,000	77,562,000	66,676,000	512,538,000
Carry Forward (Surplus or Shortfall) ** Additional Roll Forward	58,617,000	-	-	-	-	58,617,000 -
Fiscal Year Balance (Surplus or Shortfall)		-	-	-	-	-
Cumulative Fiscal Year Balance (Surplus or Shortfall)	-	-	-	-	-	

\* Includes programmed FDOT Grants and Naples Reserve DCA

\*\* Carry Forward includes the budgeted FY22 Carry forward and does not include project funding encumbered (roll over) in prior fiscal years to be paid out over the following schedule for phases (average time for payout): This Carry Forward number that includes the roll of encumbrances will not be available until after October 1, 2021 but attachment J provides a listing of major projects previously budgeted with carry forward funding anticipated to complete the project/phases.

Revenues based on current adopted Impact Fee Schedule, projected gas tax revenues, budgeted general fund transfer, and approved grants and developer contribution agreements.

#### Attachment "F" Collier County Annual Update and Inventory Report (AUIR) Based on Adopted LOS, Trip Bank and Traffic Counts

ID#	TCMA or TCEA	Road#	Link	From	То	Exist Road			lin Peak 1 * Dir	Peak Hour <sup>1</sup> Peak Dir Service Volume	2021 Peak Hour Peak Dir Volume	2020 Peak Hour Peak Dir Volume	Net Change In Volume From 2020	Percent Change In Volume From 2020	2021 Trip Bank	2021 1/7 <sup>th</sup> Trip Bank	Total Trip Bank	2021 Counts + Trip Bank Volume	2021 Counts + Trip Bank Remaining Capacity	2021 Counts + Trip Bank V/C	2021 w/TB L O S	Traffic Counts Year Expected Deficient	Trip Bank Year Expected Deficient
1.0	NW-TCMA	CR31	Airport Road	Immokalee Road	Vanderbilt Beach Road	4D	554	D	) N	2,200	1,540	1690	-150	-9.74%	39	0	39	1579	621	71.8%	С		
2.1	NW-TCMA	CR31	Airport Road	Vanderbilt Beach Road	Orange Blossom Drive	6D	599	E	E N	3,000	2,100	2330	-230	-10.95%	43	0	43	3 2143	857	71.4%	С		
2.2	NW-TCMA	CR31	Airport Road	Orange Blossom Drive	Pine Ridge Road	6D	503	E	E N	3,000	2,060	2230	-170	-8.25%	75	0	75	5 2135	865	71.2%	С		
3.0			Airport Road	Pine Ridge Road	Golden Gate Parkway	6D	502	E		3,000	2,000	2230	-230	-11.50%	14	0	14	-	986	67.1%	С		
4.0			Airport Road	Golden Gate Parkway	Radio Road	6D	533	E		2,800	2,210	2200	10		3	0	-		587	79.0%	D	ا ا	
5.0			Airport Road	Radio Road	Davis Boulevard	6D	553	E		2,800	2,130	2170	-40		0	, , , , , , , , , , , , , , , , , , ,			670	76.1%	D		
6.0	TCEA	CR31	Airport Road	Davis Boulevard	US 41 (Tamiami Trail)	6D	552	E		2,700	1,560	1650	-90		102				1036	61.6%	C		
7.0	TCEA(pt)	<b>CD</b> 0(5	Bayshore Drive	US 41 (Tamiami Trail)	Thomasson Drive	4D	521	D		1,800	490	660	-170	-34.69%	106				1202	33.2%	B		
8.0		CR 865	Bonita Beach Road	West of Vanderbilt Drive	Hickory Boulevard	4D	653	D		1,900	1,070	1080	-10		0	0		1010	830	56.3%	C C		
9.0			Carson Road	Lake Trafford Road	Immokalee Drive	2U	610	D		600	340	290	50		6	0			254	57.7%	-		
10.0		CP20	County Barn Road	Davis Boulevard	Rattlesnake Hammock Road	2U	519	D		900	330	480	-150		111	1	112		458	49.1%	B B		
11.0	TCEA		CR 29 Davis Boulevard	US 41 (Tamiami Trail)	Everglades City	2U 6D	582A	D E		1,000 2,700	140	160 1440	-20 -30		10 46		10		850 1244	15.0% 53.9%	В С		
12.0 13.0	TCEA		Davis Boulevard	US 41 (Tamiami Trail) Airport Road	Airport Road Lakewood Boulevard	4D	558 559	D		2,700	1,410 1,460	1440	-30		40		-		538	73.1%	C		
13.0	EC-TCMA		Davis Boulevard	Lakewood Boulevard	County Barn Road	4D 4D	658	D		2,000	1,400	1440	80		61	0			359	82.1%	D		
14.0	EC-TCMA EC-TCMA	SR84	Davis Boulevard	County Barn Road	Santa Barbara Boulevard	4D 4D	538	D		2,000	1,360	1300	-60		150	· · · ·			690	68.6%	C		
16.1	EC-TCMA	SR84	Davis Boulevard	Santa Barbara Boulevard	Radio Road	6D	560	E		3,300	770	810	-40		130				2372	28.1%	B		
16.2	EC-TCMA		Davis Boulevard	Radio Road	Collier Boulevard	6D	601	E		3,300	1,430	1290	140		112				1544	53.2%	C		
17.0	Le reimr			Collier Boulevard	Wilson Boulevard	4D	531	D		2,300	1,190	1290	80		112				295	87.2%	D		2028
18.0				US 41 (Tamiami Trail)	Goodlette-Frank Road	6D	530	E		2,700	1,640	1560	80		13				1047	61.2%	C		2020
19.0				Goodlette-Frank Road	Airport Road	6D	507	E		3,550	2,720	2990	-270		13	0	13	2721	829	76.6%	D		
20.1			Golden Gate Parkway	Airport Road	Livingston Road	6D	508	E		3,550	3,030	2950	80		17	0	17		503	85.8%	D		2027
20.2	EC-TCMA	CR886	Golden Gate Parkway	Livingston Road	I-75	6D	691	E	E E	3,550	3,210	3350	-140		0	0			340	90.4%	D		2027
21.0	EC-TCMA	CR886	Golden Gate Parkway	I-75	Santa Barbara Boulevard	6D	509	E		3,300	1,920	2240	-320		14	0	14		1366	58.6%	С		
22.0	EC-TCMA	CR886	Golden Gate Parkway	Santa Barbara Boulevard	Collier Boulevard	4D	605	D	)* E	1,980	1,690	1730	-40	-2.37%	52	8	60	) 1750	230	88.4%	D		2028
23.0	NW-TCMA	CR851	Goodlette-Frank Road	Immokalee Road	Vanderbilt Beach Road	2U	594	D	) N	1,000	800	910	-110	-13.75%	0	0	(	800	200	80.0%	D		
24.1	NW-TCMA	CR851	Goodlette-Frank Road	Vanderbilt Beach Road	Orange Blossom Drive	4D	595	E	E N	2,400	1,290	1490	-200	-15.50%	73	0	73	3 1363	1037	56.8%	С		
24.2	NW-TCMA	CR851	Goodlette-Frank Road	Orange Blossom Drive	Pine Ridge Road	6D	581	E	E N	2,400	1,490	1650	-160	-10.74%	8	0	8	3 1498	902	62.4%	С		
25.0		CR851	Goodlette-Frank Road	Pine Ridge Road	Golden Gate Parkway	6D	505	E	E N	3,000	1,760	1970	-210	-11.93%	16	0	16	5 1776	1224	59.2%	С		
26.0		CR851	Goodlette-Frank Road	Golden Gate Parkway	US 41 (Tamiami Trail)	6D	504	E	E S	2,700	2,510	2680	-170	-6.77%	0	0	0	2510	190	93.0%	D	2025	2025
27.0	EC-TCMA		Green Boulevard	Santa Barbara Boulevard	Collier Boulevard	2U	642	D	) E	900	700	750	-50	-7.14%	10	0	10	710	190	78.9%	С		
	NW-TCMA		Gulfshore Drive	111th Avenue	Vanderbilt Beach Road	2U	583a	D		800	220	310	-90		0		0		580	27.5%	В		
30.1			Collier Boulevard	Immokalee Road	Vanderbilt Beach Road	6D	655	E		3,000	1,830	1880	-50		579				555	81.5%	D	ا ا	2030
30.2			Collier Boulevard	Vanderbilt Beach Road	Golden Gate Boulevard	6D	584	E		3,000	1,400	1360	40		70				1502	49.9%	B		
31.1			Collier Boulevard	Golden Gate Boulevard	Pine Ridge Road	6D	536	E		3,000	2,340	1990	350		95				536	82.1%	D		
			Collier Boulevard	Pine Ridge Road	Green Boulevard	6D	536	E		3,000	2,340	1990	350	14.96%	129				509	83.0%	D		2031
32.1	EC-TCMA		Collier Boulevard	Green Boulevard	Golden Gate Pwky	4D	525	D		2,300	1,420	1730	-310		49				831	63.9%	C		
32.2	EC-TCMA		Collier Boulevard	Golden Gate Pwky	Golden Gate Main Canal	4D	607	D		2,300	1,800	1860	-60		79				259	88.7%	D		2028
32.3 33.0	EC-TCMA EC-TCMA		Collier Boulevard Collier Boulevard	Golden Gate Main Canal I-75	I-75 Davis Boulevard	8D 8D	607 573	E		3,600 3,600	1,800 2,260	1860 3560	-60 -1,300		60 36				1482 1027	58.8% 71.5%	C C		
34.0	EC-ICMA		Collier Boulevard	Davis Boulevard	Rattlesnake Hammock Road	6D	602	E		3,000	2,200	2130		0.00%	156				417	86.1%	D		2031
35.0			Collier Boulevard	Rattlesnake Hammock Road	US 41 (Tamiami Trail)	6D	603	E		3,200	2,130	2130			284				729	77.2%	D		2031
36.1			Collier Boulevard	US 41 (Tamiami Trail)	Wal-Mart Driveway	6D	557	E		2,500	2,030	2000			134	67			69	97.2%	E	]	2023
36.2			Collier Boulevard	Wal-Mart Driveway	Manatee Road	4D	557	D		2,000	2,230	1920	310		134	33			(388)		F	Existing	Existing
37.0			Collier Boulevard	Manatee Road	Mainsail Drive	4D	627	D		2,000	1,730	1690	40		125	40			249	88.7%	D	LAIsting	2028
38.0			Collier Boulevard	Mainsail Drive	Marco Island Bridge	4D	627	D		2,200	1,730	1690			32				426	80.6%	D		2020
	NW-TCMA		111th Avenue N.	Gulfshore Drive	Vanderbilt Drive	2U	585	D		700	320	290	30		0	0			380	45.7%	B		
			111th Avenue N.	Vanderbilt Drive	US 41 (Tamiami Trail)	2U	613	D		900	580	560	20		0	0	0		320	64.4%	C		
			Immokalee Road	US 41 (Tamiami Trail)	Goodlette-Frank Road	6D	566	E		3,100	1,960	2220	-260		3	0	-		1137	63.3%	C		
				Goodlette-Frank Road	Airport Road	6D	625	E		3,100	2,110	2760	-650		9	0	-		981	68.4%	C		
	NW-TCMA			Airport Road	Livingston Road	6D	567	E	E E	3,100	2,100	2360	-260		11	0	11		989	68.1%	С		
			Immokalee Road	Livingston Road	I-75	6D/8D		E	E E	3,500	3,110	3020			30	0	30		360	89.7%	D		2027
43.1		CR846	Immokalee Road	I-75	Logan Boulevard	6D/8D	701	E	E E	3,500	2,320	2620	-300	-12.93%	457	78	535	5 2855	645	81.6%	D		
43.2		CR846	Immokalee Road	Logan Boulevard	Collier Boulevard	6D	656	E	E E	3,200	2,280	2030	250	10.96%	828	91			1	100.0%	Е		2022
44.0		CR846	Immokalee Road	Collier Boulevard	Wilson Boulevard	6D	674	E	E E	3,300	2,710	2480	230	8.49%	935	58	993		(403)		F		Existing
45.0		CR846		Wilson Boulevard	Oil Well Road	6D	675	E	E E	3,300	2,200	2310			409				602	81.8%	D		
46.0		CR846	Immokalee Road	Oil Well Road	SR 29	2U	672	D	) Е	900	510	480	30	5.88%	181	38	219	729	171	81.0%	D	1	2031

#### Attachment "F" Collier County Annual Update and Inventory Report (AUIR) Based on Adopted LOS, Trip Bank and Traffic Counts

	TCMA or					Exist				Peak Hour <sup>+</sup> Peak Dir Service	<mark>2021</mark> Peak Hour Peak Dir	2020 Peak Hour Peak Dir	Net Change In Volume From	Percent Change In Volume From	2021 Trip	2021 1/7 <sup>th</sup> Trip	Total Trip	2021 Counts + Trip Bank	2021 Counts + Trip Bank Remaining	Counts + Trip Bank	2021 w/TB L O	Traffic Counts Year Expected	Trip Bank Year Expected
ID#	TCEA	Road#	Link	From	То	Road	Sta.	Std *	Dir	Volume	Volume	Volume	2020	2020	Bank	Bank	Bank	Volume	Capacity	V/C	S	Deficient	Deficient
47.0			Lake Trafford Road	Carson Rd	SR 29	2U	609	D	Е	800	480	500	-20	-4.17%	109	4	113	593	207	74.1%	С		
48.0			Logan Boulevard	Vanderbilt Beach Road	Pine Ridge Road	2U	587	D	N	1,000	590	620	-30	-5.08%	68	19	87	677	323	67.7%	С		
49.0	EC-TCMA		Logan Boulevard	Pine Ridge Road	Green Boulevard	4D	588	D	S	1,900	1,490	1530	-40		50	0	50	1540	360	81.1%	D		
50.0			0	Immokalee Road	Vanderbilt Beach Road	2U	644	D	N	1,000	650	670	-20		4	30	34	684	316	68.4%	С		
51.0	NW-TCMA			Imperial Street	Immokalee Road	6/4D	673	D	N	3,000	1,770	1410	360		119	0	119	1889	1111	63.0%	C		
52.0	NW-TCMA		0	Immokalee Road	Vanderbilt Beach Road	6D	576	<u> </u>	N	3,100	1,750	2220	-470		22		22	1772	1328	57.2%	C		
53.0 54.0	NW-TCMA EC-TCMA			Vanderbilt Beach Road	Pine Ridge Road Golden Gate Parkway	6D 6D	575 690	E	N N	3,100 3,100	1,490 1,330	1560 1330	-70	-4.70% 0.00%	0 56	*	0 56	1490 1386	1610 1714	48.1% 44.7%	B B		
55.0	EC-TCMA EC-TCMA			Pine Ridge Road Golden Gate Parkway	Radio Road	6D	687	E F	N	3,000	1,530	1330	-140		30		30	1380	1/14	57.1%	Б С		
58.0	LC-ICMA	CROOT	U U	New Market Road	SR-29 (Main Street)	2U	590	D	N	900	620	650	-140		17		24	644	256	71.6%	C		
59.0				Broward Street	SR 29 (Main Street)	20 2U	612	D	E	900	610	570	40		24		28	638	262	70.9%	C		
61.0				Oil Well Road	Immokalee Road	2U	626A	D	S	1,000	290	280	10		144		211	501	499	50.1%	B		
62.0	NW-TCMA		1	Lee County Line	US 41 (Tamiami Trail)	2U	547	D	N	1,000	1,060	1120	-60		9	0	9	1069	(69)	106.9%	Е	Existing	Existing
63.0	NW-TCMA	CR896		Crayton Road	US 41 (Tamiami Trail)	4D	511	D	Е	1,700	840	990	-150	-17.86%	0	0	0	840	860	49.4%	В		
64.0	NW-TCMA	CR896	Pine Ridge Road	US 41 (Tamiami Trail)	Goodlette-Frank Road	6D	512	Е	Е	2,800	1,910	1950	-40	-2.09%	17	0	17	1927	873	68.8%	С		
65.0	NW-TCMA	CR896	Pine Ridge Road	Goodlette-Frank Road	Shirley Street	6D	514	Е	Е	2,800	2,160	2430	-270	-12.50%	20	0	20	2180	620	77.9%	D		
66.0	NW-TCMA		6	Shirley Street	Airport Road	6D	515	Е	E	2,800	3,030	3230	-200	-6.60%	23	0	23	3053	(253)	109.0%	F	Existing	Existing
67.1	NW-TCMA	CR896	Pine Ridge Road	Airport Road	Livingston Road	6D	526	E	E	3,900	3,330	3540	-210		17	-	17	3347	553	85.8%	D		2029
67.2	EC-TCMA			Livingston Road	I-75	6D	628	Е	E	3,900	2,650	3130	-480	-18.11%	84		84	2734	1166	70.1%	С		
68.0	EC-TCMA		0	I-75	Logan Boulevard	6D	600	E	E	2,800	2,480	2400	80	3.23%	126		126	2606	194	93.1%	D		2025
69.0				Airport Road	Livingston Road	4D	544	D	E	1,800	1,030	1160	-130		58		58	1088	712	60.4%	С		
70.0	EC-TCMA			Livingston Road	Santa Barbara Boulevard	4D	527	D	E	1,800	1,490	1440	50		30		30	1520	280	84.4%	D		2030
71.0	EC-TCMA			Santa Barbara Boulevard	Davis Boulevard	4D	685	D	W	1,800	630	690	-60		45		130	760	1040	42.2%	B		
72.0	TCEA(at)		Rattlesnake Hammock Road	· · · · · · · · · · · · · · · · · · ·	Charlemagne Boulevard	4D	516	D	E	1,800	1,020	1080	-60		114	11	125 99	1145	655	63.6%	C B		
73.0	TCEA(pt)		Rattlesnake Hammock Road Rattlesnake Hammock Road		County Barn Road Santa Barbara Boulevard	4D 4D	517 534	D D	E E	1,800 1,900	800	840	60	0.00%	<u>88</u> 67	11	85	999 885	801 1015	55.5% 46.6%	B		
74.0		CR864 CR864	Rattlesnake Hammock Road		Collier Boulevard	6D	518	E E	W	2,900	770	740	30		106		181	951	1949	32.8%	В		
75.0	EC-TCMA	CK004		Green Boulevard	Golden Gate Parkway	4D	529	D E	N	2,900	1,540	1590	-50		0		0	1540	560	73.3%	D C		
70.0	EC-TCMA EC-TCMA			Golden Gate Parkway	Radio Road	4D 6D	529	E	N	3,100	2,120	2240	-120		54	v	54	2174	926	70.1%	C		
78.0	EC-TCMA			Radio Road	Davis Boulevard	6D	537	E	N	3,100	1,430	1480	-50		255		255	1685	1415	54.4%	C		
79.0	Derenni			Davis Boulevard	Rattlesnake-Hammock Road	6D	702	Ē	S	3,100	890	940	-50		262		262	1152	1948	37.2%	B		
80.0				US 41 (Tamiami Trail)	CR 837 (Janes Scenic Dr)		615A	D	N	900	140	150	-10		0		0	140	760	15.6%	В		
81.0		SR29		CR 837 (Janes Scenic Dr)	I-75	2U	615A	D	N	900	140	150	-10		0	0	0	140	760	15.6%	В		
82.0		SR29	SR 29	I-75	Oil Well Road	2U	615A	D	N	900	140	150	-10	-7.14%	48	19	67	207	693	23.0%	В		
83.0		SR29	SR 29	Oil Well Road	CR 29A South	2U	665A	D	Ν	900	440	420	20	4.55%	54	25	79	519	381	57.7%	С		
84.0				CR 29A South	9th Street	4D	664	D	W	1,700	610	620	-10	-1.64%	108	34	142	752	948	44.2%	В		
85.0				9th Street	CR 29A North	2U	663	D	S	900	700	650	50		71		92	792	108	88.0%	D		2029
86.0				CR 29A North	SR 82	2U	663	D	S	900	700	650	50		46		68	768	132	85.3%	D		2030
87.0				Hendry County Line	SR 82	2U	591A	D	S	800	300	390			7	3	10	310	490	38.8%	В		
88.0				Lee County Line	SR 29	2U	661A	D	S	800	790	790		0.00%	41	14	55	845	(45)	105.6%	E	2022	Existing
91.0	TCEA	US41		Davis Boulevard	Airport Road	6D	545	<u>Е</u> Г	E	2,900	1,560	1610			180		182	1742	1158	60.1%	C	2022	<b>F</b> : (
92.0	TCEA			Airport Road	Rattlesnake Hammock Road Triangle Boulevard	6D	604 572	E E	E E	2,900	2,820	2780 1980	40		257		337	3157	(257)	108.9%	F	2023	Existing
93.0 94.0		US41 US41		Rattlesnake Hammock Road Triangle Boulevard	Collier Boulevard	6D 6D	572	E E	E	3,000 3,000	1,790 1,610	1980	-190		447 266		582 357	2372 1967	628 1033	79.1% 65.6%	D C		
94.0		US41 US41		Collier Boulevard	Joseph Lane	6D	608	E F	E	3,100	850	900	-50		528		558	1408	1692	45.4%	B		
95.2		US41 US41		Joseph Lane	Greenway Road	4D	608	D	E	2,000	850	900	-50		234		313	1408	837	58.2%	C		
95.3		US41		Greenway Road	San Marco Drive	2U	608	D	E	1,075	850	900	-50		141	27	168	1018	57	94.7%	D		2023
96.0		US41		San Marco Drive	SR 29		617A	D	E	1,075	210	220			6	0	6	216	784	21.6%	B		
97.0		US41		SR 29	Dade County Line		616A	D	E	1,000	180	190			8	0	8	188	812	18.8%	В		
98.0	NW-TCMA	US41		Lee County Line	Wiggins Pass Road	6D	546	Е	N	3,100	2,010	2150			49	8	57	2067	1033	66.7%	С		
	NW-TCMA			Wiggins Pass Road	Immokalee Road	6D	564	Е	N	3,100	2,970	2920			46		54	3024	76	97.5%	Е	2024	2023
100.0	NW-TCMA	US41		Immokalee Road	Vanderbilt Beach Road	6D	577	Е*	N	3,410	2,050	1950	100	4.88%	18	0	18	2068	1342	60.6%	С		
101.0	NW-TCMA			Vanderbilt Beach Road	Gulf Park Drive	6D	563	Е	N	3,100	2,430	2600	-170	-7.00%	16	0	16	2446	654	78.9%	D		
	NW-TCMA			Gulf Park Drive	Pine Ridge Road	6D	562	Е *		3,410	2,290	2340			0	•	0	2290	1120	67.2%	С		
108.0	TCEA(pt)		Thomasson Drive	Bayshore Drive	US 41 (Tamiami Trail)	2U	698	D	E	800	520	590	-70	-13.46%	66	4	70	590	210	73.8%	С		

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										Peak Hour '	<mark>2021</mark> Peak	2020 Peak	Net Change	Percent Change		2021		2021	2021 Counts +	2021	2021 w/TB	Traffic Counts	Trip Bank
										Peak Dir	Hour	Hour	In Volume	In Volume	2021	$1/7^{th}$	Total	Counts +	Trip Bank	Counts +	L	Year	Year
	TCMA or									Service	Peak Dir	Peak Dir	From	From	Trip	Trip	Trip	Trip Bank	Remaining	1		Expected	Expected
ID#	TCEA	Road#	Link	From	То	Road	Sta.	Std *	Dir	Volume	Volume	Volume	2020	2020	Bank	Bank	Bank	Volume	Capacity	V/C	S	Deficient	Deficient
109.0	NW-TCMA	CR862	Vanderbilt Beach Road	Gulfshore Drive	US 41 (Tamiami Trail)	2U/4D	524	E *	E	1,540	870	1160	-290	-33.33%	13	0	13	883	657	57.3%	С		
110.1	NW-TCMA	CR862	Vanderbilt Beach Road	US 41 (Tamiami Trail)	Goodlette-Frank Road	4D	646	D	E	1,900	1,430		-170		13	-	13		456	76.0%	C		
110.2	NW-TCMA	CR862	Vanderbilt Beach Road	Goodlette-Frank Road	Airport Road	4D/6D	666	D	Ē	2,500	1,590	1770	-180		61	0		1651	849	66.0%	C		
111.1	NW-TCMA	CR862	Vanderbilt Beach Road	Airport Road	Livingston Road	6D	579	E	E	3,000	2,040			-32.84%	4	0	4	2044	956	68.1%	C		
111.2	NW-TCMA	CR862	Vanderbilt Beach Road	Livingston Road	Logan Blvd.	6D	668	Е	Е	3,000	2,400				126	0	126		474	84.2%	D		2026
112.0		CR862	Vanderbilt Beach Road	Logan Boulevard	Collier Boulevard	6D	580	Е	Е	3,000	1,680				164		166		1154	61.5%	С		
114.0	NW-TCMA	CR901	Vanderbilt Drive	Bonita Beach Road	Wiggins Pass Road	2U	548	D	N	1,000	500		110	22.00%	1	32	33		467	53.3%	В		
115.0	NW-TCMA	CR901	Vanderbilt Drive	Wiggins Pass Road	111th Avenue	2U	578	D	N	1,000	980	400	580	59.18%	0	13	13	993	7	99.3%	D	2022	2022
116.0			Westclox Road	Carson Road	SR 29	2U	611	D	W	800	210	220	-10	-4.76%	16	0	16	226	574	28.3%	В		
117.0	NW-TCMA	CR888	Wiggins Pass Road	Vanderbilt Drive	US 41 (Tamiami Trail)	2U	669	D	E	1,000	400	420	-20	-5.00%	14	13	27	427	573	42.7%	В		
118.0			Wilson Blvd	Immokalee Road	Golden Gate Boulevard	2U	650	D	S	900	420	350	70	16.67%	77	0	77	497	403	55.2%	В		
119.0		CR858	Oil Well Road	Immokalee Road	Everglades Boulevard	4D	725	D	E	2,000	1,070	950	120	11.21%	470	58	528	1598	402	79.9%	D		
120.0		CR858	Oil Well Road	Everglades Boulevard	Desoto Boulevard	2U	694	D	E	1,100	430	370	60	13.95%	171	60	231	661	439	60.1%	С		
121.1			Oil Well Road	DeSoto Boulevard	Oil Well Grade	2U	694	D	E	1,100	430				138		188	618	482	56.2%	С		
121.2			Oil Well Road	Oil Well Grade	Ave Maria Blvd	4D	694	D	E	2,000	430			13.95%	127				1393	30.4%	В		
122.0			Oil Well Road	Ave Maria Blvd	SR 29	2U	694	D	E	800	430		60		108	50			212	73.5%	С		
123.0			Golden Gate Boulevard	Wilson Boulevard	18th Street NE/SE	4D	652	D	E	2,300	1,480		40		54	5	59		761	66.9%	С		
123.1			Golden Gate Boulevard	18th Street NE/SE	Everglades Boulevard	4D	652	D	E	2,300	1,480				0	5	5		815	64.6%	С		
124.0			Golden Gate Boulevard	Everglades Boulevard	DeSoto Boulevard	2U	722A	D	E	1,010	280			15.36%	24	0	21		706	30.1%	В		
125.0	EC-TCMA	CR896	0	Logan Boulevard	Collier Boulevard	4D	535	D	E	2,400	1,590				5	7	12		798	66.8%	С		
132.0			Randall Boulevard	Immokalee Road	Everglades Boulevard	2U	651	D	E	900	810				9	10	-		65	92.8%	D		2025
133.0			Randall Boulevard	Everglades Boulevard	DeSoto Boulevard	2U	721A	D	E	900	170				31	-	51	-	699	22.3%	В		
134.0			Everglades Boulevard	I-75	Golden Gate Blvd	2U	637S	D	S	800	420		-121	-28.81%	16	-	10		364	54.5%	В		
135.0			Everglades Boulevard	Golden Gate Boulevard	Oil Well Road	2U	636S	D	N	800	370				138		17/		283	64.6%	С		
136.0			Everglades Boulevard	Oil Well Road	Immokalee Road	2U	635S	D	N	800	610				5	v		010	185	76.9%	С		2031
137.0			DeSoto Boulevard	I-75	Golden Gate Boulevard		639A	D	S	800	180				0	0	0	100	620	22.5%	В		
138.0			DeSoto Boulevard	Golden Gate Boulevard	Oil Well Road		638A	D	S	800	150	-	-		17		1 /		633	20.9%	В		
142.0	NW-TCMA		Orange Blossom Drive	Goodlette-Frank Road	Airport Road	2D	647	D *	W	1,320	490				26		26		804	39.1%	В		
143.0	NW-TCMA		Orange Blossom Drive	Airport Road	Livingston Road	2U	647	D	W	1,000	490				73	0	73		437	56.3%	С		
144.0	TCEA		Shadowlawn Drive	US 41 (Tamiami Trail)	Davis Boulevard	2U	523	D	N	800	450	250	200	44.44%	0	0	0	450	350	56.3%	С		

\* Segment designated as "Constrained" with SV increase +10%

<sup>1</sup> Level of service calculations for road facilities means calculations for peak hour traffic on a roadway segment for maximum service volumes at the adopted LOS. Peak hour is calculated as the 100th highest hour based on a 10 month period (omitting February and March), which is generally equivalent to the 250th highest hour for a twelve (12) month period. For design of roadway capacity projects, the 30th highest hour for a 12-month period at LOS "D" will be utilized. (LDC Section 6.02.03 C.)

#### 2021 AUIR Update Programmed Improvements and Deficiencies Report

			Listed below are the roadway links that are currently deficient or are projected to be deficient under the concurrency system within the next five years and the programmed and proposed solutions to solve these deficiencies       2021 Programmed Improvements to Address Deficiencies       Trip Bank ((Tith)     Year (Stol)     Expected Deficiencies       Constitution of the concurrency system within the next five years and the programmed and proposed solutions to solve these deficiencies       Constitution of the concurrency system within the next five years and the programmed and proposed solutions to solve these deficiencies       Constitution of the concurrency system within the next five years and the programmed and proposed solutions to solve these deficiencies       Constitution of the concurrency system within the next five years       Constitution of the concurrency system within the next five years       Constitution of the concurrency system within the next five years       Constitution of the concurrency system within the next five years       Constitution of the concurrency system within the next five years       Constitution of the concurrency system within the next five years       Constitution of the concurrency system within the next five years       Constitution of the concurrency system within the next five years       Constitution of the concurrency system within the next five years       Conconcurrency system within the next													
ID#	Map Last Year	Roadway	From	То	Trip Bank (1/7th)	Remaining Capacity	V/C (Std)	ТСМА ТСЕА			Solutions					
1.0		Airport Road	Immokalee Road	Vanderbilt Beach Road	39	621	71.8%	NW-TCMA			6-lane Improvement CST FY2023					
23.0		Goodlette-Frank Road	Immokalee Road	Vanderbilt Beach Road	0	200	80.0%	NW-TCMA		2025	Future 6-lane Improvement Design/ROW/AdvCST Programmed, CST FY2025					
32.1		Collier Boulevard	Green Boulevard	Golden Gate Pwky	49	831	63.9%	EC-TCMA			6-lane Improvement CST FY2023					
32.2		Collier Boulevard	Golden Gate Pwky	Golden Gate Main Canal	241	259	88.7%	EC-TCMA	2028	2025	6-lane Improvement D/B CST FY2023					
33.0		Collier Boulevard	I-75	Davis Boulevard	313	1027	71.5%	EC-TCMA		Existing	Within the East Central TCMA - Funded for CST by FDOT FY25					
36.2		Collier Boulevard	Wal-Mart Driveway	Manatee Road	158	-388	119.4%	NO	Existing	Existing	6-lane Improvement FDOT Funding for R/W FY2021 and CST FY2024					
67.2		Pine Ridge Road	Livingston Road	I-75	84	1166	70.1%	EC-TCMA			CFI/R-Cut/DDI Improvements CST Funded FY2023					
110.1		Vanderbilt Beach Road	US 41 (Tamiami Trail)	Goodlette-Frank Road	14	456	76.0%	NW-TCMA		2029	6-lane Improvement CST FY2025					
TBD		Vanderbilt Beach Road	Collier Blvd	16th Street NE	#N/A	#N/A	#N/A	#N/A	NA	NA	New 4-lane Improvement from Collier Blvd to Wilson Blvd (2-lanes from Wilson Blvd to 16th St NE) FY2022					
TBD		Vanderbilt Beach Road	16th Street NE	Everglades Blvd	#N/A	#N/A	#N/A	#N/A	NA	NA	Future 2-lane Improvement R/W & Adv. CST FY2022-2024					
TBD		Veterans Memorial Blvd. Phases I & II	Livingston Rd	US 41	#N/A	#N/A	#N/A	#N/A	NA	NA	New 4-lane Improvement Phase I - CST FY2021 New 4-lane Improvement Phase II - Design/RW FY2024 & CST FY2025					
TBD		Whippoorwill Ln - Marbella Lake Dr Interconnection	Whippoorwill Lane	Marbella Lakes Dr	#N/A	#N/A	#N/A	#N/A	NA	NA	New 2-lane Improvement CST FY2021					
118.0		Wilson Blvd	Immokalee Road	Golden Gate Boulevard	77	403	55.2%	NO			4-lane Improvement Design FY2021 & CST FY2024					
132.0		Randall Boulevard	Immokalee Road	8th Street NE	25	65	92.8%	NO	2025	2021	4-lane Improvement CST FY2023					
132.0		Randall Boulevard	8th Street NE	Everglades Boulevard	25	65	92.8%	NO	2025	2021	Future 4-lane Improvement Design FY2026					
TBD		Wilson-Benfield Ext	Lords Way	City Gate Blvd N	#N/A	#N/A	#N/A	#N/A	NA	NA	New roadway corridor; Adv. R/W & CST FY2022-2026					
TBD		47th Ave. NE Bridge & Roadway Improvements	Immokalee Rd.	Everglades Boulevard	#N/A	#N/A	#N/A	#N/A	NA	NA	New Bridge and Associated roadway and intersection improvements; CST FY2026					
TBD		Wilson Blvd. S. Bridge & Roadway Improvements	Golden Gate Blvd.	Frangipani/Tobias	#N/A	#N/A	#N/A	#N/A	NA	NA	New Bridge and Associated roadway and intersection improvements; CST FY2026					
TBD		13th St. Nw Bridge & Roadway Improvements	Golden Gate Blvd.	North of Canal	#N/A	#N/A	#N/A	#N/A	NA	NA	New Bridge and Associated roadway and intersection improvements; CST FY2025					
TBD		62nd Ave. NE Bridge & Roadway Improvements	Everglades Blvd.	40th St. NE	#N/A	#N/A	#N/A	#N/A	NA	NA	New Bridge and Associated roadway and intersection improvements; CST FY2026					
TBD		10th Ave. SE Bridge & Roadway Improvements	Everglades Blvd.	Desoto Blvd.	#N/A	#N/A	#N/A	#N/A	NA	NA	New Bridge and Associated roadway and intersection improvements; CST FY2025					
TBD		16th St. NE Bridge & Roadway Improvements	Golden Gate Blvd.	Randall Blvd.	#N/A	#N/A	#N/A	#N/A	NA	NA	New Bridge and Associated roadway and intersection improvements; CST FY2026					
TBD		Golden Gate Pkwy at Livingston Road	Inters	ection	#N/A	#N/A	#N/A	#N/A	NA	NA	Future Intersection Imporvements - Design 2026					
TBD		Golden Gate Pkwy at Livingston Road	Inters	ection	#N/A	#N/A	#N/A	#N/A	NA	NA	Future Intersection Imporvements - Design 2026					

#### 2021 AUIR Update Programmed Improvements and Deficiencies Report

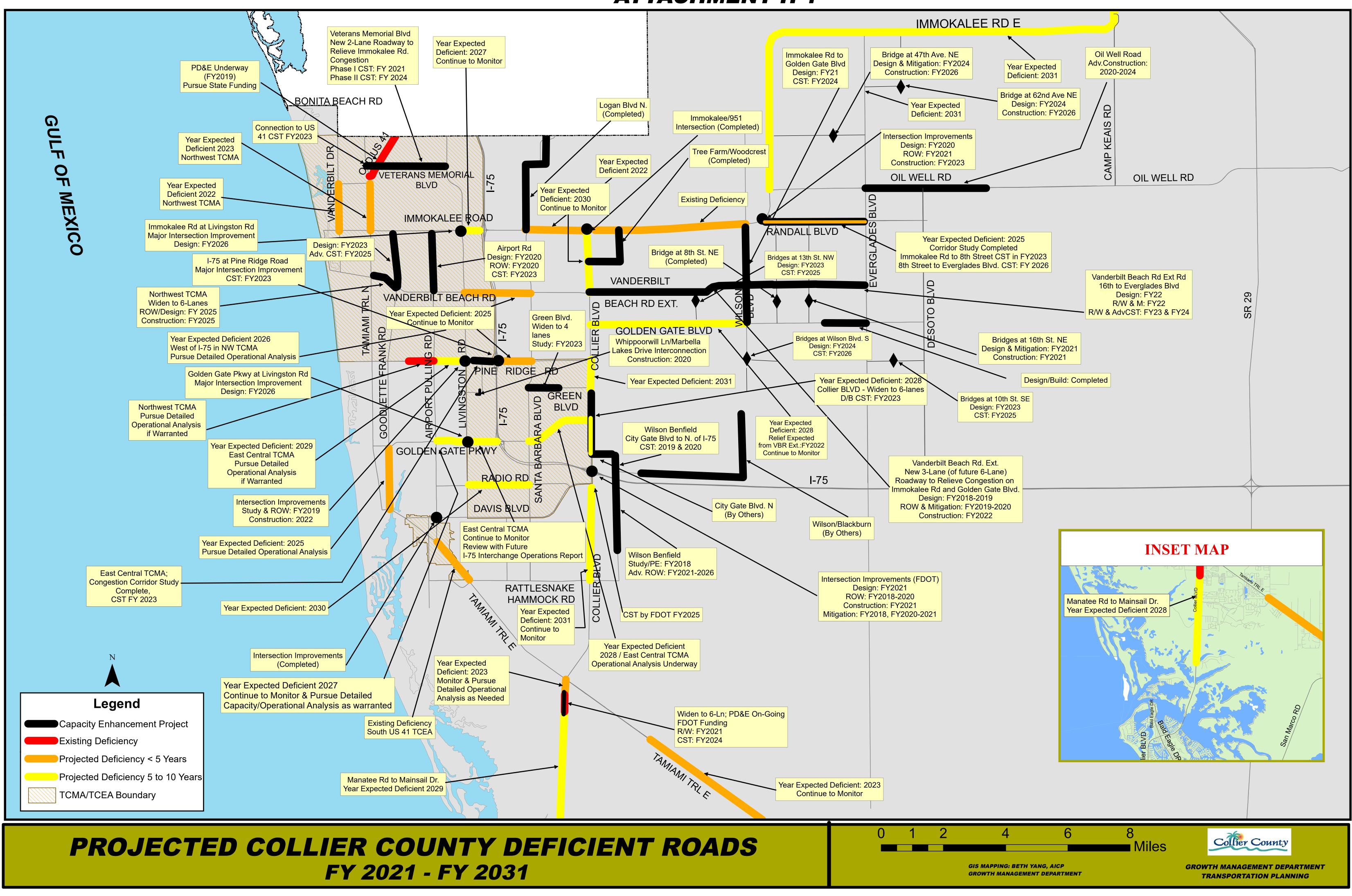
									es Based on T			re programmed and proposed solutions to solve these deficiencies		
ID#	Мар	Last Year	Roadway	From	То	Trip Bank (1/7th) for Info Only	Remaining Capacity	V/C (Std)	ТСМА ТСЕА	Year Expected Deficient	Expected Def. Last Year	Solutions		
36.2			Collier Boulevard	Wal-Mart Driveway	Manatee Road	158	-388	119.4%	NO	Existing	Existing	Widen to 6-Ln; FDOT Funded R/W FY2021 and CST FY2024		
62.0			Old US 41	Lee County Line	US 41 (Tamiami Trail)	9	-69	106.9%	NW-TCMA	Existing	Existing	Within the Northwest TCMA; Widen to 4-Lanes; PD&E Study Underway by FDOT; Pursue Federal Funding		
66.0			Pine Ridge Road	Shirley Street	Airport Road	23	-253	109.0%	NW-TCMA	Existing	Existing	Within the Northwest TCMA; Continue to Monitor; Pursue Detailed Operational Analysis if Warranted		
					Project	ed Deficien	cies Existing	- 2026 (Tra	ffic Counts +	Frip Bank &	1/7th Vested	Trips)		
ID#	Мар	Last Year	Roadway	From	То	Trip Bank (1/7th)	Remaining Capacity	V/C (Std)	ТСМА ТСЕА	Year Expected Deficient	Expected Def. Last Year	Solutions		
26.0			Goodlette-Frank Road	Golden Gate Parkway	US 41 (Tamiami Trail)	0	190	93.0%	NO	2025	2021	Continue to monitor; Pursue Detailed Operational Analysis if Warranted		
36.1			Collier Boulevard	US 41 (Tamiami Trail)	Wal-Mart Driveway	201	69	97.2%	NO	2023	2024	Continue to monitor; Pursue Detailed Operational Analysis if Warranted		
43.2			Immokalee Road	Logan Boulevard	Collier Boulevard	919	1	100.0%	NO	2022	2027	Pursue Detailed Capacity/Operational Analysis. Anticipate Future VBR Extension construction in 2022 to Reduce Volumes;		
44.0			Immokalee Road	Collier Boulevard	Wilson Boulevard	993	-403	112.2%	NO	Existing	2021	Pursue Detailed Capacity/Operational Analysis. Anticipate Future VBR Extension construction in 2022 to Reduce Volumes;		
68.0			Pine Ridge Road	I-75	Logan Boulevard	126	194	93.1%	EC-TCMA	2025	2026	Within the Northwest TCMA; Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted;		
88.0			SR 82	Lee County Line	SR 29	55	-45	105.6%	NO	Existing	Existing	Widen to 4-Ln; Gator Slough to SR29 FDOT Under CST; Remaining Funded for CST FY24		
92.0			Tamiami Trail East	Airport Road	Rattlesnake Hammock Roa	337	-257	108.9%	TCEA	Existing	Existing	Within the South US 41 TCEA; Continue to Monitor; Pursue Detailed Operational Analysis if Warranted		
95.3			Tamiami Trail East	Greenway Road	San Marco Drive	168	57	94.7%	NO	2023	2021	Greenway Rd to 6-L Farms Rd is funded thru CST in the MPO CFP (2031-2040); East of 6-L Farms RD is not expected to be deficient within the same time frame; Continue to Monitor;		
99.0			Tamiami Trail North	Wiggins Pass Road	Immokalee Road	54	76	97.5%	NW-TCMA	2023	2023	Within the Northwest TCMA; Proposed Veterans Memorial Blvd. will provide a connection to Livingston North/South that should provide additional relief; Continue to Monitor		
111.2			Vanderbilt Beach Road	Livingston Road	Logan Blvd.	126	474	84.2%	NW-TCMA	2026	2025	Livingston to I-75 is in the Northwest TCMA		
115.0			Vanderbilt Drive	Wiggins Pass Road	111th Avenue	13	7	99.3%	NW-TCMA	2022		Within the Northwest TCMA; Continue to Monitor		
132.0			Randall Boulevard	Immokalee Road	Everglades Boulevard	25	65	92.8%	NO	2025	2021	Immokalee Rd @ Randall Blvd Intersection Improvement PD&E Underway; Immokalee Rd. to 8th Street Funded for Construction in FY22; Randall Blvd. Corridor Study Complete; Continue to Pursue Funding		

#### 2021 AUIR Update Programmed Improvements and Deficiencies Report

					Projec	cted Deficie	ncies - 2027-	2031 (Traf	fic Counts + T	rip Bank & 1	/7th Vested T	ſrips)
ID#	Мар	Last Year	Roadway	From	То	Trip Bank (1/7th)	Remaining Capacity	V/C (Std)	ТСМА ТСЕА	Year Expected Deficient	Expected Def. Last Year	Solutions
17.0			Golden Gate Boulevard	Collier Boulevard	Wilson Boulevard	15	295	87.2%	NO	2028	2030	Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted; Anticipate Future VBR Extension construction in 2022 to Reduce Volumes;
20.1			Golden Gate Parkway	Airport Road	Livingston Road	17	503	85.8%	NO	2027	2027	Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted;
20.2			Golden Gate Parkway	Livingston Road	I-75	0	340	90.4%	EC-TCMA	2027	2023	Within the East Central TCMA - Continue to Monitor and Review with Future I-75 Interchange Operation Analysis Report;
22.0			Golden Gate Parkway	Santa Barbara Boulevard	Collier Boulevard	60	230	88.4%	EC-TCMA	2028	2026	Within the East Central TCMA - Operational Analysis Underway; Continue to Monitor and Review with Future I-75 Interchange Operation Analysis Report; Green Blvd. east of Logan being studied (FY2023) as a potential reliever.
30.1			Collier Boulevard	Immokalee Road	Vanderbilt Beach Road	614.57	555	81.5%	NO	2030	2030	Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted; 4-laning of parallel reliever in 2022 (Wilson Blvd - Immokalee Rd. to GG Blvd CST FY2024)
31.2			Collier Boulevard	Pine Ridge Road	Green Boulevard	151	509	83.0%	EC-TCMA	2031		
32.2			Collier Boulevard	Golden Gate Pwky	Golden Gate Main Canal	241	259	88.7%	EC-TCMA	2028	2025	6-lane Improvement D/B CST FY2023
34.0			Collier Boulevard	Davis Boulevard	Rattlesnake Hammock Roa	453	417	86.1%	NO	2031	2030	Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted;
37.0			Collier Boulevard	Manatee Road	Mainsail Drive	221	249	88.7%	NO	2028	2029	Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted;
42.2			Immokalee Road	Livingston Road	I-75	30	360	89.7%	NW-TCMA	2027	2028	Within the Northwest TCMA - Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted; Parallel Roadway Veteran's Memorial Blvd programmed for construction in 2022; Connection to US 41 FY2023
46.0			Immokalee Road	Oil Well Road	SR 29	219	171	81.0%	NO	2031		
67.1			Pine Ridge Road	Airport Road	Livingston Road	17	553	85.8%	NW-TCMA	2029	2025	Within the Northwest TCMA - Congestion Corridor Study Completed for Pine Ridge Road @ Livingston programmed in CIE; PD&E Programmed in FY 19/20 for Interchange Area. Construction programmed in 2023; SV Increased in 2020 AUIR
70.0			Radio Road	Livingston Road	Santa Barbara Boulevard	30	280	84.4%	EC-TCMA	2030		Within the East Central TCMA - Continue to Monitor and Review
85.0			SR 29	9th Street	CR 29A North	92	108	88.0%	NO	2029		
86.0			SR 29	CR 29A North	SR 82	68	132	85.3%	NO	2030		
136.0			Everglades Boulevard	Oil Well Road	Immokalee Road	5	185	76.9%	NO	2031		

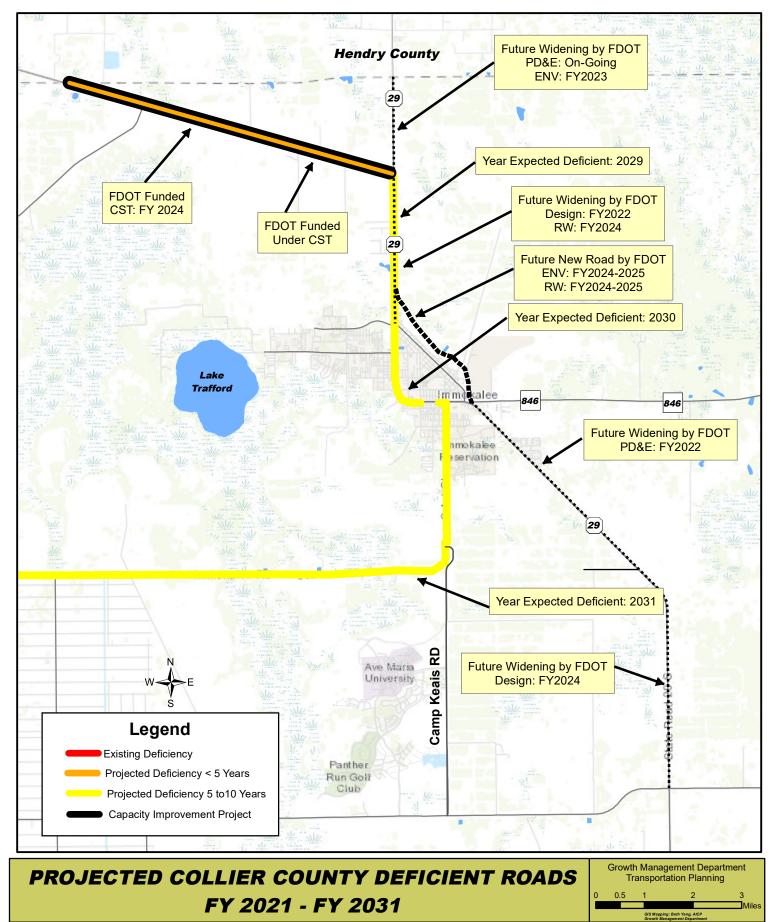
#### 2021 AUIR Update Programmed Improvements and Deficiencies Report

				,	,	. ,			Last Year's Li		,	re programmed and proposed solutions to solve these denciencies
ID#	Мар	Last Year	Roadway	From	То	Trip Bank (1/7th)	Remaining Capacity	V/C (Std)	ТСМА ТСЕА	Year Expected Deficient	Expected Def. Last Year	Solutions
19.0			Golden Gate Parkway	Goodlette-Frank Road	Airport Road	1	829	76.6%	NO		2029	Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted;
23.0			Goodlette-Frank Road	Immokalee Road	Vanderbilt Beach Road	0	200	80.0%	NW-TCMA		2025	Within the Northwest TCMA - Design/ROW/AdvCST Programmed, CST FY2025
27.0			Green Boulevard	Santa Barbara Boulevard	Collier Boulevard	10	190	78.9%	EC-TCMA		2029	Within the East Central TCMA;
33.0			Collier Boulevard	I-75	Davis Boulevard	313	1027	71.5%	EC-TCMA		Existing	Within the East Central TCMA - Funded for CST by FDOT FY25
41.2			Immokalee Road	Goodlette-Frank Road	Airport Road	9	981	68.4%	NW-TCMA		2024	Within the Northwest TCMA - Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted; Pursue parallel Roadway, Veteran's Memorial Blvd to US 41 programmed for CST FY23
43.1			Immokalee Road	I-75	Logan Boulevard	535	645	81.6%	NO		2025	Continue to Monitor; Interchange Improvements Proposed in MPO Cost Feasible Plan 2021-2025, Anticipate Future VBR Extension to Reduce Volumes; Operational Analysis Underway; Study and Adv. CST FY2024
45.0			Immokalee Road	Wilson Boulevard	Oil Well Road	498	602	81.8%	NO		2028	Pursue Detailed Capacity/Operational Analysis. Anticipate Future VBR Extension construction in 2022 to Reduce Volumes;
49.0			Logan Boulevard	Pine Ridge Road	Green Boulevard	50	360	81.1%	EC-TCMA		2029	Within the East Central TCMA; Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted;
65.0			Pine Ridge Road	Goodlette-Frank Road	Shirley Street	20	620	77.9%	NW-TCMA		2027	Within the Northwest TCMA; Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted;
101.0			Tamiami Trail North	Vanderbilt Beach Road	Gulf Park Drive	16	654	78.9%	NW-TCMA		2029	Within the Northwest TCMA; Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted;
110.1			Vanderbilt Beach Road	US 41 (Tamiami Trail)	Goodlette-Frank Road	14	456	76.0%	NW-TCMA		2029	Within the Northwest TCMA; Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted; Design & CST programmed for FY 2025
111.1			Vanderbilt Beach Road	Airport Road	Livingston Road	4	956	68.1%	NW-TCMA		2023	Within the Northwest TCMA;



# **ATTACHMENT H-1**

## **ATTACHMENT H-2**



#### Attachment I

#### TCMA Report Collier County Transportation Concurrency Management System

AUIR ID	Street Name	From	То	PkHr-PkDir <sup>(1)</sup> V/C Ratio	Length	#Lanes	Lane Miles	Lane Miles @ V/C <= 1.00
14.0	Davis Boulevard	Lakewood Boulevard	County Barn Road	0.82	1.71	4	6.83	6.83
15.0	Davis Boulevard	County Barn Road	Santa Barbara Boulevard	0.69	0.75	4	3.02	3.02
16.1	Davis Boulevard	Santa Barbara Boulevard	Radio Rd.	0.28	2.62	6	15.71	15.71
16.2	Davis Boulevard	Radio Rd.	Collier Boulevard	0.53	2.32	6	13.93	13.93
20.2	Golden Gate Parkway	Livingston Rd.	I-75	0.90	1.97	6	11.8	11.82
21.0	Golden Gate Parkway	I-75	Santa Barbara Boulevard	0.59	1.01	6	6.07	6.07
22.0	Golden Gate Parkway	Santa Barbara Boulevard	Collier Boulevard	0.88	2.21	4	8.84	8.84
27.0	Green Boulevard	Santa Barbara Boulevard	Collier Boulevard	0.79	1.99	2	3.99	3.99
31.2	Collier Boulevard	Pine Ridge Road	Green Boulevard	0.83	0.88	6	5.28	5.28
<u>32.1</u>	Collier Boulevard	Green Boulevard	Golden Gate Pwky	0.64	1.06	<u>4</u>	<u>4.24</u>	4.24
32.2	Collier Boulevard	Golden Gate Pwky	Golden Gate Main Canal	0.89	1.01	4	4.04	4.04
32.3	Collier Boulevard	Golden Gate Main Canal	I-75	0.59	0.65	8	5.20	5.20
33.0	Collier Boulevard	I-75	Davis Boulevard	0.71	0.56	8	4.47	4.47
49.0	Logan Boulevard	Pine Ridge Road	Green Boulevard	0.81	0.88	4	3.53	3.53
54.0	Livingston Road	Pine Ridge Road	Golden Gate Parkway	0.45	2.60	6	15.59	15.59
55.0	Livingston Road	Golden Gate Parkway	Radio Road	0.57	1.41	6	8.49	8.49
67.2	Pine Ridge Road	Livingston Rd.	I-75	0.70	2.20	6	13.20	13.20
68.0	Pine Ridge Road	I-75	Logan Boulevard	0.93	0.99	6	5.97	5.97
70.0	Radio Road	Livingston Road	Santa Barbara Boulevard	0.84	2.00	4	7.98	7.98
71.0	Radio Road	Santa Barbara Boulevard	Davis Boulevard	0.42	1.34	4	5.36	5.36
76.0	Santa Barbara Boulevard	Green Boulevard	Golden Gate Parkway	0.73	1.70	4	6.81	6.81
77.0	Santa Barbara Boulevard	Golden Gate Parkway	Radio Road	0.70	1.40	6	8.43	8.43
78.0	Santa Barbara Boulevard	Radio Road	Davis Boulevard	0.54	1.05	6	6.32	6.32
125.0	Pine Ridge Road	Logan Boulevard	Collier Boulevard	0.67	1.88	4	7.53	7.53
					36.22		182.65	182.65

Total Lane Miles: Lane Miles <=1.00 V/C: Percent Lane Miles Meeting Standard:

182.65 182.65 100.0%

 $^{(1)}$  V/C Ratio based upon Total Traffic, including Traffic Counts + Total Trip Bank

#### Attachment I

#### TCMA Report Collier County Transportation Concurrency Management System

				PkHr-PkDir <sup>(1)</sup>				Lane Miles @
AUIR ID	Street Name	From	То	V/C Ratio	Length	#Lanes	Lane Miles	V/C <= 1.00
1.0	Airport Road	Immokalee Road	Vanderbilt Beach Road	0.72	1.97	4	7.9	7.89
2.1	Airport Road	Vanderbilt Beach Road	Orange Blossom Dr.	0.71	1.53	6	9.2	9.18
2.2	Airport Road	Orange Blossom Dr.	Pine Ridge Rd.	0.71	2.92	6	17.5	17.51
23.0	Goodlette-Frank Road	Immokalee Road	Vanderbilt Beach Road	0.80	1.80	2	3.6	3.60
24.1	Goodlette-Frank Road	Vanderbilt Beach Road	Orange Blossom Dr.	0.57	0.88	4	3.5	3.52
24.2	Goodlette-Frank Road	Orange Blossom Dr.	Pine Ridge Road	0.62	1.53	6	9.2	9.18
29.0	Gulfshore Drive	111th Avenue	Vanderbilt Beach Road	0.28	1.31	2	2.6	2.62
39.0	111th Avenue N.	Gulfshore Drive	Vanderbilt Drive	0.46	0.51	2	1.0	1.01
40.0	111th Avenue N.	Vanderbilt Drive	Tamiami Trail	0.64	1.00	2	2.0	2.01
41.1	Immokalee Road	Tamiami Trail	Goodlette-Frank Rd.	0.63	1.47	6	8.8	8.84
41.2	Immokalee Road	Goodlette-Frank Rd.	Airport Road	0.68	2.47	6	14.8	14.81
42.1	Immokalee Road	Airport Road	Livingston Rd.	0.68	1.96	6	11.8	11.79
42.2	Immokalee Road	Livingston Rd.	I-75	0.90	1.78	7	12.5	12.48
51.0	Livingston Road	Imperial Street	Immokalee Road	0.63	3.31	6	19.8	19.85
52.0	Livingston Road	Immokalee Road	Vanderbilt Beach Road	0.57	1.99	6	12.0	11.96
53.0	Livingston Road	Vanderbilt Beach Road	Pine Ridge Road	0.48	2.21	6	13.3	13.26
62.0	Old US 41	US 41 (Tamiami Trail)	Lee County line	1.07	1.57	2	3.1	0.00
63.0	Seagate Drive	Crayton Road	Tamiami Trail	0.49	0.48	4	1.9	1.93
64.0	Pine Ridge Road	Tamiami Trail	Goodlette-Frank Road	0.69	0.50	6	3.0	3.02
65.0	Pine Ridge Road	Goodlette-Frank Road	Shirley Street	0.78	0.67	6	4.0	4.05
66.0	Pine Ridge Road	Shirley Street	Airport Road	1.09	0.81	6	4.9	0.00
67.1	Pine Ridge Road	Airport Road	Livingston Rd.	0.86	2.09	6	12.56	12.56
98.0	Tamiami Trail North	Lee County Line	Wiggins Pass Road	0.67	1.67	6	10.0	10.02
99.0	Tamiami Trail North	Wiggins Pass Road	Immokalee Road	0.98	1.52	6	9.1	9.11
100.0	Tamiami Trail North	Immokalee Road	Vanderbilt Beach Road	0.61	1.51	6	9.1	9.06
101.0	Tamiami Trail North	Vanderbilt Beach Road	Gulf Park Drive	0.79	1.26	6	7.6	7.58
102.0	Tamiami Trail North	Gulf Park Drive	Pine Ridge Road	0.67	1.44	6	8.6	8.64
109.0	Vanderbilt Beach Road	Gulfshore Drive	Tamiami Trail	0.57	1.34	2	2.7	2.68
110.1	Vanderbilt Beach Road	Tamiami Trail	Goodlette-Frank Road	0.76	1.87	4	7.5	7.50
110.2	Vanderbilt Beach Road	Goodlette-Frank Rd.	Airport Road	0.66	2.40	4	9.6	9.58
111.1	Vanderbilt Beach Road	Airport Road	Livingston Rd.	0.68	3.22	6	19.3	19.30
111.2	Vanderbilt Beach Road	Livingston Rd.	I-75	0.84	1.00	6	6.0	6.00
114.0	Vanderbilt Drive	Lee County Line	Wiggins Pass Road	0.53	2.52	2	5.0	5.03
115.0	Vanderbilt Drive	Wiggins Pass Road	111th Avenue	0.99	1.49	2	3.0	2.99
117.0	Wiggins Pass Road	Vanderbilt Drive	Tamiami Trail	0.43	1.05	2	2.1	2.10
142.0	Orange Blossom Drive	Goodlette-Frank Road	Airport Road	0.39	1.35	2	2.70	2.70
143.0	Orange Blossom Drive	Airport Road	Livingston Road	0.56	1.01	2	2.02	2.02
	-		-		59,44		283.39	275.37

Total Lane Miles: Lane Miles <=1.0 V/C:

283.4 275.4 97.2%

 $^{(1)}\,\text{V/C}$  Ratio based upon Total Traffic, including Traffic Counts + Total Trip Bank

#### Attachment J FY21 Activity Report on continuing Projects under Contract/DCA/Advanced Construction (Dollars shown in Thousands)

Project		FY21
Number	SUMMARY OF PROJECTS BY NAME	Amount
60168	Vanderbilt Beach Rd Coller Blvd to 16th St	37,455
60198	Veterans Memorial PH 1	13,152
60129	Wilson Benfield	2,346
60199	Vanderbilt Beach Rd US41 to E of Goodlette	996
	Total	53,949

\*\*As of 6/30/21

## **COUNTY STORMWATER MANAGEMENT SYSTEM**

## **CONTENTS**

- COUNTY STORMWATER MANAGEMENT SYSTEM – SUMMARY
- EXISTING CANAL SYSTEMS AND CONTROL STRUCTURES OVERVIEW
- COUNTYWIDE STORMWATER CANAL SYSTEM MAP
- COUNTYWIDE STORMWATER CONTROL STRUCTURES MAP
- PROPOSED STORMWATER MANAGEMENT 5-YEAR WORK
   PROGRAM
- STORMWATER MANAGEMENT PROJECT DESCRIPTIONS
- STORMWATER MANAGEMENT PROJECT LOCATION MAP
- ATTACHMENT A: STORMWATER MANAGEMENT PROJECT PLANNING PROCESS
- ATTACHMENT B: SYSTEM INVENTORY AND GIS DATABASE REPORT
- ATTACHMENT "C": TABLES

TABLE 2 – CURRENT CANAL SYSTEM INVENTORYTABLE 3 – CANAL AND DITCH CONDITION RATING SYSTEMTABLE 4 – CURRENT CONTROL STRUCTURE INVENTORYTABLE 5 – CONTROL STRUCTURE INSPECTION RATING<br/>SYSTEM

• ATTACHMENT "D": BASINS AND SUBBASINS REPORT: FIGURE 4– COLLIER COUNTY BASINS MAP FIGURE 5– COLLIER COUNTY DISCHARGE RATE MAP TABLE 5– COLLIER COUNTY BASINS

Collier County 2021 Annual Update and Inventory Report on Public Facilities

### 2021 AUIR STORMWATER MANAGEMENT SYSTEM FACILITIES SUMMARY

Facility Type: County Maintained System of Stormwater Managemer (Category A)	nt C	anals & St	ructures
Level of Service (LOS) Standard: Varies by individual watershed			
Existing System within Collier County:			
Based on current Collier County GIS Database			
Existing Major Canals		408.1	Miles
System Maintained by Collier County:			
Based on current Collier County GIS Database			
Existing Major Canals		148.1	Miles
Proposed Reconstruction/Additions within 5-Year Planning Period		2.3	Miles
Existing Major Water Control Structures		87	
Proposed Replacement/Additional Structures within 5-Year Planning Period		3	
Stormwater Program Summary FY 2022 thru FY 2026			
Recommended Work Program	\$	205,730	,000
Recommended Revenues	\$	86,855	,000
Five-Year Surplus or (Deficit)	\$	(118,875	,000)

Based on projected funding availability and does not reflect the entirety of unmet stormwater needs. FY22 outlays actual proposed budget, subsequent years are proposed/estimated and are subject to change.

#### 1. Revenue Sources FY22-26

Roll Forward	\$ (9,668,000)
General Fund (001)	\$ 13,390,000
General Fund (111)	\$ 15,000,000
General Fund (310)	\$ 11,318,000
Anticipated Grants	\$ 4,125,000
Interest	\$ 235,000
Neg 5% Revenue Reserve	\$ (15,000)
325 Reserves	\$ 0
Debt Funding	\$ 52,470,000
Total	\$ 86,855,000

#### 2. Supplemental Revenue Sources

None Required

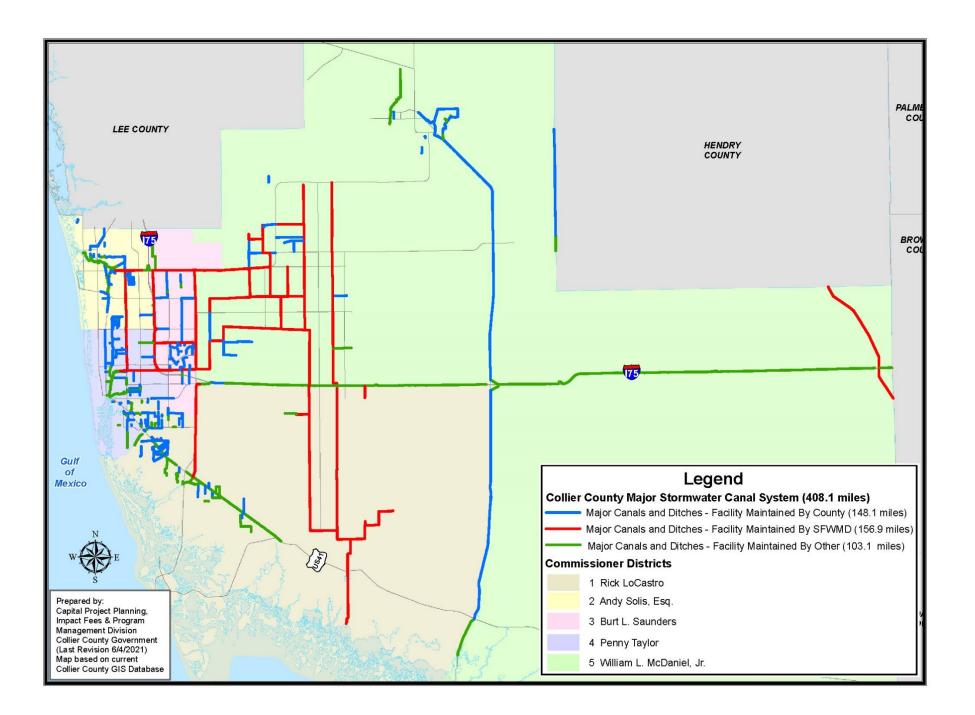
#### **Recommended Action**

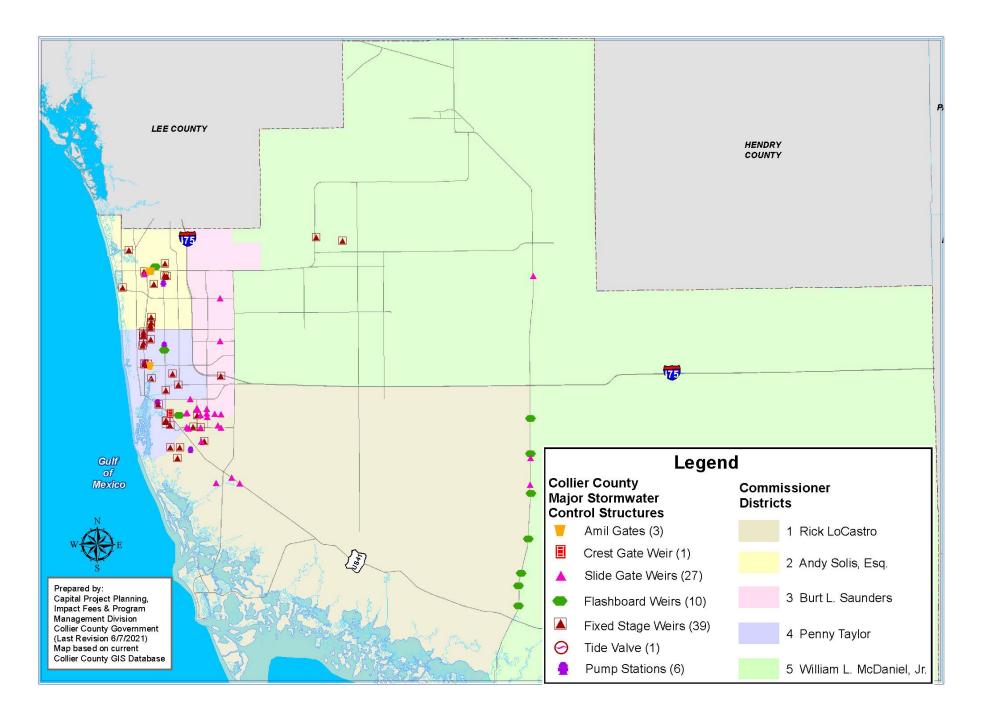
That the BCC direct the County Manager or his designee to include County stormwater projects appearing on the proposed "Stormwater Five - Year Work Program," (Table 1) as detailed in the attached Project Descriptions and prioritized by the Stormwater Project Prioritization Process in the next Annual CIE Update and Amendment with the application of revenues as outlined in the Program Revenue section of Table 1; and that it approves the proposed 2021 Stormwater Management System AUIR and adopt the CIE Update for FY2021/22 – FY2025/26.

#### EXISTING MAJOR CANAL SYSTEMS AND CONTROL STRUCTURES

Currently, the County maintains 148.1 miles of canal (including ditches) and 87 stormwater control structures, which includes amil, crest, and slide gate weirs, flash board and fixed stage weirs, pump stations and tide valve. Figures 1 and 2 show the locations for all major canals (including ditches) and stormwater control structures maintained by the County, respectively.

The County, working collaboratively with South Florida Water Management District, provides easements over the primary and secondary watercourses, in accordance with the Cooperative Agreement between Collier County and South Florida Water Management District. Table 3 identifies control structures maintained by Collier County.





#### 2021 AUIR FACILITY SUMMARY FORM – Stormwater Management

Facility Type: County Maintained System of Secondary Stormwater Management Canals & Structures (Category A)

#### Table 1 - FY 22 - FY 26

Plan Year		1		2		3		4		5		5 - Year
Fiscal Year			2	FY 2	3	FY 2	4	FY 2	5	FY 2	6	Totals
Proj. No.	Countywide Programs, Planning & Maintenance											
51144	Stormwater Feasibility and Preliminary Design	388	Р	400	Р	400	Р	400	Р	400	Ρ	1,988
60194	Stormwater Maintenance	300	M	325	M	325	м	325	м	325	Δ	1,600
60121	NPDES MS4 Program	27	P	50	Р	50	Ρ	50	Р	50	Ρ	227
50209	SW Outfall Replacements	50	м	100	м	150	М	200	м	250	м	750
50210	SW Pipe Replacements	50	M	100	M	150	м	200	M	250	м	750
	Infrastructure Maintenance Projects											
50177	Stormwater Channel Dredging	1,000		1,500		2,000		2,000		2,000		8,500
50213	Mangrove Street Seawall	400	С									400
51029	GG City Outfall Replacements	3,000	DC	3,000	DC	6,000	DC	6,000	DC	6,000	DC	24,000
60224	Lely Golf Estates	2,000	D	2,000	DC	2,000	DC	2,000	DC	2,000	DC	10,000
60126	Pine Ridge Stormwater Improvements**			6,000	DC							6,000
50169	Bayshore Gateway CRA	100	PD	100	PD	100	PD	100	PD	100	PD	500
60234	Palm River SWIP (PUD)	2,000	С	2,000	С	2,000	С	2,000	С	2,000	С	10,000
50160	Flood Automation	750	DC	750	DC	500	DC	500	DC	500	DC	3,000
50180	Canal Easements	250	R	250	R	250	R	250	R	250	R	1,250
50200	Poinciana Village	2,000	DC	2,000	С	1,000	С					5,000
60238	Plantation Island Canals/Ditches	1,465	С									1,465
	System Capacity Projects											
60143	Immokalee Stormwater Improvements	4,500	DRC	5,000	DRC	5,000	DRC	5,000	DRC	5,000	DRC	24,500
60139	Naples Park	10,200	DC			8,400	DC	4,200	DC			22,800
60142	Ridge Street / West Goodlette			6,500	С	6,500	С	6,500	С	6,500	С	26,000
60195	Harbor Lane Brookside	1,000	С	1,000	С							2,000
33554	RESTORE	1,000	PD	1,000	PD	5,000	PD	1,000	PD	1,000	PD	9,000
60246	Lake Park Flowway	1,000	D	500	R	2,000	С					3,500
	Water Quality Improvement Projects											
60102	Gordon River Extension	8,000	DRC	13,000	DRC	10,000	DRCA	5,000	DC	5,000	DC	41,000
60196	Griffin Road Area	500	Α	1,000	С							1,500
	Total Program Cost	39,980		46,575		51,825		35,725		31,625		205,730

\*\* Pending Feasability

P = Planning, D = Design & Permitting, R = Right-of-Way Acquisition, C = Construction, M = Maintenance/Monitoring, A = Advance Funding

#### Program Revenue (Fund 325)

Plan Year	1		2		3		4		5		5 - Year
iscal Year		FY 22		FY 23		FY 24		5	FY 26		Totals
New Budget From 001	2,678		2,678		2,678		2,678		2,678		13,390
New Budget From 111	3,000		3,000		3,000		3,000		3,000		15,000
Transfer from 310	11,318										11,318
Anticipated Grants			4,125								4,125
Interest	35		50		50		50		50		235
Neg 5% Revenue Reserve	(3)		(3)		(3)		(3)		(3)		(15)
Carry Forward	(9,668)										(9,668)
Debt Funding 327	32,620		19,850								52,470
Unmet Funding Needs			16,875		46,100		30,000		25,900		118,875
Total Program Revenue	39,980		46,575		51,825		35,725		31,625		205,730

Notes: 1. All numbers are in thousands of dollars.

#### FY 22 – 26 PROJECT DESCRIPTIONS

#### Countywide Programs, Planning & Maintenance

#### Stormwater Feasibility and Preliminary Design (P/N 51144)

This project includes funding for long range strategic planning for future program progression, capital improvement project identification and prioritization, specific basin issue evaluation and funding appropriation analysis. Individual Project Feasibility Studies will be funded from this Project and guided by the project ranking criteria established in the Planning process identified in Attachment A.

#### Stormwater Maintenance (P/N 60194)

This project includes funding of various maintenance activities associated with certain existing county stormwater management assets such as the Freedom Park water quality treatment system, Serenity Park's surface water management area, and the Wiggins Pass Road area surface water flow way.

#### NPDES MS4 Program (P/N 60121)

Funding within this project covers continued development of and compliance with the federally mandated National Pollutant Discharge Elimination System (NPDES) permitting program for the County operated Municipal Separate Storm Sewer System (MS4).

#### Stormwater Outfall Replacements (50209)

Funding within this project covers replacement of stormwater outfalls within the Collier County Stormwater Management System.

#### Stormwater Pipe Replacements (50210)

Funding within this project covers replacement of stormwater pipe within the Collier County Stormwater Management System.

#### Infrastructure & Capacity Projects

#### 1. Stormwater Channel Dredging (P/N 50177)

The proposed stormwater improvement project includes a survey and design of the dredge area to determine the silt removal quantity, develop spoil handling and disposal methodology, obtain all necessary permits, communicate/coordinate with all affected property owners, and dredging of the delineated areas of silt built up of identified areas within the Collier County Stormwater Management System.

#### 2. Mangrove Street Seawall (P/N 50213)

The project is for the removal of a collapsed dead-end canal vertical concrete seawall and replacement with a new vertical concrete seawall and cap with an 18-inch stormwater outfall.

#### 3. Golden Gate City Outfall Replacements (P/N 51029)

Project is to improve collection treatment and conveyance urban stormwater runoff by restoring an upgrading antiquated system installed in early 1960s within the four (4) square mile area known as Golden Gate City (GGC). The GGC canal system flows into Naples bay via the Main Golden Gate Canal. The project includes the replacement and improvements to existing aging infrastructure such as the removal of old catch basins replaced with ditch

bottom inlets with grates to catch debris, the addition of sumps at catch basins, re-grading and sodding of swales to prevent erosion providing water quality improvement. Over a \$50 million program. Individual projects to be delivered as time and budget allow.

#### 4. Lely Golf Estate (P/N 60224)

This is multiyear improvement project being developed in coordination with the Public Utilities Department to include stormwater management, water and wastewater improvements within the Lely neighborhood community. This joint effort will reduce construction costs by capitalizing on economy of scale and avoiding multiple disturbances in the neighborhood.

#### 5. Pine Ridge Stormwater Management Improvements (P/N 60126)

A feasibility study/master plan was completed in 2017 to serve as a guide for this area's future projects. Improvements in the Pine Ridge Estates Area include replacement of existing aging infrastructure such as catch basins, culverts and re-grading and sodding of roadside swales.

#### 6. Bayshore Gateway CRA (P/N 50169)

A preliminary engineering study to identify design alternatives, constraints, and opportunities to improve the stormwater management system within the Bayshore Gateway CRA Area. The complete comprehensive preliminary engineering study will provide the basis upon which stormwater improvements will be designed.

#### 7. Palm River Stormwater Improvement (P/N 60234)

This is multiyear improvement project being developed in coordination with the Public Utilities Department to include stormwater management, water and wastewater improvements within the Palm River community. This joint effort will reduce construction costs by capitalizing on economy of scale and avoiding multiple disturbances in the neighborhood.

#### 8. Flood Automation (P/N 50160)

This is one of many future initiatives being programmed as resources and funding becomes available. Current projects involving work on several water flow and level control structures (weirs) are in various stages of implementation. "Work" includes planning and design of powered weir gate operations and remote operation capability. All new and rehabilitated weirs with manually adjustable control gates are being considered for this potential future automation upgrade.

#### 9. Canal Easements (P/N 50180)

Funding within this project covers necessary easement acquisitions and processes in order to properly maintain the existing stormwater management system and future stormwater management improvement projects.

#### 10. Poinciana Village

The stormwater improvement project will include stormwater management improvements within the Poinciana Village community, based on a preliminary engineering study that has identified design alternatives, constraints, and opportunities to improve the stormwater management system within Poinciana Village.

#### 11. Plantation Island Canals/Ditches (P/N 60238)

Dredging of the Plantation Island Area waterways as a joint effort with Collier County Stormwater Management and Florida Department of Environmental Protection.

#### 12. Immokalee Stormwater Improvements (P/N 60143)

This project includes an update to the Immokalee Stormwater Master Plan, future stormwater treatment pond sighting feasibility analysis, coordination with the Lake Trafford Management Group, and the Immokalee Water and Sewer District. Future stormwater management improvement projects, as prioritized by the master plan update, will be fully coordinated and vetted with the Immokalee Community Redevelopment Agency.

#### 13. Naples Park Area Stormwater Improvements (P/N 60139)

In coordination with the Public Utilities Division, this project includes water main and sanitary sewer collection system replacements, as well as roadside stormwater management system improvements. Roadside stormwater improvements are occurring in conjunction with utility replacement work on all east-west streets in the Naples Park Subdivision. This is a multi-year, multi-phase project.

#### 14. West Goodlette-Frank Road Area Stormwater Improvement (P/N 60142)

Project planning and design has been completed, construction is currently underway, in coordination with the City of Naples Wastewater Collection System improvements to address stormwater (flooding) problems and existing septic system failures during periods of high rainfall on several streets between Goodlette-Frank Road and US-41. Stormwater runoff from the area flows east into the upper Gordon River then to Naples Bay. Work will include water quality improvements designed to decrease nutrient loading of stormwater runoff conveyed to the sensitive impaired receiving waters of Gordon River and Naples Bay. All phases north of the existing project will convert over 900 septic tanks to sewer conversions in addition to current project.

#### 15. Harbor Lane Brookside (P/N 60195)

Harbor Lane is a street in the Brookside neighborhood which needs surface and possibly base refurbishment. The street's stormwater management system has reached the end of its life span and needs reconstruction as well. A new stormwater management system is currently under design. The design includes new culverts and catch basins as well as necessary water quality improvements. The Brookside neighborhood discharges stormwater into Naples Bay, an impaired waterbody.

#### 16. RESTORE (P/N 33554)

This is a new, large, comprehensive watershed improvement initiative currently in a conceptual planning stage. The initiative includes development of a suite of projects to be competed in phases, all with the goal of rehydrating and restoring historic, wet season surface water overland flow principally within the Belle Meade region of Collier County. Project concepts and a multiyear plan have been submitted to the state and the US Department of the Treasury to gain authorization for use of RESTORE Act funds to further the initiative.

#### 17. Lake Park Flowway (P/N 60246)

The project consist of creating a stormwater management overland flow way system to provide flood protection, attenuation and water quality treatment of stormwater flows from residential and agricultural areas north of this flow way prior to discharging into the Outstanding Florida Waters Rookery Bay National Estuarine Research Reserve.

#### 18. Gordon River Stormwater Improvements (P/N 60102)

The Gordon River watershed consists of approximately 4,432 acres and is bounded by the Crossings to the north, the Conservancy of Southwest Florida to the south, Airport Pulling Rd to the east, and US 41 to the west. Various areas throughout the Gordon River Extension (GRE) basin experience high water inundation conditions during heavy rainfall events. These areas include the Country Club of Naples, Forest Lakes, Pine Ridge Industrial Park, Poinciana Village, Golden Gate Parkway, and the properties west of GF Rd, north of Golden Gate Parkway, and south of Pine Ridge Rd. A hydrologic/hydraulic modeling analysis was performed on the basin to determine various solutions to eliminate or effectively reduce the inundation conditions. The existing conditions model indicated a poorly maintained stormwater infrastructure serving the GRE basin. After the modeling and analysis of various proposed scenarios, it is recommended to implement the following eight improvements to relieve flooding scenarios throughout the basin; the Golden Gate Parkway AMIL Gate Weir Replacement, Goodlette-Frank Supplemental Outfall, Freedom Park Stormwater Pump Station, Freedom Park Bypass Ditch & Spreader Swale, Goodlette-Frank Ditch Improvements, Solana/Burning Tree Box Culvert Extension, Maintenance Access Road/ Seawall, and the Forest Lakes Rock Weir Replacement.

The implementation of the proposed improvements provided a flood area reduction of approximately 400 acres within the basin.

#### 19. Griffin Road Area Stormwater Improvements (P/N 60196)

The Griffin Road Area Stormwater Improvement Project is located near the southwestern terminus of Griffin Road in the East Naples area of Collier County off of US41 (Tamiami Trail) and Barefoot Williams Road. The project includes construction of a water quality treatment area on Rookery Bay National Estuarine Research Reserve property. The focus of the project is to provide water quality treatment facilities and an adequate stormwater outfall for the area to reduce frequency of flooding.

#### COLLIER COUNTY STORMWATER MANAGEMENT PROJECT PLANNING PROCESS

**Objective**: To adequately identify and prioritize stormwater management projects to include in the County's AUIR/5-year Plan and Budgeting process.

**<u>Purpose</u>**: To provide the Board County Commissioners with a general outline of the ongoing Project Planning and Prioritization Process.

**Considerations:** The Stormwater Management Project Planning Process identifies and prioritizes potential projects for advancement into the AUIR/5-year Plan and annual Stormwater Management budget process. Typically, project feasibility studies are completed first. Studies are then being used to rank the projects for eventual funding and construction within the County's AUIR/5-year Plan and annual budget process. The feasibility studies will also provide staff with better project cost estimates for preparing budget requests. Input from external stakeholders will also be used to recommend projects for the AUIR/5-year Plan.

#### Plan Elements:

#### Potential Project Database

Staff has developed a Comprehensive Stormwater Needs database that contains all potential future stormwater improvement projects. Projects are provided from three main sources: customer complaint database, staff knowledge and Planning Studies. This database is periodically updated to reflect new information as projects are implemented and sources provide new potential projects.

#### > Project Profiles

Staff selects potential projects from the database to gather detailed information to develop Project Profiles. Project Profiles are based by first determining the Objective of the Project, Benefit Area and Preliminary Conceptual Cost. Once those three basic components are defined, staff can provide information regarding affected acreage and population, per parcel cost, per acre cost, per capita cost, and per \$1,000 of assessed value cost. A narrative explaining the objective, purpose and needs of the project is also provided in the Project Profile.

#### > Scoring Committee and Project Ranking Criteria

A Stormwater Planning Process Committee has been established to review and score the Project Profiles. The seven (7) committee members, all county staff, come from different departments such as Stormwater, Comprehensive and Floodplain Management Planning, Engineering, Road Maintenance, and Pollution Control. Scoring is based on four major aspects: Health and Safety, Project Feasibility, Project Support, and Environmental Benefits.

#### Feasibility Studies

Top ranked Project Profiles are selected for Feasibility Studies which provide more detailed and secured information regarding the project's cost, life, and stages. Project Profiles are updated with information from the feasibility studies.

The Scoring Committee has ranked ten (10) projects; some current and ongoing, and some conceptual projects. The ranking and evaluation process and input from the committee has been deemed extremely useful and valid. As such, ranking information is considered and utilized in this current AUIR/5-year Plan.

#### SYSTEM INVENTORY AND GIS DATABASE REPORT

**<u>Objective</u>**: To maintain a complete and current inventory of all existing county-maintained stormwater and surface water management system assets.

<u>**Purpose:**</u> To provide the Board of County Commissioners with an update on progress made to date with establishment of the Stormwater Management System Inventory GIS Database

**Considerations:** For the past several years staff has been identifying existing stormwater management assets and sequentially building the stormwater management system geodatabase. The database currently includes the main canals and ditches, water level, and flow control structures and arterial roadway drainage infrastructure. Several hundred miles of collector and minor roadway swales, culverts and inlets are yet to be added to the dataset. They represent a majority of stormwater assets maintained on a day to day basis. All the water control structures are field verified and have conditional ratings. Field verification is ongoing for the arterial roadway stormwater management infrastructure.

Current data collection is being coordinated with Operation and Maintenance staff (O&M) activities to the greatest extent possible. When data collection technicians log entries associated with geodatabase objects in advance of a scheduled O&M activity, subsequent O&M activity entries can then be connected to geodatabase objects. In this way, a work history for each asset is created that is now associated to geodatabase objects. Creating a work history for each asset can result in high level reporting such as required by the state for the County National Pollutant Discharge Elimination System Municipal Separate Storm Sewer System (NPDES MS4) Permit, Permit # FLR04E037. Some examples are pesticide sprayers accounting for chemical usage including location and acreage and sediment removal tied to asset type (inlet, culvert, and swale).

Other information being collected and added to the database includes information collected during the right-of-way permitting process, roadside assets in neighborhoods, roadside improvements completed as part of neighborhood stormwater improvements, remedial work or existing condition assessments (surveys), roadway outfalls to canals or tidal waters, secondary county roadway swales, culverts, inlets and manholes including all Golden Gate Estates roads and the urban county roads, and outfalls from private developments discharging into the County maintained system.

The existing Stormwater Management System Inventory GIS Database is substantial, functioning, and has become an important tool used daily by O&M staff as well as Stormwater Planning staff. All the data, maps and asset tables produced for this AUIR were generated using the database. The database is being used to capture information that is essential for mandated reporting to the state as part of the County's NPDES MS4 Permit requirements, as well as reporting for the County's participation in the National Flood Insurance Program Community Rating System (NFIP CRS).

#### Table 3: Existing Collier County Stormwater Control Structures

Weir - Fixed Stage (39)

No	- AMIL Gate Structure ID	
1	GRE-00-S0100	Facility Name Gordon River
2	EBC-00-S0110	Coco East
3		Coco West
-		
	- Crest Gate	
No	Structure ID	Facility Name
4	HCB-00-S0144	Haldeman Creek
Neir	- Slide Gate	(27)
No	Structure ID	Facility Name
5	LMB-17-S0300	Wing South West
6	LMB-16-S0120	Wing South # 2
7	LMB-16-S0140	Wing South # 1
8	LCB-09-S0400	County Barn Road
9	BRN-00-S0110	Sunniland
10	D1C-00-S0120	Harvey #1
11	HEC-04-S0100	Henderson # 4
12	HEC-05-S0100	Henderson # 5
13	HEC-03-S0100	Henderson # 3
14	LCB-00-S0150	Royal Wood
15	D1C-00-S0150	Harvey # 2
16	LCB-00-S0230	Santa Barbara # 3
17	LCB-00-S0210	Santa Barbara # 2
18	LCB-00-S0190	Santa Barbara # 1
19	LCB-00-S0122	Lely Main at Doral Circle
20	LCB-20-S0230	Whitaker Road Weir
21	LMB-00-S0150	Warren Street Weir
22	LCB-01-S0140	Crown Pointe
23	HCB-00-S0220	Lely Branch Halderman Creek Splitter
24	LCB-01-S0174	Davis Blvd Canal
25	C4C-00-S0110	Eagle Creek
26	LCB-16-S0290	Wing South Santa Barbara Splitter
27	LCB-01-S0106	Lely Branch Canal
28	LCB-09-S0446	Cope Lane Pond
29	PRC-00-S0140	Pine Ridge Canal Weir # 1
30	BRC-00-S0370	SR-29_6a
31	BRC-00-S0380	SR-29_6b
Neir	- Flashboar	d (10)
No	Structure ID	Facility Name
32		Palm River Weir
	GRE-04-S0110	
34	HCB-00-S0200	Lakewood County Club Weir
35	BRC-00-S0120	SR29-1
36	BRC-00-S0120	SR29-2
37	BRC-00-S0300	SR29-3
38		
	BRC-00-S0320	SR29-4
39	BRC-00-S0346	SR29-5
	BRC-00-S0390	SR29-7
40	DDC 00 C0440	
41	BRC-00-S0410	SR29-8
41	BRC-00-S0410	
41	•	

#### Structure ID **Facility Name** No ARN-02-S0110 Four Seasons # 1 Weir 43 44 ARN-02-S0120 Four Seasons # 2 Weir 45 CRB-06-S0150 Euclid Ave Outfall 46 GRE-00-S0124 Gordon River Extension (Rock Weir) 47 GRE-01-S0510 Goodlette Road Canal #2 48 GRE-01-S0480 Goodlette Road Canal #1 49 GRE-03-S0100 Freedom Park Overflow (Bypass) Weir 50 GRE-36-S0100 FP Spreader Berm 51 GRE-36-S0120 FP Wetlands Weir 52 GRE-36-S0240 FP Waterfall 53 GRE-39-S0100 West Lake Outfall 54 GRE-41-S0130 Twin Lakes Outfall GRE-44-S0140 Sperling Lake Outfall 55 56 GTB-04-S0110 Gateway Triangle US41 Outfall 57 GTB-04-S0120 Gateway Triangle Lake Weir 58 HCB-01-S0100 Lake Kelly (Rock Weir) 59 HCB-02-S0106 Lake Avalon 60 LCB-00-S0050 Lely Main Canal Spreader Weir 61 LCB-15-S0100 Rattlesnake Road Weir 62 LMB-00-S0100 Naples Manor West Outfall Spreader Weir 63 LMB-00-S0120 Naples Manor West Outfall Weir 64 LMB-15-S0100 RH Slough Weir 1 Naples Manor 65 MGG-12-S0120 Fairgrounds 66 MGG-14-S0100 Naples Production Park (North) 67 MGG-16-S0140 Radio Road MGG-19-S0020 Bollt Canal Weir 68 69 RCB-02-S0110 Hazel Road Weir 70 RCB-04-S0110 Naples Production Park (South) 71 WBB-01-S0110 Wiggins Pass Weir 72 WBC-02-S0210 Victoria Park West Outfall 73 GRE-09-S0100 PRIP # 1 74 GRE-10-S0100 PRIP # 2 75 GRE-12-S0100 PRIP # 3 76 GRE-17-S0114 PRIP # 4 77 NPS-00-S0110 Naples Park Outfall 78 HCB-02-S0110 Poplar Way Outfall 79 LCB-21-S0110 Riviera Golf Estates Pond Weir Lake Kelly Outfall Weir 80 LCB-20-S0110 81 PRC-00S140 Pine Ridge Canal (Rock Weir) Pump Station (6)

No	Structure ID	Facility Name
1	ARS-01-S0100	Hawks Ridge Pump Station
2	ARN-19-S0100	Victoria Park Pump Station
3	LMB-07-S0100	Lely Wetland Pump Station
4	GRE-36-S0280	FP Goodlette Rd. Pump Station
5	GRE-42-S0130	FP Gordon River Pump Station
6	GTB-13-S0170	Gateway Triangle Pump Station

Prepared by: Capital Project Planning, Impact Fees & Program Management Divisio (Last Revision 6/7/2021)

#### **BASINS AND SUB-BASIN REPORT**

**<u>Objective</u>**: To guide the County's Stormwater Management Program by utilizing a watershed management approach.

**<u>Purpose</u>**: To provide a general update on the basins/watersheds used for water resource management and planning within the County.

**Considerations:** The Stormwater Management Program began a new approach to water resource management with the BCC's acceptance of the County Watershed Management Plan on December 13, 2011. The Plan provides assessment and management information for geographically defined watersheds including: analysis, actions, participants, and resources related to developing and implementing the Plan. Understanding issues on a basin by basin level allows for better quantitative analysis and program planning. The Board directed staff to implement the Plan as funding and resources became available. Staff continues to follow that directive when initiating Plan recommendations.

There are currently 51 basins in the Stormwater Management GIS database. Since 1990 (Ord. 90-10), the County has had a maximum allowable post-development stormwater runoff discharge rate of 0.15 cubic feet per second (cfs) per acre for all basins, with six (6) exception areas (basins) ranging from 0.04 to 0.13 cfs per acre. These more restrictive rates were established through modeling efforts that demonstrated the need to restrict flows from adjacent lands to the receiving canals. Stormwater discharge rates are limited so the rate at which runoff leaves a developed site will not cause adverse off-site (typically downstream) impacts.

In the development of the Watershed Management Plan (WMP), computer modeling was used to determine the maximum flow that can be conveyed by the various water management canal segments. Results from that effort indicated that various segments of the primary and secondary water management systems do not have the capacity to handle large storm events. Expansion or enlargement of this system to create additional system capacity is not a viable strategy for managing stormwater flows. One means of addressing this limited capacity is to restrict the maximum flow in the associated basins that feed into the canals. The WMP included recommendations to reduce the maximum allowable post-development discharge rates in several basins.

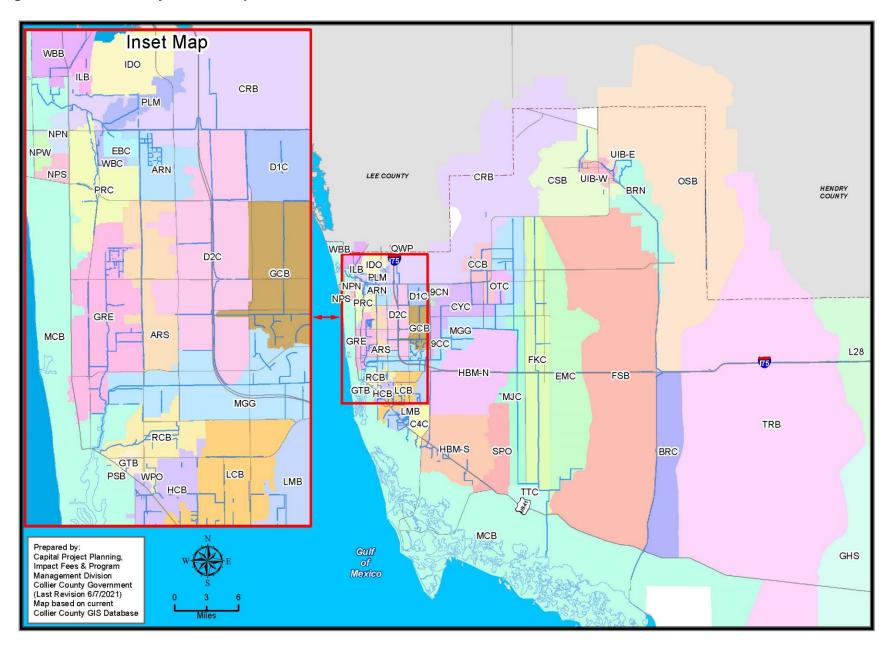
In addition to these recommendations in the WMP, two additional detailed stormwater management master plans, developed jointly by the South Florida Water Management District and the County for the Belle Meade and Immokalee areas, recommended further limiting the discharge rates for four (4) basins/sub-basins. Conditions may worsen in the future unless management actions are implemented to control the impact of subsequent changes to land use. In total, reducing maximum allowable post-development discharge rates in sixteen (16) basins/sub-basins will ensure adequate flood protection levels of service.

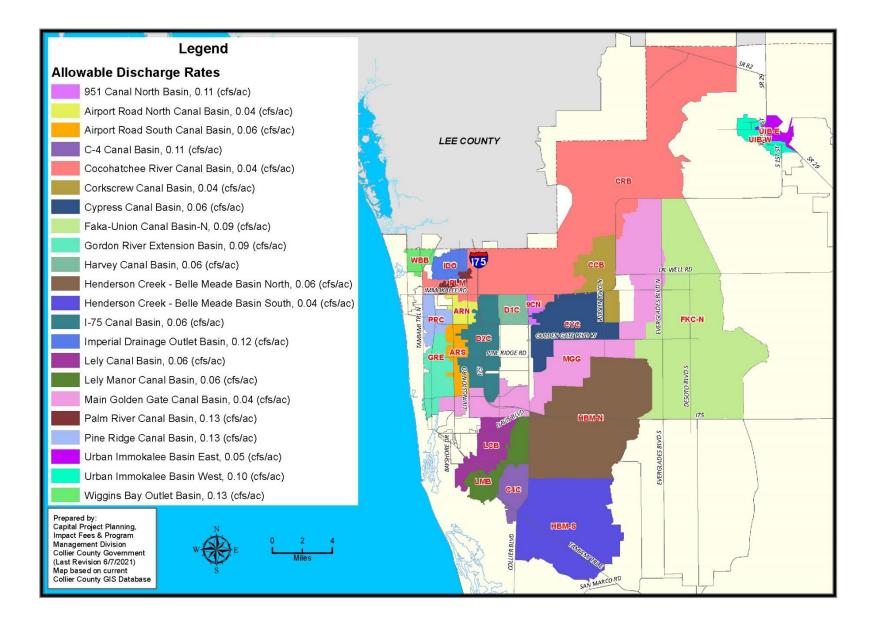
A feasibility study and impact analysis was completed to examine the effects of implementation of the discharge rate restrictions. Staff fully vetted the new restricted discharge rates with the Development Services Advisory Committee, the Collier County Planning Commission and, the South Florida Water Management District. The new rates were then approved by the Board of County Commissioners on June 13, 2017 and became effective on August 4, 2017.

This report includes a listing of all basins with their respective acreage (Table 5); a map depicting all basins within the County (Figure 4); and, a map depicting the twenty-two (22) basins that have restricted stormwater discharge rates (Figure 5).

#### **Basins and Discharge Rates**

Specific Discharge Limitation Basins		<u>Rate</u>
1	Airport Road North Canal Basin	0.04 cfs/acre
2	Airport Road South Canal Basin	0.06 cfs/acre
3.	Cocohatchee Canal Basin	0.04 cfs/acre
4.	Lely Canal Basin	0.06 cfs/acre
5.	Harvey Canal Basin	0.06 cfs/acre
6.	Wiggins Bay Outlet Basin	0.13 cfs/acre
7.	Henderson Creek - Belle Meade Basin North	0.06 cfs/acre
8.	Henderson Creek - Belle Meade Basin South	0.04 cfs/acre
9.	Immokalee Master Basin East	0.05 cfs/acre
10.	Immokalee Master Basin West	0.10 cfs/acre
11.	951 Canal North Basin	0.11 cfs/acre
12.	C-4 Canal Basin	0.11 cfs/acre
13.	Corkscrew Canal Basin	0.04 cfs/acre
14.	Cypress Canal Basin	0.06 cfs/acre
15.		0.09 cfs/acre
16.		0.09 cfs/acre
17.	I-75 Canal Basin	0.06 cfs/acre
18.		0.12 cfs/acre
19.	Lely Manor Canal Basin	0.06 cfs/acre
20.	Main Golden Gate Canal Basin	0.04 cfs/acre
21.	Palm River Canal Basin	0.13 cfs/acre
22.	Pine Ridge Canal Basin	0.13 cfs/acre





	Basin Initials	Basin Name	Area (Acres)
1	9CC	951 Canal Central Basin	834
2	9CN	951 Canal North Basin **	826
3	ARN	Airport Road North Canal Basin **	1,717
4	ARS	Airport Road South Canal Basin **	3,124
5	BRC	Barron River Basin	27,635
6	BRN	Barron River Canal Basin (North)	16,873
7	C4C	C-4 Canal Basin **	3,581
8	CRB	Cocohatchee River Canal Basin **	90,396
9	ССВ	Corkscrew Canal Basin **	6,466
10	CSB	Corkscrew Slough Basin	28,016
11	CYC	Cypress Canal Basin **	10,880
12	EBC	East Branch Cocohatchee	382
13	FSB	Fakahatchee Strand Basin	146,611
14	FKC	Faka-Union Canal Basin **	35,581
15	GTB	Gateway Triangle Basin	272
16	GHS	Gator Hook Strand Basin	262,969
17	GRE	Gordon River Extension Basin **	5,060
18	GCB	Green Canal Basin	5,082
19	НСВ	Haldeman Creek Basin	1,830
20	D1C	Harvey Canal Basin **	2,478
20	HBM-N	Henderson Creek - Belle Meade Basin North **	31,134
22	HBM-N	Henderson Creek - Belle Meade Basin North	24,395
22	D2C	I-75 Canal Basin **	8,489
23	IDO	Imperial Drainage Outlet Basin **	2,528
24	ILB	Imperial West Landmark FPL Basin	2,328
25	L28	L-28 Tieback Basin	118,960
20	LZ8	Lely Canal Basin **	5,856
27	LCB	Lely Manor Canal Basin **	5,302
		Main Golden Gate Canal Basin **	
29 30	MGG EMC	Main Golden Gate Canal Basin	29,379
31	MJC		43,772
		Miller Canal Basin	16,086
32	MCB	Miscellaneous Coastal Basins	189,058
33	NPN	Naples Park North Basin	429
34	NPS	Naples Park South Basin	352
35	NPW	Naples Park West Basin	279
36	OSB	Okaloacoochee Slough Basin	147,148
37	OTC	Orange Tree Canal Basin	2,029
38	PLM	Palm River Canal Basin **	982
39	PSB	Palm Street Basin	65
40	PRC	Pine Ridge Canal Basin **	2,664
41	QWP	Quail West Phase II	319
42	RCB	Rock Creek Basin	1,792
43	SPO	Seminole Park Outlet Basin	10,752
44	TTC	Tamiami Trail Canal Basin	4,611
45	TRB	Turner River Canal Basin	316,480
46	UIB-E	Urban Immokalee Basin East **	1,690
47	UIB-W	Urban Immokalee Basin West **	2,459
48	WBC	West Branch Cocohatchee River Basin	249
49	WBB	Wiggins Bay Outlet Basin **	2,308
50	WPO	Winter Park Outlet Basin	173

# COUNTY WATER - SEWER DISTRICT – POTABLE WATER SYSTEM

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   INTRODUCTION
- LEVEL OF SERVICE (LOSS) STANDARD ASSESSMENT FOR SERVICE AREA (TABLE, NOTES
- COLLIER COUNTY WATER-SEWER DISTRICT CURRENT AND FUTURE POTABLE WATER SERVICE AREAS (MAP)
- COLLIER COUNTY WATER-SEWER DISTRICT WATER
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- COLLIER COUNTY WATER-SEWER DISTRICT SYSTEM UTILIZATION AND DIMINISHING CAPACITY REPORT ("CHECKBOOK")
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Collier County 2021 Annual Update and Inventory Report on Public Facilities

### 2021 AUIR FACILITY SUMMARY POTABLE WATER SYSTEM FACILITIES

Facility Type: Collier County Water-Sewer District - Potable Water System Facilities

Level	of Se	rvice S	Standard:	
	0.00			-

130 gallons per capita day (gpcd)<sup>(1)</sup>

Capacity:Total Permitted Treatment Capacity, FY 22Total Operational Treatment Capacity, FY 22Required Treatment Capacity, FY 22Total Permitted Treatment Capacity, FY 31Total Operational Treatment Capacity, FY 31Required Treatment Capacity, FY 31Required Treatment Capacity, FY 31		52.00 MGD 50.00 MGD 38.43 MGD 53.88 MGD 51.88 MGD 46.22 MGD
Expenditures FY22-FY26		(2)
Debt Service		\$64,846,000
Expansion Related Projects - Other		\$47,207,000
Replacement & Rehabilitation Projects - Other		\$176,910,000
Departmental Capital		\$2,861,000
Reserve for Contingencies - Replacement & Rehabilitation Projects		<u>\$16,253,000</u> <sup>(3)</sup>
	TOTAL	\$308,077,000
Existing Revenue Sources FY22-FY26		
Water System Development Fees / Impact Fees		\$38,750,000
Bonds		\$54,707,000
Cares Act Funding		\$3,000,000
Water Capital Account		\$2,861,000
Rate Revenue		<u>\$208,759,000</u>
	TOTAL	\$308,077,000
Surplus or (Deficit) for Five Year Program		\$0

#### **Recommended Action:**

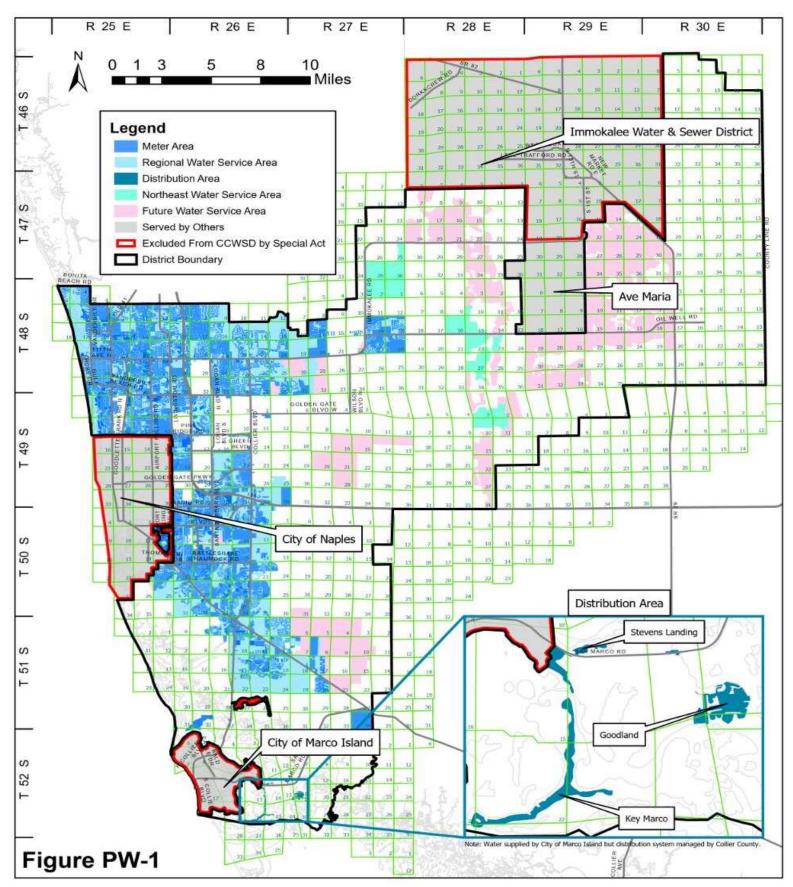
That the BCC find the Collier County Water-Sewer District Potable Water System in compliance with concurrency requirements found in FS Section 163, the Collier County Comprehensive Plan and the Land Development Code; and that it approve the proposed 2021 CCWSD Potable Water System Facilities AUIR and adopt the CIE update for FY22-FY26.

### **Conclusion:**

To ensure adequate treatment capacity for growth within the district boundary of the Collier County Water-Sewer District, expansion related projects commenced in FY 2019 based on the Level of Service Standard, population projections and capacity as shown in the AUIR.

- <sup>(1)</sup> Per the latest master plan, which reduces the Level of Service (LOS) standard from 150 to 130 GPCD
- <sup>(2)</sup> The CIE is consistent with the Board-approved FY22 budget.
- <sup>(3)</sup> As per Florida Statutes Section 129.01(c), contingency reserves are up to 10% of expenses.

### Collier County Water-Sewer District Current and Future Water Service Areas



# POTABLE WATER SYSTEM - TREATMENT FACILITIES INTRODUCTION

The Public Utilities Department's proposed 2021 Potable Water System Treatment Facilities AUIR is based on permanent population estimates and projections for the potable water service area prepared by the Collier County Comprehensive Planning Section on July 7, 2021. Populations are based on using the Bureau of Economic and Business Research (BEBR) Medium Range growth rate through 2031.

The BEBR population numbers are adjusted using data from the Collier Interactive Growth Model, as produced and maintained by Metro Forecasting Models, LLC, including estimates for the Golden Gate City Water Service Area, where only a portion of the population is served, and Marco Shores, where bulk water service was terminated in December 2019.

#### <u>Notes</u>

- A. Concurrency is shown for 10 years for the current service area. This conforms with the State mandated CIE, concurrency regulations, and other Collier County Departments' AUIR submittals.
- B. On September 11, 2018, as Agenda Item 17.F, the Board adopted a resolution expanding the CCWSD's service area to coincide with the unincorporated area permitted by Chapter 2003-353, Laws of Florida. This "jurisdictional boundary," as shown on the map entitled "Collier County Water-Sewer District Current and Future Potable Water Service Areas," encompasses the villages planned in the Northeast Service Area, including three villages in the Big Cypress Stewardship District (Rivergrass, Longwater, and Bellmar), the adjacent SkySail subdivision (FKA Hyde Park Village), and Immokalee Road Rural Village, all depicted on the preceding service area map.
- C. To support forecasted growth in the Northeast Service Area, an interim 0.875 MGD water treatment plant will be added followed by incremental 1 MGD expansions as dictated by demand. This facility will be sited on the 147-acre County-owned Northeast Utility Facilities (NEUF) property at the east end of 39th Ave NE.

New regional plant construction is anticipated outside the AUIR planning horizon. The eventual addition of a third regional water treatment plant will provide the needed reliability to serve the expanded CCWSD. This will reduce the high and wide-ranging demands on the existing two plants and will allow for rehabilitation and replacement. 100% design documents were completed in 2010. The NEUF program has been reactivated, starting with updating the design criteria (FY 2018) and modifying the design plans to conform with current technologies (FY 2028).

Project reactivation is in anticipation of the quantity of large developments going through different stages of the Growth Management Department review process. The need for readiness is also supported by the "Collier County Water-Sewer District System Utilization and Diminishing Capacity Report" (the "Checkbook"), which compares available treatment capacity to potential demand from undeveloped permitted uses in Board-approved planned unit developments (PUDs). The Checkbook uses the historical maximum 3-day average daily demand and monthly average daily demand from the last 10 years as baseline scenarios. Unbuilt future commitments are then multiplied by standard peaking factors and added to the baselines to arrive at worst-case scenarios for future operational requirements. Currently, the Checkbook reports that if all active Board-approved PUDs were built-out, the regional potable water system would have a 4% surplus in permitted treatment capacity.

D. The Public Utilities Department has completed draft master plans for water, wastewater, and irrigation quality water under Contract # 18-7370 with AECOM Technical Services, Inc. These master plans include recommendations for level of service (LOS) standards and the timing of capacity improvements as reported herein. In this section of the AUIR, the terminology "latest master plan" refers to AECOM's "Draft Potable Water Master Plan" dated July 2021.

# POTABLE WATER SYSTEM - TREATMENT FACILITIES INTRODUCTION

The 2021 Potable Water System AUIR is presented as a snapshot of concurrency conditions. The CCWSD is in compliance with concurrency requirements for FY 2022 and FY 2023, as required by FS Section 163, the Collier County Comprehensive Plan, and the Land Development Code.

#### **Recommendation**

The Public Utilities Department's staff recommends that the Collier County Board of County Commissioners approve the 2021 CCWSD Potable Water System Treatment Facilities AUIR.

### POTABLE WATER SYSTEM - TREATMENT FACILITIES LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR SERVICE AREA

#### 9/21/2021

1	2	3	4	5	6	7	8
	Permanent	Required		Total	Total	Retained	Percent
Fiscal	Population	Treatment	New	Permitted	Operational	Operational	of Total
Year	Served	Capacity	Treatment	Treatment	Treatment	Treatment	Permitted
i cai	on Oct. 1	at MDD	Capacity		Capacity	Capacity	
			Capacity	Capacity	Сарасну	Сарасну	Capacity
		MGD	MGD	MGD	MGD	MGD	
2017	153,674	29.0		52.00	50.00	21.0	56%
2018	163,892	31.0		52.75	50.75	19.8	59%
2019	186,994	35.3		52.00	50.00	14.7	68%
2020	194,409	36.7		52.00	50.00	13.3	71%
2021	199,020	37.6		52.00	50.00	12.4	72%
2022	203,437	38.4		52.00	50.00	11.6	74%
2023	207,938	39.3		52.00	50.00	10.7	76%
2024	212,527	40.1	0.88	52.88	50.88	10.7	76%
2025	217,979	41.2		52.88	50.88	9.7	78%
2026	222,893	42.1		52.88	50.88	8.8	80%
2027	227,221	42.9		52.88	50.88	8.0	81%
2028	231,601	43.8	1.00	53.88	51.88	8.1	81%
2029	236,035	44.6		53.88	51.88	7.3	83%
2030	240,520	45.4		53.88	51.88	6.4	84%
2031	244,671	46.2		53.88	51.88	5.7	86%

#### POTABLE WATER SYSTEM - TREATMENT FACILITIES LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR SERVICE AREA

#### 9/21/2021

#### Notes (References are to the column numbers on previous page)

- 1. <u>Fiscal Year</u> starts October 1 and ends September 30.
- Permanent Population Served on Oct. 1. Estimates and projections for the served area were prepared by the Collier County Comprehensive Planning Section on July 7, 2021. Populations are based on the Bureau of Economic and Business Research (BEBR) Medium Range growth rate applied through 2031. Permanent population is used in accordance with the latest master plan.

Utility Planning Section and Comprehensive Planning Section staff have worked together to eliminate unserved enclaves within the overall service area from the population estimates and projections, resulting in a decrease in the numbers presented in the 2020 AUIR. The numbers are likely to change again once the 2020 Census data is incorporated into Comprehensive Planning's methodology, which presently utilizes 2000 Census data for calculating population figures withing given geographic boundaries.

The population projections include the NE Utility (formerly Orangetree Utilities - OTU) WTP service area beginning in FY 2018 based on acquisition on March 1, 2017. The permanent population on the date of acquisition is estimated at 6,086, and population estimates and projections are included for the regional water service area in subsequent years.

The population projections include the Golden Gate City service area (approximately 4 square miles) beginning in FY 2019 based on acquisition on March 1, 2018. The permanent population on the date of acquisition is estimated at 17,120, and population estimates and projections are included for the regional water service area in subsequent years. Following the implementation plan outlined in the Board adopted "Technical Feasibility Study for Acquisition of FGUA Water and Wastewater Assets in Golden Gate," Phase 1 water transmission mains will be completed in FY 2023, and using revised population figures from the Collier Interactive Growth Model, Phase 2 will increase the population served to 27,077 within 15 years after acquisition. Presently, additional water customers are being connected on an individual basis where existing infrastructure is available. Larger system expansion is anticipated through a coordinated effort with the Growth Management

The City of Marco Island terminated bulk water service to the Marco Shores in December 2019. Therefore, population estimates from the CIGM for Marco Shores were added to population estimates for the overall service area for FY 2020 and earlier.

The new villages proposed in the northeastern portion of the water service area will draw housing demand away from the urban area, which still has significant development potential. The population estimates and projections from Comprehensive Planning do not require adjustment since future development of the northeast villages is intrinsic to the system-wide projections.

3. <u>Required Treatment Capacity at MDD is</u> obtained by multiplying the Permanent Population Served on Oct. 1 by 130 gallons per capita per day (gpcd), by a maximum day demand (MDD) peaking factor of 1.3, and by a population adjustment factor of 1.12, and is expressed in million gallons per day (MGD). These values are the Level of Service (LOS) standards recommended in the latest master plan, with an adjustment factor to account for the 12% decrease in the service area population estimates since the 2020 AUIR, which formed the basis of the LOS recommendations. (Dividing historical MDD by a lower service area population would result in a higher LOS calculation.)

#### POTABLE WATER SYSTEM - TREATMENT FACILITIES LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR SERVICE AREA

#### 9/21/2021

4. <u>New Treatment Capacity is the additional treatment capacity in million gallons per day (MGD) placed into service by the start of the fiscal year through plant construction/expansion. Timing and capacity are tentative and may be adjusted with updates in development forecasts and adoption of developer agreements:</u>

Fiscal Year	New Treatment Capacity	Comments and Cost Estimates
2024	0.875 MGD	\$5M 0.875 MGD interim water treatment plant at the NEUF site, repurposing equipment from the decommissioned Golden Gate WTP, to facilitate development in the Northeast Water Service Area, beginning in FY 2023 and online by FY 2024
2028	1 MGD	\$2M 1 MGD expansion to the interim water treatment plant at the NEUF site to facilitate development in the Northeast Water Service Area, beginning in FY 2027 and online by FY 2028

5. <u>Total Permitted Treatment Capacity is</u> the total permitted finished water treatment capacity at the beginning of the fiscal year in million gallons per day (MGD), including New Treatment Capacity.

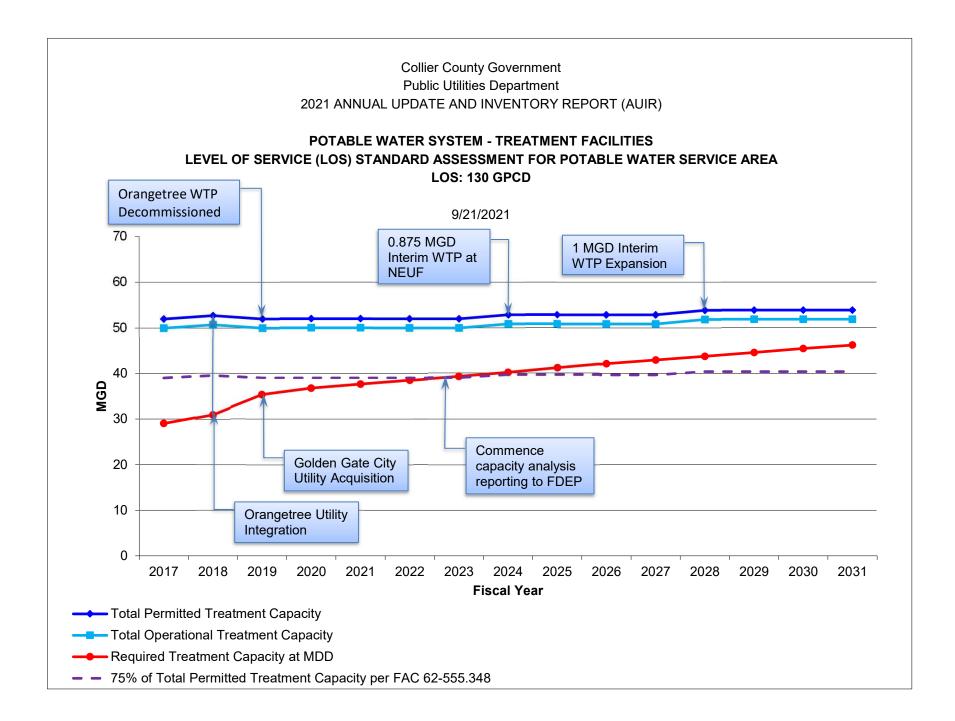
Capacity in FY 2018 increased by 0.75 MGD (as currently sited) because Orangetree Utilities (OTU) was integrated into the CCWSD on March 1, 2017 (during FY 2017), but decreased the following fiscal year due to the water treatment plant being decommissioned on August 13, 2018. Customers previously served by the NE Utility (former OTU) WTP are now served by the regional potable water system.

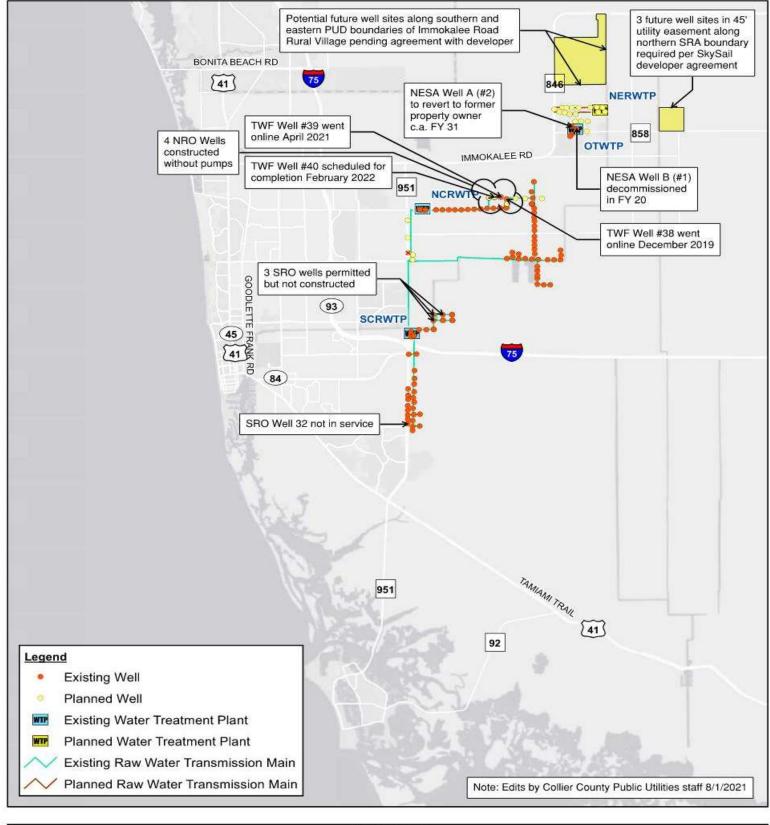
The former 2.1 MGD Golden Gate City water treatment plant was decommissioned immediately upon acquisition from the Florida Governmental Utility Authority on March 1, 2018, and customers in Golden Gate City are connected to the regional potable water system.

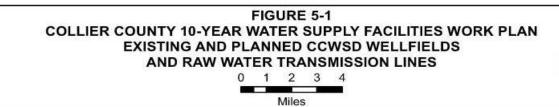
6. <u>Total Operational Treatment Capacity</u> is the Total Permitted Treatment Capacity less 2 MGD, as plotted in the chart on the next page. 2 MGD is the treatment capacity of a lime softening reactor at the NCRWTP, which could be out of service during a period of peak demand. An additional 6-MGD lime softening reactor was constructed at the SCRWTP in FY 2021, ensuring full reliability of the permitted capacity of that plant. So, the reactor at the NCRWTP is the largest treatment process unit that could be offline without redundancy.

In accordance with the July 2021 Draft Potable Water Master Plan, Total Operational Treatment Capacity must be sufficient for the maximum day demand.

- 7. <u>Retained Operational Treatment Capacity</u> is the Total Operational Treatment Capacity minus the Required Treatment Capacity at MDD.
- 8. <u>Percent of Total Permitted Capacity</u> is the total maximum-day quantity of finished water produced by all treatment plants connected to the water system as a percentage of Total Permitted Treatment Capacity. Per FAC 62-555.348, source/treatment/storage capacity analysis reporting to the Department of Environmental Protection (DEP) is triggered once maximum-day demand exceeds 75% of Total Permitted Treatment Capacity, as plotted in the chart on the next page.









Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community - 9/27/2018

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#### POTABLE WATER SYSTEM - WELLFIELD FACILITIES SUMMARY

9/21/2021

#### FRESH WATER

There is one existing wellfield that supplies fresh water to the two regional plants and a small existing wellfield that supplies fresh water to the NE Utility WTP. Another small wellfield will be built to serve the future NERWTP. Each is discussed in more detail below.

#### Golden Gate Wellfield

Raw fresh water is provided to both the North County Regional Water Treatment Plant (NCRWTP) and the South County Regional Water Treatment Plant (SCRWTP) from the Golden Gate Wellfield. The wellfield has a current inventory of 37 wells that terminate in the Lower Tamiami Aquifer. 9 additional wells are scheduled to be constructed in the next 10 years.

The NCRWTP utilizes a membrane filtration (MF) water treatment process that produces a maximum of 12 million gallons per day (MGD) of potable water. The treatment process is 85% efficient (i.e. produces 85 gallons of potable water for every 100 gallons raw water withdrawn from the aquifer).

The SCRWTP utilizes a lime softening water treatment process that produces a maximum of 12 MGD of potable water. The treatment process is 97% efficient.

The two treatment processes produce a combined total of 24 MGD of potable water with a combined efficiency of 91%. A total of 26.5 MGD of raw water is needed to operate the two processes at maximum capacity.

The wells in the Golden Gate Wellfield have an average production rate of 1.152 MGD. In order to produce the 26.5 MGD of raw water necessary to run the water treatment processes at maximum capacity, a minimum of 13 wells are required.

A Minimum Reliability Standard (MRS) of 20% is used for fresh water wells (1 reliability well for every 5 production wells). A total of 16 wells are needed to meet the MRS at full treatment capacity. 9 additional wells are scheduled to be constructed in the next 10 years.

#### POTABLE WATER SYSTEM - WELLFIELD FACILITIES SUMMARY

#### 9/21/2021

#### Northeast Tamiami Wellfield

The existing Northeast Tamiami Wellfield has a current inventory of 3 wells that terminate in the Lower Tamiami Aquifer. The wells in the NESA Wellfield have an average production rate of 0.432 MGD. They will be repurposed for an interim WTP at the NEUF site, the first phase of which is to be online in FY 2024. The second and third phases of the interim WTP will add 6 wells, 1 in each subsequent year. These wells will begin sending raw fresh water to the permanent NERWTP, which will utilize an ion exchange treatment process, with completion of the first phase beyond the 10-year planning horizon for this AUIR.

The interim WTP at the NEUF site will utilize an nanofiltration water treatment process that will produce a maximum of 3 MGD of potable water. The treatment process will be 0.85 efficient (i.e. will produce a minimum of 85 gallons of potable water for every 100 gallons raw water withdrawn from the aquifer).

The wells in the Northeast IE Wellfield will have an average production rate of 0.518 MGD. In order to produce the 3.66 MGD of raw water necessary to run the Phase 3 interim water treatment process at maximum capacity, a minimum of 8 wells would be required.

An MRS of 20% is used for fresh water wells (1 reliability well for every 5 production wells). A total of 10 wells are needed to meet the MRS at full treatment capacity. In addition to the 10 wells are scheduled to be constructed in the next 10 years.

#### **BRACKISH WATER**

There are two separate wellfields that independently provide brackish water to the two regional plants. Another wellfield may be built to serve the future NERWTP. Each is discussed in more detail below.

#### North RO Wellfield

The North RO Wellfield supplies brackish water to the NCRWTP from 20 wells that terminate in the mid- and lower-Hawthorn aquifers.

The NCRWTP utilizes a low-pressure reverse osmosis (RO) water treatment process that produces a maximum of 8 MGD of potable water. The treatment process is 75% efficient. 10.7 MGD of raw water is needed at full treatment capacity.

The wells in the North RO Wellfield have an average production rate of 1.013 MGD. In order to produce the 10.7 MGD of raw water necessary to run the water treatment process at maximum capacity, a minimum of 11 wells are required.

An MRS of 33% is used for brackish water wells (1 reliability well for every 3 production wells). A total of 15 wells are needed to meet the MRS at full treatment capacity. 4 additional wells are scheduled to be constructed in the next 10 years.

#### POTABLE WATER SYSTEM - WELLFIELD FACILITIES SUMMARY

#### 9/21/2021

#### South RO Wellfield

The South RO Wellfield supplies brackish water to the NCRWTP from 30 wells that terminate in the mid- and lower Hawthorn aquifers.

The SCRWTP utilizes a low-pressure RO water treatment process that produces a maximum of 20 MGD of potable water. The treatment process is 75% efficient. 26.7 MGD of raw water is needed at full treatment capacity.

The wells in the South RO Wellfield have an average production rate of 1.224 MGD. In order to produce the 26.7 MGD of raw water necessary to run the water treatment process at maximum capacity, a minimum of 37 wells are required.

An MRS of 33% is used for brackish water wells (1 reliability well for every 3 production wells). A total of 50 wells are needed to meet the MRS at full treatment capacity. 4 additional wells are scheduled to be constructed in the next 10 years.

#### **CONCLUSION**

The CCWSD's existing wellfields have capacities in excess of the minimum reliability standards based upon the population estimates and projections for the regional potable water system service area, and future wellfields of reliable capacities will be timely completed in support of the interim WTP at the NEUF site.

#### POTABLE WATER SYSTEM - WELLFIELD FACILITIES LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR SERVICE AREA

#### 1 2 3 4 5 6 7 Golden North South Northeast Gate Hawthorn Hawthorn Tamiami Required Total Wellfield Wellfield Fiscal Finished Wellfield Wellfield Wellfield Year Water Reliable Reliable Reliable Reliable Reliable for MDD Capacity Capacity Capacity Capacity Capacity MGD MGD MGD MGD MGD MGD 24.00\* 8.00\* 2017 29.0 20.00\* 0.00 52.00 24.00\* 8.00\* 20.00\* 0.75\* 2018 31.0 52.75 24.00\* 8.00\* 2019 35.3 20.00\* 0.00 52.00 2020 24.00\* 8.00\* 36.7 20.00\* 0.00 52.00 2021 37.6 24.00\* 8.00\* 20.00\* 0.00 52.00 2022 38.4 24.00\* 8.00\* 20.00\* 0.00 52.00 8.00\* 2023 39.3 24.00\* 20.00\* 0.00 52.00 2024 40.1 24.00\* 8.00\* 20.00\* 0.88\* 52.88 2025 41.2 24.00\* 8.00\* 20.00\* 0.88\* 52.88 2026 42.1 24.00\* 8.00\* 0.88\* 20.00\* 52.88 2027 42.9 24.00\* 8.00\* 20.00\* 0.88\* 52.88 24.00\* 8.00\* 20.00\* 2028 43.8 1.88\* 53.88 24.00\* 2029 44.6 8.00\* 20.00\* 1.88\* 53.88 2030 45.4 24.00\* 8.00\* 20.00\* 1.88\* 53.88 2031 46.2 24.00\* 8.00\* 20.00\* 1.88\* 53.88

#### 9/21/2021

\*Wellfield reliable capacity is limited by the capacity of the associated treatment process.

#### POTABLE WATER SYSTEM - WELLFIELD FACILITIES LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR SERVICE AREA

#### 9/21/2021

Notes (References are to the column numbers on previous page)

- 1. Fiscal Year starts October 1 and ends September 30.
- 2. Required Finished Water for MDD See note 3 in LOS standard assessment for treatment facilities.
- 3. <u>Golden Gate Wellfield Reliable Capacity</u> is the pumping capacity of the Golden Gate Wellfield adjusted by an average plant efficiency (ratio of finished water to raw water) of 91% (97% for SCRWTP lime softening and 75% for NCRWTP Low Pressure Reverse Osmosis, each process at 12 MGD treatment capacity) and a reliability standard of 1 reliability well for every 5 production wells (i.e. 5/6 of the total number of wells operating). The current number of wells in the Golden Gate Wellfield is 37. Well 39 went online in April 2021 (i.e. online by the start of FY 2022), Well 40 will be online by the start of FY 2023, and 1 well will be constructed in each fiscal year beginning in FY 2024 to achieve and sustain the reliability standard.
- 4. North Hawthorn Wellfield Reliable Capacity is the pumping capacity of the North RO Wellfield adjusted by an average plant efficiency (ratio of finished water to raw water) of 75% and a reliability standard of 1 reliability well for every 3 production wells (i.e. 3/4 of the total number of wells operating). The current number of wells in the North RO Wellfield is 20. Wells 1, 2, 3, and 4 are inactive due to elevated salinity (total dissolved solids, TDS) in the aquifer, and well 4 must be abandoned due to conflict with the Vanderbilt Beach Road Extension project. Well 5 experienced high salinity, which stabilized after reducing usage. Well 6 is inactive due to a problem with sand production in addition to high salinity. Wells 117, 118, 119, and 120 are drilled but have not been equipped with pumps. Despite these inactie wells, the wellfield satisfies the reliability standard. An average of one RO well per year will be added in the north and south wellfields to sustain reliability.
- 5. South Hawthorn Wellfield Reliable Capacity is the pumping capacity of the South RO Wellfield adjusted by an average plant efficiency (ratio of finished water to raw water) of 0% and a reliability standard of 1 reliability well for every 3 production wells (i.e. 3/4 of the total number of wells operating). The current number of wells in the South RO Wellfield is 30. Wells 7, 14, 17, and 42 are used only during periods of high demand due to elevated salinity (total dissolved solids, TDS) in the aquifer. Wells 32, 43, 44, and 45 are permitted but have not been completed. Despite these inactie wells, the wellfield satisfies the reliability standard. An average of one RO well per year will be added in the north and south wellfields to sustain reliability.
- 6. <u>Northeast Tamiami Wellfield Reliable Capacity</u> is the pumping capacity of the NESA Wellfield adjusted by an average plant efficiency (ratio of finished water to raw water) of 82% and a reliability standard of 1 reliability well for every 5 production wells (i.e. 5/6 of the total number of wells operating). 3 existing wells in the Northeast Tamiami Wellfield became inactive for potable water production when the former Orange Tree WTP was decommissioned on August 13, 2018, but will be utilized for water supply to the initial phase of the interim WTP at the NEUF site beginning in FY 2024.

Per the Addendum to Integration Agreement, approved by the Board on July 13, 2021 (Agenda Item 16.C.20), Well #2 will revert to the previous landowner when the first phase of the Northeast County Water Reclamation Facility is able to receive and process flow from the existing Orange Tree WWTP, which is anticipated by 2031, at which time the Northeast Interim WTP will be fully operational. The well is presumed to be replaced in the same year it is relinquished.

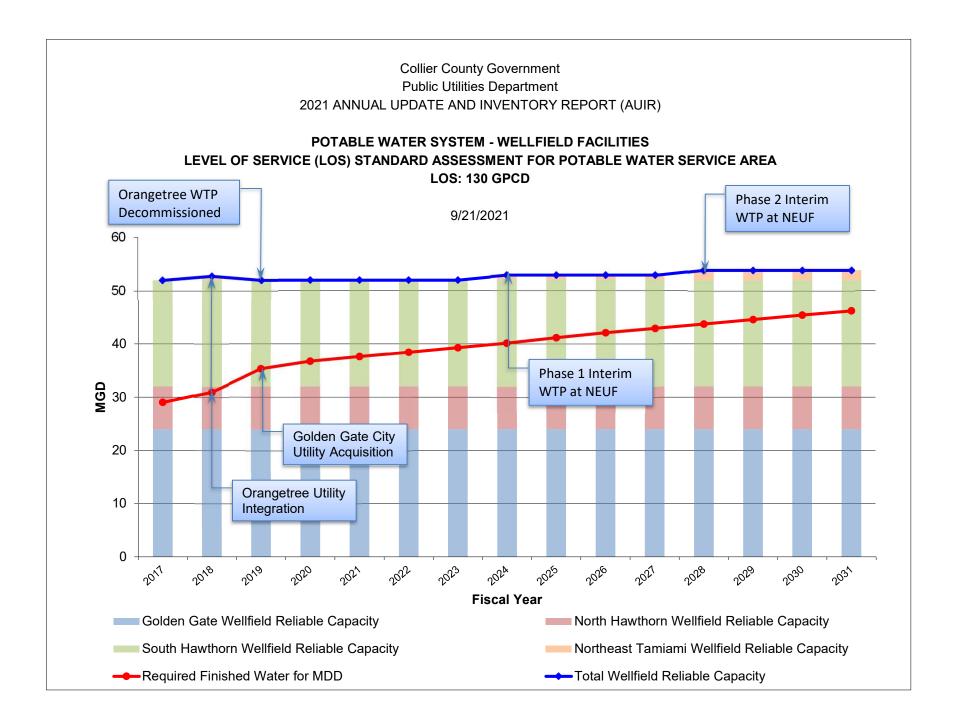
#### POTABLE WATER SYSTEM - WELLFIELD FACILITIES LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR SERVICE AREA

#### 9/21/2021

7. <u>Total Wellfield Reliable Capacity is</u> the net reliable capacity of the six wellfields combined. The below table summarizes the total quantity of wells in each wellfield for each plan year:

WUP #		11-00249-W		11-00419-W			
Fiscal	GGª	NRO⁵	SRO⁵	NET <sup>a</sup>	Total	Add	Add
Year	Wells	Wells	Wells	Wells	Wells	Fresh	Brackish
2022	38	20	30	0	88	1	
2023	39	20	30	0	89	4	
2024	40	20	30	3	93	2	
2025	41	20	30	4	95	2	
2026	42	20	30	5	97	2	
2027	43	20	30	6	99	2	5
2028	44	24	31	7	106	2	1
2029	45	24	32	8	109	2	1
2030	46	24	33	9	112	2	1
2031	47	24	34	10	115		
Net Add'l	9	4	4	10	27	19	8

<sup>a</sup>Fresh <sup>b</sup>Brackish



# COLLIER COUNTY WATER - SEWER DISTRICT

SYSTEM UTILIZATION AND DIMINISHING CAPACITY REPORT ("CHECKBOOK")

**REGIONAL POTABLE WATER SYSTEM** 

### DATA: Current as of May 14, 2021

**INTRODUCTION:** The Checkbook uses the historical maximum 3-day average daily demand (TDADD) and monthly average daily demand (MADD) from the last 10 years as baseline scenarios. Unbuilt future commitments are then multiplied by standard peaking factors and added to the baselines to arrive at worst-case scenarios for future operational requirements.

	Million Gallons per Day (MGD)
	WATER
CURRENT AVAILABLE CAPACITY (BASED ON HISTORICAL EXTREME EVENT)	REGIONAL
1a. Existing Permitted Plant Capacity (MADD)	52.000
1b. Existing Operational Plant Capacity per 2020 AUIR	48.000
2a. 10-Year Maximum TDADD <sup>[1]</sup>	34.073
2b. 10-Year Maximum MADD <sup>[2]</sup>	31.981
3a. Current Available Diminishing Capacity (TDADD) (Line 1b - Line 2a)	13.927
3b. Current Available Diminishing Capacity (MADD) (Line 1b - Line 2b)	16.019
CURRENT AVAILABILITY WITHOUT FUTURE COMMITMENTS	
4a. SYSTEM AVAILABILITY BASED ON MAX. 3-DAY (Line 3a / Line 1b)	29%
4b. SYSTEM AVAILABILITY BASED ON MAX. MONTH (Line 3b / Line 1b)	33%
	Million Gallons per Day (MGD)
	WATER
PROJECTED AVAILABLE CAPACITY (WITH FUTURE COMMITMENTS)	REGIONAL
5. Total BCC-approved Active PUD commitments (Unbuilt per GMD PUD Master List) <sup>[3]</sup>	12.134
6a. Projected Available Capacity (TDADD) (Line 3a - Line 5)	1.793
6b. Projected Available Capacity (MADD) (Line 3b - Line 5)	3.885
CURRENT AVAILABILITY WITH FUTURE COMMITMENTS	
7a. SYSTEM AVAILABILITY BASED ON MAX. 3-DAY (Line 6a / Line 1b)	4%
7b. SYSTEM AVAILABILITY BASED ON MAX. MONTH (Line 6b / Line 1b)	8%
	Million Gallons per Day (MGD)
ELITIDE AVAILADI E CADACITY (MITH EVDANCIONS)	WATER REGIONAL
<u>FUTURE AVAILABLE CAPACITY (WITH EXPANSIONS)</u> 8a. Expansions Within Next 12 Months (MADD)	0.000
8b. Expansions Within Next 12-24 Months (MADD)	0.000
9a. Future Available Capacity (TDADD) (Line 6a + Line 8a + Line 8b)	1.793
9b. Future Available Capacity (MADD) (Line 6b + Line 8a + Line 8b)	3.885
	5.005
FUTURE AVAILABILITY WITH EXPANSIONS	
10a. SYSTEM AVAILABILITY BASED ON MAX. 3-DAY (Line 11a / Line 1b)	4%
10b. SYSTEM AVAILABILITY BASED ON MAX. MONTH (Line 11b / Line 1b)	8%
EQOTNOTES/OU & LEIEDS.	
$\frac{FOOTNOTES/QUALIFIERS:}{[11] Line 2av. Ma Vr of Max. 2 Day Since May 2011 =>}$	Mar 10
[1] Line 2a: Mo-Yr of Max. 3-Day Since May 2011 => $[0]$ Line 2b: Mo Yr of Max. Month Since May 2011 =>	Mar-19 Mar 20
[2] Line 2b: Mo-Yr of Max. Month Since May 2011 =>	Mar-20
[3] Capacity requested by outstanding active BCC-approved PUD units, as documented in the m	
Built-out, closed-out, inactive, and discontinued PUD's are not included in line 5; only active	e rours are included. The

outstanding PUD units are assumed to be developed before PUD closeout. Level of service for future commitments is defined

#### EXHIBIT "A" COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS FISCAL YEARS 2022-2026

POTABLE	WATER SYSTEM PROJECTS							
		CONSTRUCTION	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
CIE #	PROJECT	SCHEDULE NOTES	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTAL
	Debt Service		\$17,362,000	\$11,808,000	\$11,796,000	\$11,906,000	\$11,974,000	\$64,846,000
	Expansion Related Projects - Other		\$46,540,000	\$0	\$0	\$0	\$667,000	\$47,207,000
	Replacement & Rehabilitation Projects - Other		\$40,600,000	\$34,555,000	\$34,585,000	\$31,535,000	\$35,635,000	\$176,910,000
	Departmental Capital		\$550,000	\$561,000	\$572,000	\$583,000	\$595,000	\$2,861,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$2,620,000	\$3,456,000	\$3,459,000	\$3,154,000	\$3,564,000	\$16,253,000
	POTABLE WATER SYSTEM PROJECT TOTALS		\$107,672,000	\$50,380,000	\$50,412,000	\$47,178,000	\$52,435,000	\$308,077,000

REVENUE KEY - REVENUE SOURCE	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTAL
WIF - Water System Development Fees / Impact Fees	\$7,750,000	\$7,750,000	\$7,750,000	\$7,750,000	\$7,750,000	\$38,750,000
B1 - Bonds/ Loans	\$54,040,000	\$0	\$0	\$0	\$667,000	\$54,707,000
Cares Act Funding	\$3,000,000	\$0	\$0	\$0	\$0	\$3,000,000
WCA - Water Capital Account	\$550,000	\$561,000	\$572,000	\$583,000	\$595,000	\$2,861,000
REV - Rate Revenue	\$42,332,000	\$42,069,000	\$42,090,000	\$38,845,000	\$43,423,000	\$208,759,000
REVENUE TOTAL	\$107,672,000	\$50,380,000	\$50,412,000	\$47,178,000	\$52,435,000	\$308,077,000

NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Revenue sources are estimates only; both the mix of sources and amounts will change when a rate study is conducted.

#### DATA SOURCES:

Expansion Related and Replacement & Rehabilitation Projects:

FY 2022 is obtained from the 2022 Proposed Budget for R&R projects. Expansion projects require additional funding therefore not included in the budget.

FY 2023 to FY 2026 are from the FY 2019 Impact Fee Rate Study.

#### Department Capital:

FY 2022 is obtained from the 2022 Proposed Budget, split 50/50 between Water and Wastewater. FY 2023 to FY 2026 are 2% increases over each fiscal year (pursuant to CPI adjustments per current Board policy).

#### Debt Service:

All years are obtained from the current Collier County Water-Sewer District Financial Statements and Other Reports including Summary of Debt Service requirements to maturity. Total Debt Service amount is split 50/50 between Water and Wastewater.

<u>Reserve for Contingencies - Replacement and Rehabilitation Projects:</u> As per Florida Statues, reserve for contingencies is up to 10% of expenses.

CIE consistent with Board-approved FY22 budget

#### APPENDIX H FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY FISCAL YEARS 2027-2031

POTABLE WATER SYSTEM PROJECTS								
		CONSTRUCTION	\$ AMOUNT					
CIE #	PROJECT	SCHEDULE NOTES	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	TOTAL
	Debt Service		\$11,681,000	\$11,413,000	\$13,222,000	\$11,360,000	\$11,362,000	\$59,038,000
	Expansion Related Projects - Generally		\$0	\$7,500,000	\$0	\$0	\$0	\$7,500,000
	Replacement & Rehabilitation Projects - Generally		\$36,955,000	\$36,585,000	\$36,985,000	\$36,985,000	\$36,985,000	\$184,495,000
	Departmental Capital		\$607,000	\$619,000	\$631,000	\$644,000	\$657,000	\$3,158,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$3,696,000	\$3,659,000	\$3,699,000	\$3,699,000	\$3,699,000	\$18,452,000
	POTABLE WATER PROJECT TOTALS		\$52,939,000	\$59,776,000	\$54,537,000	\$52,688,000	\$52,703,000	\$272,643,000

REVENUE KEY - REVENUE SOURCE	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	TOTAL
WIF - Water System Development Fees	\$7,750,000	\$7,750,000	\$7,750,000	\$7,750,000	\$7,750,000	\$38,750,000
B1 - Bonds/ Loans	\$0	\$7,500,000	\$0	\$0	\$0	\$7,500,000
Cares Act Funding	\$0	\$0	\$0	\$0	\$0	\$0
WCA - Water Capital Account	\$607,000	\$619,000	\$631,000	\$644,000	\$657,000	
REV - Rate Revenue	\$44,582,000	\$43,907,000	\$46,156,000	\$44,294,000	\$44,296,000	\$223,235,000
REVENUE TOTAL	\$52,939,000	\$59,776,000	\$54,537,000	\$52,688,000	\$52,703,000	\$272,643,000

NOTE: Figures provided for years six through ten are estimates of revenues necessary to support project costs but do not constitute a long-term concurrency system. Revenue sources are estimates only; both the mix of sources and amounts will change when a rate study is conducted.

# COUNTY WATER - SEWER DISTRICT – WASTEWATER TREATMENT SYSTEMS

### **CONTENTS**

- 2021 AUIR FACILITY SUMMARY WASTEWATER TREATMENT SYSTEM FACILITIES
- INTRODUCTION
- LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR SOUTH COUNTY WATER RECLAMATION FACILITY (SCWRF) SERVICE AREA (TABLE, NOTES & CHART)
- LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR NORTH COUNTY WATER RECLAMATION FACILITY (NCWRF) SERVICE AREA (TABLE, NOTES & CHART
- COLLIER COUNTY WATER-SEWER DISTRICT CURRENT AND FUTURE WASTEWATER SERVICE AREAS MAP
- COLLIER COUNTY WATER-SEWER DISTRICT WASTEWATER SERVICE JURISDICTION (MAP)
- FUTURE DEVELOPMENT IN NORTHEAST COLLIER COUNTY (MAP)
- COLLIER COUNTY WATER-SEWER DISTRICT SYSTEM UTILIZATION AND DIMINISHING CAPACITY REPORT ("CHECKBOOK")
- EXHIBIT "A" SCHEDULE OF CAPITAL IMPROVEMENTS
- APPENDIZ "H" FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY

Collier County 2021 Annual Update and Inventory Report on Public Facilities

### 2021 AUIR FACILITY SUMMARY WASTEWATER TREATMENT SYSTEM FACILITIES

Facility Type: Collier County Water-Sewer District – Wastewater Treatment System

Level of Service Standard:	90 gallons per capita day (gpcd) $^{(1)}$
Capacity: South Service Area (SCWRF)	
Permitted/Operational Treatment Capacity, FY22	16.00 MGD
Required Treatment Capacity, FY22	12.15 MGD
Permitted/Operational Treatment Capacity, FY31	16.00 MGD
Required Treatment Capacity, FY31	14.02 MGD
Capacity: North Service Area (NCWRF)	
Permitted/Operational Treatment Capacity, FY22	24.10 MGD
Required Treatment Capacity, FY22	17.20 MGD
Permitted/Operational Treatment Capacity, FY31	24.10 MGD
Required Treatment Capacity, FY31	18.42 MGD
Capacity: Golden Gate City Central Service Area (GGWWTP/CCWRF)	
Permitted/Operational Treatment Capacity, FY22	1.50 MGD
Required Treatment Capacity, FY22	1.15 MGD
Permitted/Operational Treatment Capacity, FY31	5.00 MGD
Required Treatment Capacity, FY31	1.33 MGD
Capacity: Orange Tree Service Area (OTWWTP)	
Permitted/Operational Treatment Capacity, FY22	0.75 MGD
Required Treatment Capacity, FY22	0.62 MGD
Permitted/Operational Treatment Capacity, FY31	0.00 MGD
Required Treatment Capacity, FY31	0.00 MGD
Capacity: Northeast Service Area (Interim WWTP & NECWRF)	
Permitted/Operational Treatment Capacity, FY22	0.00 MGD
Required Treatment Capacity, FY22	0.00 MGD
Permitted/Operational Treatment Capacity, FY31	5.50 MGD
Required Treatment Capacity, FY31	1.70 MGD

Expenditures FY22-FY26		(2)
Debt Service		\$63,559,000
Expansion Related Projects - Other		\$186,737,000
Replacement & Rehabilitation Projects - Other		\$203,302,000
Departmental Capital		\$2,861,000
Reserve for Contingencies - Replacement & Rehabilitation Projects		<u>\$17,473,000</u> <sup>(3)</sup>
	TOTAL	\$473,932,000
Existing Revenue Sources FY22-FY26		
Wastewater System Development Fees / Impact Fees		\$39,500,000
Bonds		\$202,987,000
Cares Act Funding		\$7,000,000
Wastewater Capital Account - Transfers		\$2,861,000
Rate Revenue		<u>\$221,584,000</u>
	TOTAL	\$473,932,000
		<b>*</b> •

Surplus or (Deficit) for Five Year Program

\$0

#### **Recommended Action:**

That the BCC find the Collier County Water-Sewer District Wastewater Treatment System in compliance with concurrency requirements found in FS Section 163, the Collier County Comprehensive Plan and the Land Development Code; and that it approve the proposed 2021 CCWSD Wastewater Treatment Facilities AUIR and adopt the CIE Update for FY22-FY26.

#### **Conclusion:**

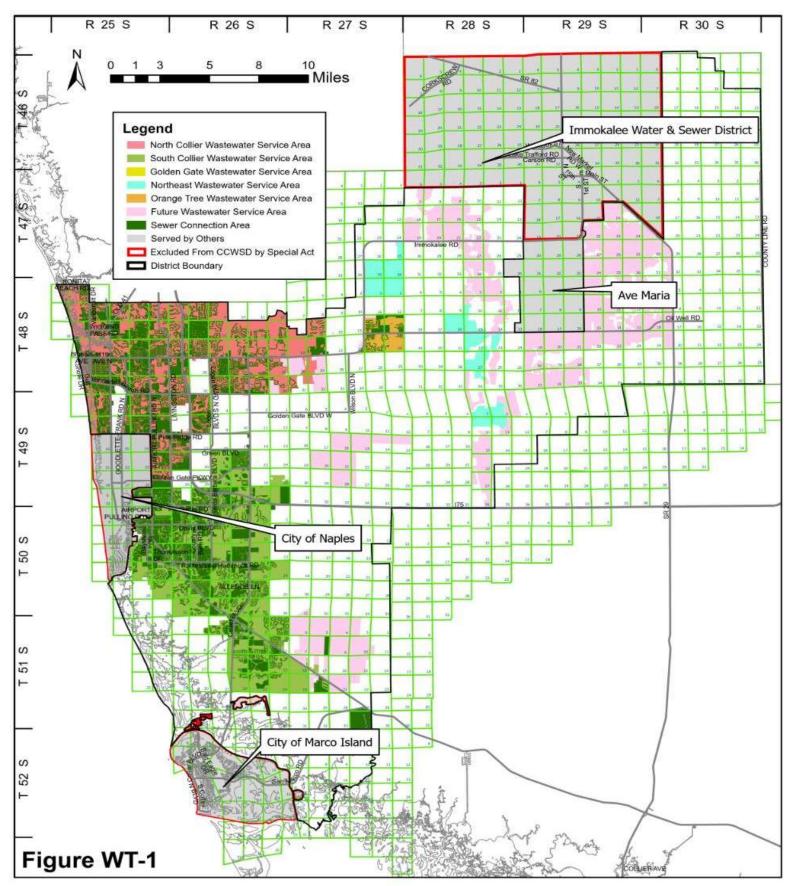
To ensure adequate treatment capacity for growth within the district boundary of the Collier County Water-Sewer District, expansion related projects commenced in FY 2019 based on the Level of Service Standard, population projections and capacity as shown in the AUIR.

<sup>(1)</sup> Per the latest master plan, which reduces the Level of Service (LOS) standard from 100 to 90 GPCD

<sup>(2)</sup> The CIE is consistent with the Board-approved FY22 budget.

<sup>(3)</sup> As per Florida Statutes Section 129.01(c), contingency reserves are up to 10% of expenses

### Collier County Water-Sewer District Current and Future Wastewater Service Areas



# WASTEWATER SYSTEM - TREATMENT FACILITIES INTRODUCTION

The Public Utilities Department's (PUD's) proposed 2021 CCWSD Wastewater System Treatment Facilities AUIR is based on permanent population estimates and projections for the CCWSD's wastewater service areas prepared by the Collier County Comprehensive Planning Section on July 7, 2021. Populations are based on using the Bureau of Economic and Business Research (BEBR) Medium Range growth rate through 2031.

The BEBR population numbers are adjusted using data from the Collier Interactive Growth Model, as produced and maintained by Metro Forecasting Models, LLC, including estimates for the Northeast and Golden Gate City Wastewater Service Areas, where growth rate has not been established or only a portion of the population is served.

#### <u>Notes</u>

- A. Concurrency is shown for 10 years for the current service area. This conforms with the State mandated CIE, concurrency regulations, and other Collier County Departments' AUIR submittals.
- B. On September 11, 2018, as Agenda Item 17.F, the Board adopted a resolution expanding the CCWSD's service area to coincide with the unincorporated area permitted by Chapter 2003-353, Laws of Florida. This "District Boundary," as shown on the map entitled, "Collier County Water-Sewer District Current and Future Wastewater Service Areas," encompasses the villages planned in the Northeast Service Area, including three villages in the Big Cypress Stewardship District (Rivergrass, Longwater, and Bellmar), the adjacent SkySail subdivision (FKA Hyde Park Village), and Immokalee Road Rural Village, all depicted on the preceding service area map.
- C. The Golden Gate wastewater service area will expand when needed to accommodate flow from current and future development in Activity Center #9 and the surrounding area north of I-75. A force main was extended along Magnolia Pond Drive and Tropicana Boulevard, between the high school and the plant, in preparation for the future diversion, which will relieve capacity constraints at the South County Water Reclamation Facility (SCWRF) and in the force mains along Collier Boulevard and Davis Boulevard. To facilitate this service area expansion as well as anticipated redevelopment of the Golden Gate Parkway corridor and the Golden Gate Country Club (acquired by the County in July 2019) and the conversion of existing septic system users within the existing service area, the Golden Gate City WWTP will undergo an expansion to 4 MGD, resulting in the Central County Water Reclamation Facility (CCWRF).
- D. To serve the Orangetree and Orange Blossom Ranch PUDs, a new master pump station and associated force main improvements were completed in FY 2019 that allow the diversion of peak flows from the Northeast Sub-Regional (former Orangetree) Wastewater Treatment Plant to the North County Water Reclamation Facility (NCWRF). (The Orangetree PUD includes Waterways of Naples, Orangetree, Valencia Lakes, Neighborhood Shoppes at Orangetree, and Valencia Golf & Country Club as well as the Corkscrew Elementary/Middle and Palmetto Ridge High campuses.)
- E. The new regional water reclamation facility at the Northeast Utility Facilities (NEUF) site will support forecasted growth in the northeast region of the county. The NEUF is sited on 147 acres of County owned land at the east end of 39th Ave NE. 100% design documents were completed in 2010. The NEUF program has been reactivated, starting with updating the design criteria (FY 2018) and modifying the design plans to conform with current technologies (FY 2018-2019). Design-build construction of a 1.5 MGD interim WWTP and associated pipelines began in 2019, due to be complete in 2023. This will be followed by a 4 MGD initial phase of the Northeast County Water Reclamation Facility (NECWRF) to be online by FY 2030, depending on developer commitments. The addition of a third water reclamation facility provides the needed reliability to serve the expanded CCWSD. This will reduce the high and wide-ranging flows to the existing two plants and will allow for rehabilitation and replacement.

#### WASTEWATER SYSTEM - TREATMENT FACILITIES INTRODUCTION

Project reactivation is in anticipation of the quantity of large developments going through different stages of the Growth Management Department review process. The need for readiness is also supported by the "Collier County Water-Sewer District System Utilization and Diminishing Capacity Report" (the "Checkbook"), which compares available treatment capacity to potential flow from undeveloped permitted uses in Board-approved planned unit developments (PUDs). The Checkbook uses the historical maximum 3-day average daily flow and monthly average daily flow from the last 10 years as baseline scenarios. Unbuilt future commitments are then multiplied by standard peaking factors and added to the baselines to arrive at worst-case scenarios for future operational requirements. Currently, the Checkbook reports that if all active Board-approved PUDs were built-out, the SCWRF would have a 27% deficit in and the NCWRF would have a 0% deficit in permitted treatment capacity.

- F. The LOS standards presented herein represent normal operating conditions. The Public Utilities Department also evaluates the ability of the wastewater system to manage peak wet weather events in the draft 2021 Wastewater Master Plan. Improvements to the collections system and treatment plants, such as pipe replacement, flow diversion, and storage, are programmed to ensure that peak wet weather flows can be managed.
- G. The Public Utilities Department has completed draft master plans for water, wastewater, and irrigation quality water under Contract # 18-7370 with AECOM Technical Services, Inc. These master plans include recommendations for level of service (LOS) standards and the timing of capacity improvements as reported herein. In this section of the AUIR, the terminology "latest master plan" refers to AECOM's "Draft Potable Water Master Plan" dated July 2021.

The 2021 Wastewater System AUIR is presented as a snapshot of concurrency conditions. The CCWSD is in compliance with concurrency requirements for FY 2022 and FY 2023, as required by FS Section 163, the Collier County Comprehensive Plan, and the Land Development Code.

#### **Recommendation**

The Public Utilities Department's staff recommends that the Collier County Board of County Commissioners approve the 2021 CCWSD Wastewater System Treatment Facilities AUIR.

#### WASTEWATER SYSTEM - TREATMENT FACILITIES LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR SOUTH COUNTY WATER RECLAMATION FACILITY (SCWRF) SERVICE AREA LOS: 90 gpcd

#### 10/18/2021

1	2	3	4	5	6	7	8	9
Fiscal Year	Permanent Population Served on Oct. 1	Max. Month Average Daily Flow (MADF) MGD	New Treatment Capacity MGD	Permitted / Operational Treatment Capacity MGD	Retained Operational Treatment Capacity MGD	Max. MADF Diverted to NCWRF MGD	Required Treatment Capacity at SCWRF MGD	Percent of Permitted Capacity MGD
2017	94,622	10.6		16.00	5.4		10.6	59%
2018	96,459	10.8		16.00	5.2		10.8	60%
2019	99,239	11.1		16.00	4.9		11.1	62%
2020	102,874	11.5		16.00	4.5		11.5	64%
2021	106,088	11.8		16.00	4.2		11.8	66%
2022	108,837	12.1		16.00	3.9		12.1	68%
2023	111,638	12.5		16.00	3.5		12.5	70%
2024	113,045	12.6		16.00	3.4		12.6	71%
2025	115,511	12.9		16.00	3.1		12.9	72%
2026	117,738	13.1		16.00	2.9		13.1	74%
2027	119,415	13.3		16.00	2.7		13.3	75%
2028	120,961	13.5		16.00	2.5		13.5	76%
2029	122,541	13.7		16.00	2.3		13.7	77%
2030	124,151	13.9		16.00	2.1		13.9	78%
2031	125,642	14.0		16.00	2.0		14.0	78%

#### WASTEWATER SYSTEM - TREATMENT FACILITIES LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR SOUTH COUNTY WATER RECLAMATION FACILITY (SCWRF) SERVICE AREA LOS: 90 gpcd

#### 10/18/2021

#### Notes (References are to the column numbers on the previous page.)

- 1. Fiscal Year starts October 1 and ends September 30.
- Permanent Population Served on Oct. 1. Estimates and projections for the served area were prepared by the Collier County Comprehensive Planning Section on July 7, 2021. Populations are based on the Bureau of Economic and Business Research (BEBR) Medium Range growth rate applied through 2031. Permanent population is used in accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan.

The new villages in the northeast wastewater service area will draw housing demand away from the existing wastewater service areas with significant remaining development potential. Therefore, their population projections are proportionally deducted from the projections for the north, south, and Orange Tree wastewater service areas. The portion taken from the south wastewater service area is 63 percent.

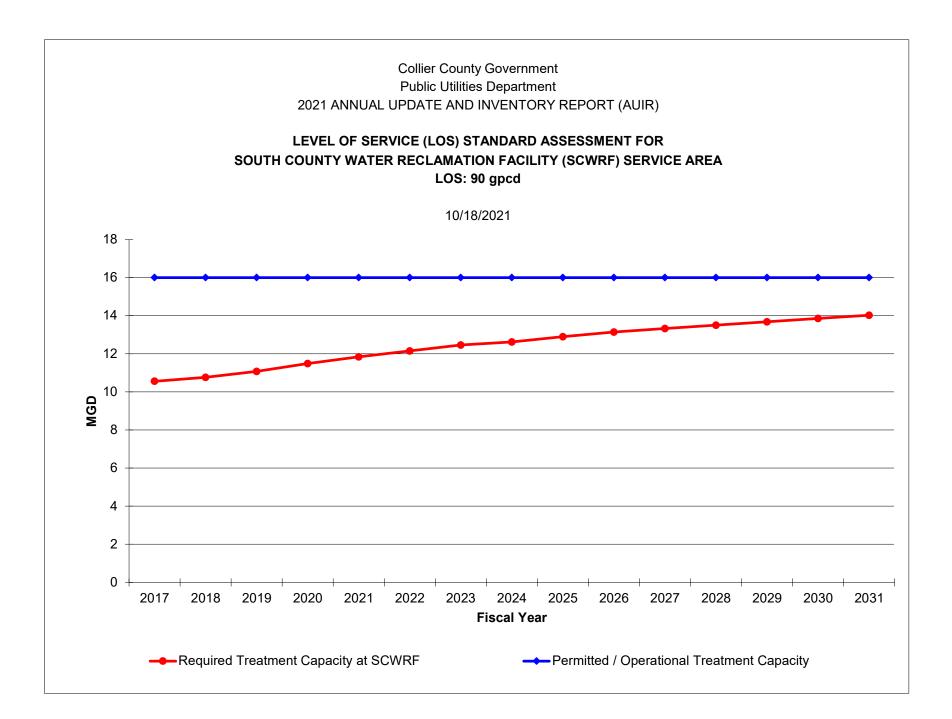
- 3. <u>Max. Month Average Daily Flow (MADF) is</u> obtained by multiplying the Permanent Population Served on Oct. 1 by 90 gallons per capita per day (gpcd) and by a maximum monthly average daily flow (MADF) peaking factor of 1.24 and is expressed in million gallons per day (MGD). These values are the Level of Service (LOS) standards recommended in the latest master plan.
- 4. <u>New Treatment Capacity is the additional treatment capacity in million gallons per day (MGD) placed into service by the start of the fiscal year through plant construction/expansion, as follows:</u>

Fiscal Year	New Treatment Capacity	Comments
NA	0 MGD	The SCWRF site is built-out given current treatment technology on-site.

5. <u>Permitted / Operational Treatment Capacity is</u> the permitted treatment capacity at the beginning of the fiscal year with no deduction for the largest unit being out of service given that the SCWRF is designed for Class I reliability. Permitted / Operational Treatment Capacity is plotted in the chart on the next page.

In accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan, Total Operational Treatment Capacity must be sufficient for the max. TDADF.

- 6. <u>Retained Operational Treatment Capacity is</u> the Permitted / Operational Treatment Capacity minus the Max. Month Average Daily Flow (MADF). Any deficit in operational treatment capacity is countered by diverting flow to the NCWRF.
- 7. <u>Max. MADF Diverted to NCWRF is</u> the max. flow that must be diverted to the NCWRF to avoid exceeding the permitted capacity of the SCWRF.
- 8. <u>Required Treatment Capacity at SCWRF is</u> equal to the Max. Month Average Daily Flow (MADF) less the Max. MADF Diverted to NCWRF and is plotted in the chart on the next page.
- Percent of Permitted Capacity is the maximum Three-Month Average Daily Flow (TMADF) as a percentage of Permitted / Operational Treatment Capacity. TMADF is calculated using a peaking factor of 1.11 per the latest master plan. Per FAC 62-600.405, capacity analysis reporting to the Department of Environmental Protection (DEP) is triggered once TMADF exceeds 50% of permitted capacity, as plotted in the chart on the next page.



#### WASTEWATER SYSTEM - TREATMENT FACILITIES LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR NORTH COUNTY WATER RECLAMATION FACILITY (NCWRF) SERVICE AREA LOS: 90 gpcd

#### 10/18/2021

1	2	3	4	5	6	7	8	9
Fiscal Year	Permanent Population Served on Oct. 1	Max. Month Average Daily Flow (MADF) MGD	New Treatment Capacity MGD	Permitted / Operational Treatment Capacity MGD	Retained Operational Treatment Capacity MGD	Max. MADF Diverted to NCWRF MGD	Required Treatment Capacity at NCWRF MGD	Percent of Permitted Capacity MGD
2017	103,186	15.3	mob	24.10	8.8	MOD	15.3	59%
2018	105,914	15.7		24.10	8.4		15.7	60%
2019	108,908	16.1		24.10	8.0		16.1	62%
2020	112,879	16.7		24.10	7.4		16.7	64%
2021	114,908	17.0		24.10	7.1		17.0	65%
2022	116,197	17.2		24.10	6.9		17.2	66%
2023	117,511	17.4		24.10	6.7		17.4	67%
2024	118,808	17.6		24.10	6.5		17.6	68%
2025	120,086	17.8		24.10	6.3		17.8	68%
2026	121,113	17.9		24.10	6.2		17.9	69%
2027	121,842	18.0		24.10	6.1		18.0	69%
2028	122,512	18.1		24.10	6.0		18.1	70%
2029	123,198	18.2		24.10	5.9		18.2	70%
2030	123,898	18.3		24.10	5.8		18.3	70%
2031	124,495	18.4		24.10	5.7		18.4	71%

#### WASTEWATER SYSTEM - TREATMENT FACILITIES LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR NORTH COUNTY WATER RECLAMATION FACILITY (NCWRF) SERVICE AREA LOS: 90 gpcd

#### 10/18/2021

Notes (References are to the column numbers on the previous page.)

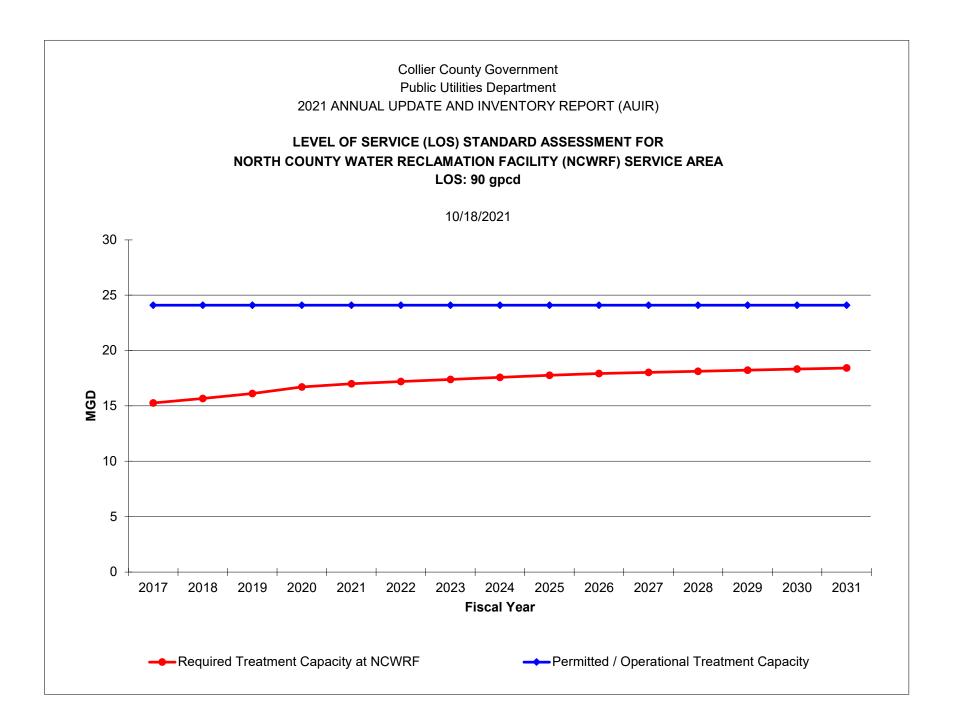
- 1. Fiscal Year starts October 1 and ends September 30.
- Permanent Population Served on Oct. 1. Estimates and projections for the served area were prepared by the Collier County Comprehensive Planning Section on July 7, 2021. Populations are based on the Bureau of Economic and Business Research (BEBR) Medium Range growth rate applied through 2031. Permanent population is used in accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan.

The new villages in the northeast wastewater service area will draw housing demand away from the existing wastewater service areas with significant remaining development potential. Therefore, their population projections are proportionally deducted from the projections for the north, south, and Orange Tree wastewater service areas. The portion taken from the north wastewater service area is 29 percent.

- 3. <u>Max. Month Average Daily Flow (MADF) is</u> obtained by multiplying the Permanent Population Served on Oct. 1 by 90 gallons per capita per day (gpcd), by a maximum monthly average daily flow (MADF) peaking factor of 1.21, and by a population adjustment factor of 1.36, and is expressed in million gallons per day (MGD). These values are the Level of Service (LOS) standards recommended in the latest master plan, with an adjustment factor to account for the 36% decrease in the service area population estimates since the 2020 AUIR, which formed the basis of the LOS recommendations. (Dividing historical MDD by a lower service area population would result in a higher LOS calculation.)
- 4. <u>New Treatment Capacity is the additional treatment capacity in million gallons per day (MGD) placed into service by the start of the fiscal year through plant construction/expansion. Timing and capacity are tentative and may be adjusted with updates in development forecasts and adoption of developer agreements:</u>

Fiscal Year	New Treatment Capacity	Comments and Cost Estimates	
NA	0 MGD	The NCWRF site is built-out given current treatment technology on-site.	

- 5. <u>Permitted / Operational Treatment Capacity is</u> the permitted treatment capacity at the beginning of the fiscal year in million gallons per day (MGD) with no deduction for the largest unit being out of service given that the NCWRF is designed for Class I reliability. Permitted / Operational Treatment Capacity is plotted in the chart on the next page.
- 6. <u>Retained Operational Treatment Capacity is</u> the Permitted / Operational Treatment Capacity minus the Max. Month Average Daily Flow (MADF).
- 7. <u>Max. MADF Diverted to NCWRF is</u> the max. flow that must be diverted to the NCWRF to avoid exceeding the permitted capacity of the SCWRF.
- 8. <u>Required Treatment Capacity at NCWRF is</u> equal to the Max. Month Average Daily Flow (MADF) plus the Max. MADF Diverted to NCWRF and is plotted in the chart on the next page.
- Percent of Permitted Capacity is the maximum Three-Month Average Daily Flow (TMADF) as a percentage of Permitted / Operational Treatment Capacity. TMADF is calculated using a peaking factor of 1.12 per the latest master plan. Per FAC 62-600.405, capacity analysis reporting to the Department of Environmental Protection (DEP) is triggered once TMADF exceeds 50% of permitted capacity, as plotted in the chart on the next page.



#### WASTEWATER SYSTEM - TREATMENT FACILITIES LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR GOLDEN GATE WASTEWATER (GGWWTP/CCWRF) SERVICE AREA

#### 10/18/2021

1	2	3	4	5	6	7
Fiscal Year	Permanent Population Served on Oct. 1	Required Treatment Capacity at AADF MGD	New Treatment Capacity MGD	Permitted / Operational Treatment Capacity MGD	Retained Operational Treatment Capacity MGD	Percent of Permitted Capacity MGD
2017						
2018						
2019	12,768	1.1		1.50	0.35	89%
2020	12,790	1.2		1.50	0.35	89%
2021	12,802	1.2		1.50	0.35	89%
2022	12,812	1.2		1.50	0.35	89%
2023	12,821	1.2		1.50	0.35	89%
2024	14,186	1.3	3.50	5.00	3.72	30%
2025	14,446	1.3		5.00	3.70	30%
2026	14,547	1.3		5.00	3.69	30%
2027	14,595	1.3		5.00	3.69	30%
2028	14,642	1.3		5.00	3.68	31%
2029	14,691	1.3		5.00	3.68	31%
2030	14,739	1.3		5.00	3.67	31%
2031	14,786	1.3		5.00	3.67	31%

#### WASTEWATER SYSTEM - TREATMENT FACILITIES LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR GOLDEN GATE WASTEWATER (GGWWTP/CCWRF) SERVICE AREA

#### 10/18/2021

#### Notes (References are to the column numbers on the previous page.)

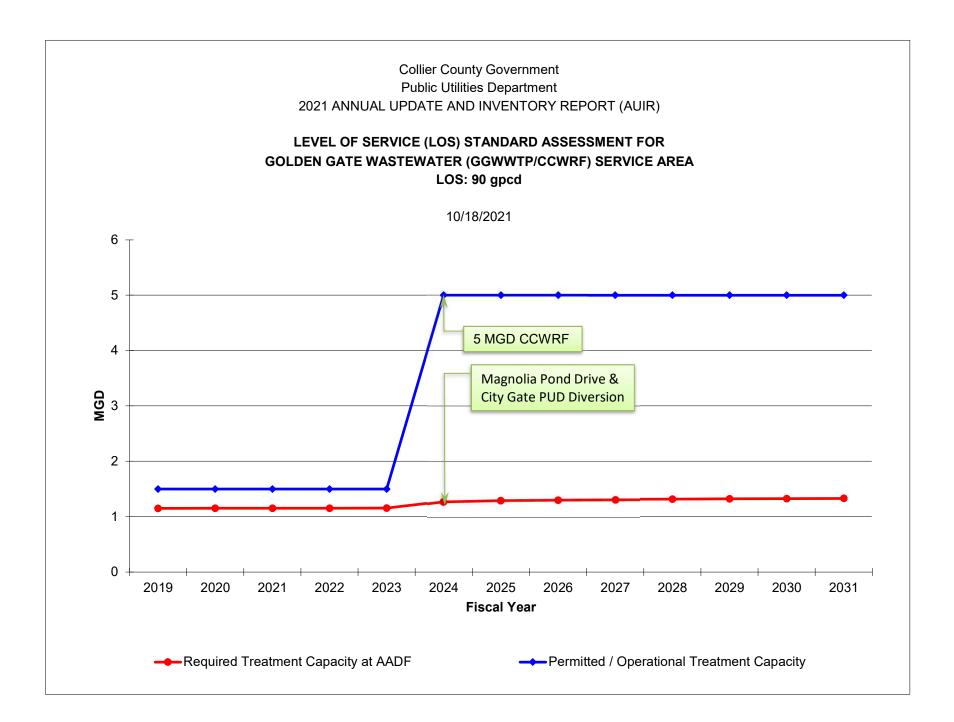
- 1. Fiscal Year starts October 1 and ends September 30.
- Permanent Population Served on Oct. 1. Estimates and projections for the served area were prepared by the Collier County Comprehensive Planning Section on July 7, 2021. Populations are based on the Bureau of Economic and Business Research (BEBR) Medium Range growth rate applied through 2031. Permanent population is used in accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan.

The population projections include the Golden Gate wastewater service area beginning in FY 2019 based on acquisition during FY 2018. The Golden Gate wastewater service area (approximately 4 square miles) presently includes a population of approximately 12,404 residents in Golden Gate City. Based on the implementation plan outlined in the Board adopted "Technical Feasibility Study for Acquisition of FGUA Water and Wastewater Assets in Golden Gate," Phase 3 will increase the population served to 15,000 within 20 years.

- <u>Required Treatment Capacity at AADF</u> is obtained by multiplying the Permanent Population Served on Oct. 1 by 90 gallons per capita per day (gpcd) and is expressed in million gallons per day (MGD). This value is the Level of Service (LOS) standard recommended in the latest master plan.
- 4. <u>New Treatment Capacity</u> is the additional treatment capacity in million gallons per day (MGD) placed into service by the start of the fiscal year through plant construction/expansion. Timing and capacity are tentative and may be adjusted with updates in development forecasts and adoption of developer agreements:

Fiscal Year	New Treatment Capacity	Comments and Cost Estimates
2024	3.5 MGD	3.5 MGD expansion resulting in the 5 MGD Central County Water Reclamation Facility (CCWRF) to sustain sewer service to existing and future customers in the Golden Gate City and Activity Center #9 areas beginning in FY 2020 through FY 2024.

- <u>Permitted / Operational Treatment Capacity</u> is the permitted treatment capacity at the beginning of the fiscal year in million gallons per day (MGD) with no deduction for the largest unit being out of service given that the GGWWTP is designed for Class I reliability. Permitted / Operational Treatment Capacity is plotted in the chart on the next page.
- 6. <u>Retained Operational Treatment Capacity</u> is the Permitted / Operational Treatment Capacity minus the Required Treatment Capacity at AADF.
- Percent of Permitted Capacity is the maximum Three-Month Average Daily Flow (TMADF) as a percentage of Permitted / Operational Treatment Capacity. TMADF is calculated using a peaking factor of 1.16 per the latest master plan. Per FAC 62-600.405, capacity analysis reporting to the Department of Environmental Protection (DEP) is triggered once TMADF exceeds 50% of permitted capacity, as plotted in the chart on the next page.



#### WASTEWATER SYSTEM - TREATMENT FACILITIES LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR ORANGE TREE WASTEWATER TREATMENT PLANT (OTWWTP) SERVICE AREA LOS: 90 gpcd

#### 10/18/2021

1	2	3	4	5	6	7	8	9
Fiscal Year	Permanent Population Served on Oct. 1	Max. 3-Month Average Daily Flow (TMADF) MGD	New Treatment Capacity MGD	Permitted / Operational Treatment Capacity MGD	Retained Operational Treatment Capacity MGD	Max. TMADF Diverted to NESA MGD	Required Treatment Capacity at OT WWTP MGD	Percent of Permitted Capacity MGD
2017		MOD	INGD	WIGD	MGD	MGD	NIGD	WGD
2018	4,293	0.46		0.75	0.29		0.46	61%
2019	4,523	0.48		0.75	0.27		0.48	65%
2020	4,978	0.53		0.75	0.22		0.53	71%
2021	5,416	0.58		0.75	0.17		0.58	77%
2022	5,765	0.62		0.75	0.13		0.62	82%
2023	6,121	0.66		0.75	0.09		0.66	87%
2024	6,471	0.69		0.75	0.06		0.69	92%
2025	6,816	0.73		0.75	0.02		0.73	97%
2026	7,092	0.76		0.75		0.01	0.75	100%
2027	7,285	0.78		0.75		0.03	0.75	100%
2028	7,463	0.80		0.75		0.05	0.75	100%
2029	7,644	0.82		0.75		0.07	0.75	100%
2030	7,829	0.84		0.75		0.09	0.75	100%
2031	7,986	0.86	-0.75			0.86		

#### WASTEWATER SYSTEM - TREATMENT FACILITIES LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR ORANGE TREE WASTEWATER TREATMENT PLANT (OTWWTP) SERVICE AREA LOS: 90 gpcd

#### 10/18/2021

Notes (References are to the column numbers on the previous page.)

- 1. Fiscal Year starts October 1 and ends September 30.
- Permanent Population Served on Oct. 1. Estimates and projections for the served area were prepared by the Collier County Comprehensive Planning Section on July 7, 2021. Populations are based on the Bureau of Economic and Business Research (BEBR) Medium Range growth rate applied through 2031. Permanent population is used in accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan.

The population projections include the Orangetree wastewater service area beginning in FY 2018 based on acquisition during FY 2017.

The new villages in the northeast wastewater service area will draw housing demand away from the existing wastewater service areas. Therefore, their population projections are proportionally deducted from the projections for the north, south, and Orange Tree wastewater service areas. The portion taken from the Orange Tree wastewater service area is 8 percent.

- 3. <u>Max. 3-Month Average Daily Flow (TMADF) is</u> obtained by multiplying the Permanent Population Served on Oct. 1 by 90 gallons per capita per day (gpcd) and by a maximum 3-month average daily flow (TMADF) peaking factor of 1.19 and is expressed in million gallons per day (MGD). These values are the Level of Service (LOS) standards recommended in the latest master plan.
- 4. <u>New Treatment Capacity is the additional treatment capacity in million gallons per day (MGD) placed into service by the start of the fiscal year through plant construction/expansion. Timing and capacity are tentative and may be adjusted with updates in development forecasts and adoption of developer agreements:</u>

Fiscal Year	New Treatment Capacity	Comments and Cost Estimates
2031	-0.75 MGD	The OTWWTP site will be vacated one year (at the latest) after the initial phase of the NECWRF is completed.

 <u>Permitted / Operational Treatment Capacity is</u> the permitted treatment capacity at the beginning of the fiscal year in million gallons per day (MGD) with no deduction for the largest unit being out of service given that the OTWWTP is designed for Class I reliability. Permitted / Operational Treatment Capacity is plotted in the chart on the next page.

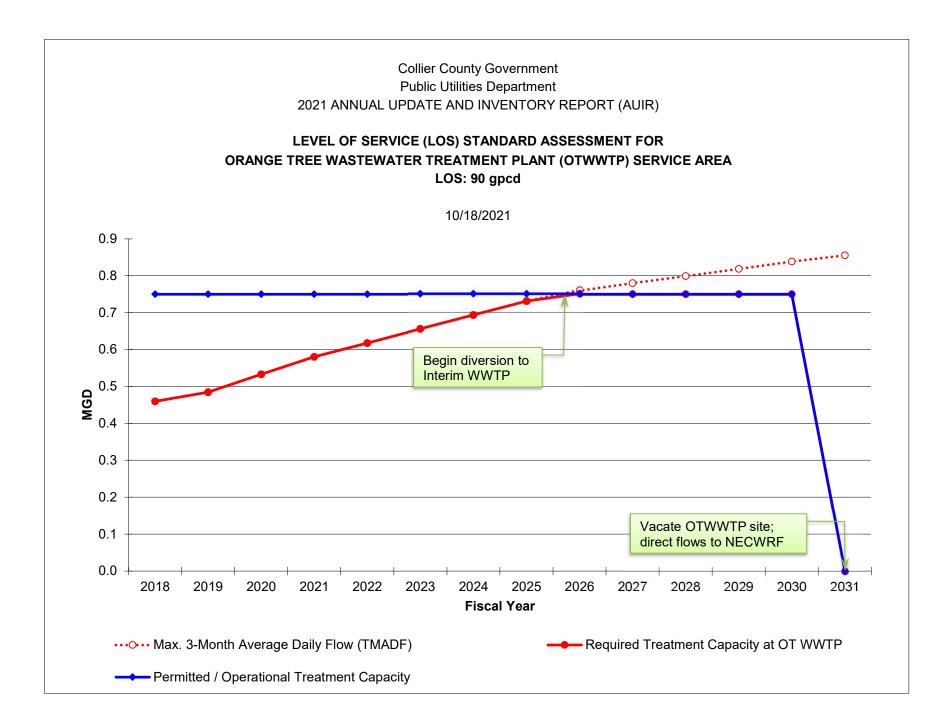
Orangetree Utilities (OTU) was integrated into the CCWSD during FY 2017. Therefore, capacity first appears in FY 2018. Integrated assets include a 0.75 MGD (as currently sited) wastewater treatment plant that will continue to operate until the NECWRF is in service and reliably operational (approximately 12 months after final completion of the initial phase) or until it is determined that flows from the WWTP can be adequately processed at the NECWRF, per the Addendum to Integration Agreement, approved by the Board on July 13, 2021 (Agenda Item 16.C.20).

- 6. <u>Retained Operational Treatment Capacity is</u> the Permitted / Operational Treatment Capacity minus the Max. 3-Month Average Daily Flow (TMADF).
- 7. <u>Max. TMADF Diverted to NESA is</u> the max. flow that must be diverted to the NEWRF to avoid exceeding the permitted capacity of the OTWWTP.
- 8. <u>Required Treatment Capacity at OT WWTP is</u> equal to the Max. 3-Month Average Daily Flow (TMADF) plus the Max. TMADF Diverted to NESA and is plotted in the chart on the next page.

#### WASTEWATER SYSTEM - TREATMENT FACILITIES LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR ORANGE TREE WASTEWATER TREATMENT PLANT (OTWWTP) SERVICE AREA LOS: 90 gpcd

#### 10/18/2021

 Percent of Permitted Capacity is the maximum TMADF as a percentage of Permitted / Operational Treatment Capacity. Per FAC 62-600.405, capacity analysis reporting to the Department of Environmental Protection (DEP) is triggered once TMADF exceeds 50% of permitted capacity, as plotted in the chart on the next page.



#### WASTEWATER SYSTEM - TREATMENT FACILITIES LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR NORTHEAST WASTEWATER (INTERIM WWTP/NECWRF) SERVICE AREA

#### 10/18/2021

1	2	3	4	5	6	7	8	9
Fiscal Year	Permanent Population Served on Oct. 1	Max. Month Average Daily Flow (MADF) MGD	New Treatment Capacity MGD	Permitted / Operational Treatment Capacity MGD	Retained Operational Treatment Capacity MGD	Max. MADF Diverted to NESA MGD	Required Treatment Capacity at NESA MGD	Percent of Permitted Capacity MGD
2017								
2018								
2019								
2020								
2021								
2022								
2023	109	0.0	1.5	1.50	1.5		0.0	1%
2024	372	0.0		1.50	1.5		0.0	2%
2025	891	0.1		1.50	1.4		0.1	6%
2026	1,668	0.2		1.50	1.3	0.0	0.2	12%
2027	2,698	0.3		1.50	1.2	0.0	0.3	20%
2028	3,793	0.4		1.50	1.1	0.1	0.5	29%
2029	4,889	0.5		1.50	1.0	0.1	0.6	37%
2030	5,984	0.7	4	5.50	4.8	0.1	0.7	13%
2031	7,397	0.8		5.50	4.7	0.9	1.7	29%

#### WASTEWATER SYSTEM - TREATMENT FACILITIES LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR NORTHEAST WASTEWATER (INTERIM WWTP/NECWRF) SERVICE AREA

#### 10/18/2021

#### **Notes** (References are to the column numbers on the previous page.)

- 1. Fiscal Year starts October 1 and ends September 30.
- Permanent Population Served on Oct. 1. Projections for the future northeast wastewater service area were obtained from the Collier Interactive Growth Model (CIGM) for the zones comprising the four planned developments--SkySail (FKA Hyde Park Village, FKA Winchester Lakes, FKA Collier Lakes), Rivergrass Village (FKA Rural Lands West), Immokalee Road Rural Village (FKA SR 846 Land Trust), and Hogan Island Village. Permanent population is used in accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan.

The new villages in the northeast wastewater service area will draw housing demand away from the existing wastewater service areas with significant remaining development potential. Therefore, their population projections are proportionally deducted from the projections for the north, south, and Orange Tree wastewater service areas (29, 63, and 8 percent respectively).

- 3. <u>Max. Month Average Daily Flow (MADF)</u> is obtained by multiplying the Permanent Population Served on Oct. 1 by 90 gallons per capita per day (gpcd) and by a maximum monthly average daily flow (MADF) peaking factor of 1.12, and is expressed in million gallons per day (MGD). These values are the Level of Service (LOS) standards recommended in the latest master plan.
- 4. <u>New Treatment Capacity</u> is the additional treatment capacity in million gallons per day (MGD) placed into service by the start of the fiscal year through plant construction/expansion. Timing and capacity are tentative and may be adjusted with updates in development forecasts and adoption of developer agreements:

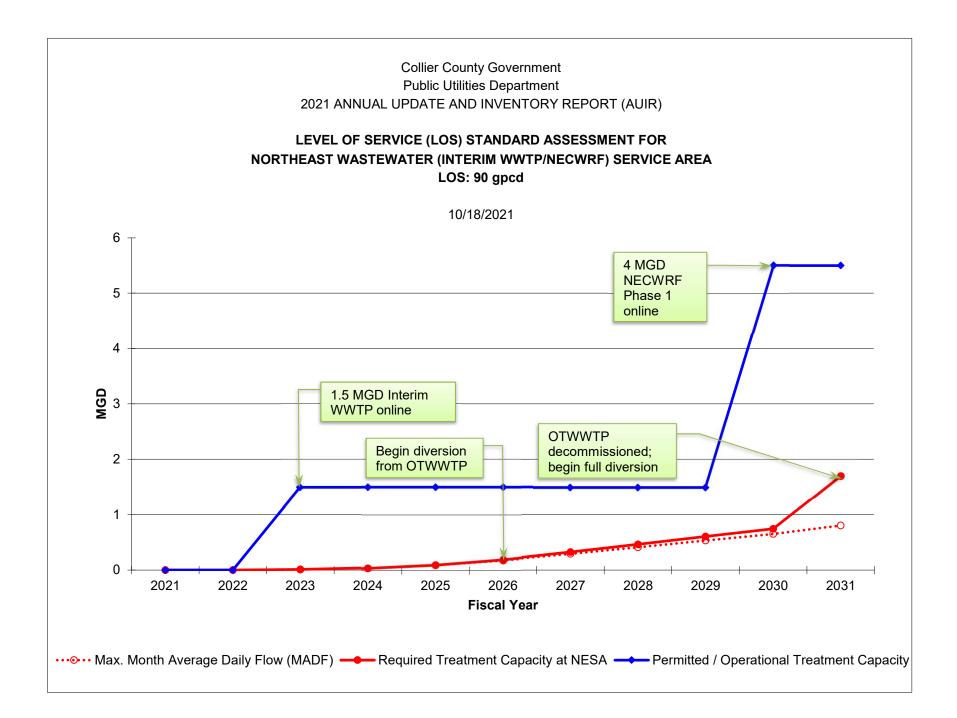
Fiscal Year	New Treatment Capacity	Comments and Cost Estimates
2023	1.5 MGD	\$28M interim WWTP, storage tanks and associated pipelines at the NEUF site to facilitate development in the northeast region of the county, outside the Orangetree and Orange Blossom Ranch PUDs, beginning in FY 2019 through FY 2023
2030	4 MGD	\$108M Northeast County Water Reclamation Facility (NCEWRF) at the Northeast Utility Facilities (NEUF) site to sustain sewer service to customers in the new villages proposed in the Northeast Wastewater Service Area, beginning in FY 2026, to be online by FY 2030

- Permitted / Operational Treatment Capacity is the permitted treatment capacity at the beginning of the fiscal year in million gallons per day (MGD) with no deduction for the largest unit being out of service given that the NECWRF is designed for Class I reliability. Permitted / Operational Treatment Capacity is plotted in the chart on the next page.
- 6. <u>Retained Operational Treatment Capacity</u> is the Permitted / Operational Treatment Capacity minus the Max. Month Average Daily Flow (MADF).
- 7. <u>Max. MADF Diverted to NESA</u> is the max. flow that must be diverted to the Northeast Service Area (Interim WWTP/NECWRF) to avoid exceeding the permitted capacity of the OTWWTP.
- 8. <u>Required Treatment Capacity at NESA is equal to the Max. Month Average Daily Flow (MADF) plus the Max. MADF Diverted to NESA and is plotted in the chart on the next page.</u>

#### WASTEWATER SYSTEM - TREATMENT FACILITIES LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR NORTHEAST WASTEWATER (INTERIM WWTP/NECWRF) SERVICE AREA

#### 10/18/2021

 Percent of Permitted Capacity is the maximum Three-Month Average Daily Flow (TMADF) as a percentage of Permitted / Operational Treatment Capacity. TMADF is calculated using a peaking factor of 1.12 per the latest master plan. Per FAC 62-600.405, capacity analysis reporting to the Department of Environmental Protection (DEP) is triggered once TMADF exceeds 50% of permitted capacity, as plotted in the chart on the next page.



#### WASTEWATER COLLECTION/TRANSMISSION SYSTEM CONSTRAINTS

#### 10/18/2021

The following four areas will have future constrained wastewater conveyance capacity based on current growth patterns. The plan to address each constraint is discussed below and shown on the following "Wastewater Collection/Transmission System Constraints Map" map.

#### City Gate PUD/Activity Center #9

#### Background:

The original design of wastewater transmission facilities along Davis Boulevard did not anticipate service to the areas north of I-75. Proposed growth in Activity Center #9 and the surrounding area may require additional conveyance and treatment capacity.

#### Status:

A new force main along Magnolia Pond Drive to the Golden Gate City Wastewater Treatment Plant (GGWTP) was completed in February 2021, and will provide additional transmission capacity when activated. The 4 MGD Central County Water Reclamation Facility (CCWRF) design is planned to be complete in August 2021, after which construction will be solicited. The CCWRF will replace the aging GGWTP and is anticipated to be on-line in 2024.

#### Future Actions:

Complete. Construction of the CCWRF is addressed in the Golden Gate Wastewater Service Area LOS section.

#### Immokalee Road & Collier Blvd - COMPLETE

#### Background:

To make full use of the capacity of the North County Water Reclamation Facility (NCWRF) for wastewater service to the growing northeast region of Collier County, the 2014 Master Plan/CIP Plan recommended construction of a 24" force main from a new master pump station (MPS 167) at Heritage Bay west along Immokalee Road, then south along Logan Boulevard, then east a short distance along Vanderbilt Beach Road to MPS 104. Once completed, these improvements will relieve the burden on the 12" force main along Immokalee Road, which has become constrained due to extensive development of the corridor.

MPS 167, located at the south end of Heritage Bay Commons Tract G, serves as a wastewater booster pump station for the Heritage Bay PUD and current and future developments along Collier Blvd and east of Collier Blvd along Immokalee Road. MPS 167 currently routes wastewater to the NCWRF but will ultimately provide the flexibility to route wastewater to the future NECWRF.

#### Status:

Construction of the Immokalee Road/Logan Boulevard force main was completed in June 2021 and is in service, effectively relieving the wastewater transmission constraint.

*Future Actions:* Complete. None required.

#### WASTEWATER COLLECTION/TRANSMISSION SYSTEM CONSTRAINTS

10/18/2021

#### Western Interconnect

#### Background:

A western interconnect is needed to manage growth in the south wastewater service area and to facilitate maintenance of existing force mains. A series of force main extensions and improvements to Master Pump Station (MPS) 309 are needed to move wastewater flows from the south wastewater service area to the north wastewater service area, where there is available treatment capacity. The force main along Livingston Road is divided into twelve phases generally extending from Radio Road to Immokalee Road.

#### Status:

Five phases were previously constructed ahead of development activity. Phase 2 was completed in August 2020 and Phases 6B/6C were completed in June 2021. Phases 7A, 7B, 9, MPS 309 and a Booster Pump Station are planned for FY 2022-2023, making the system fully operational. The final Phase 8 between Vanderbilt Beach Road and Immokalee Road will be completed if and when needed as dictated by flow projections.

#### Future Actions:

Construct the remaining phases in FY 2022-2023 including pump station capacity increases.

#### New Master Pump Station 101.12 (Naples Park)

#### Background:

MPS 101.00 currently serves areas north and south of 111th Avenue N. The new MPS 101.12 will allow the area to be divided such that MPS 101.00 will serve north of 111th Avenue N., and MPS 101.12 will serve the area south, which includes Naples Park. A new 8th Street gravity main and Creekside Road force main connected to MPS 101.12 will allow greater wastewater flows to be conveyed from the constrained Naples Park area.

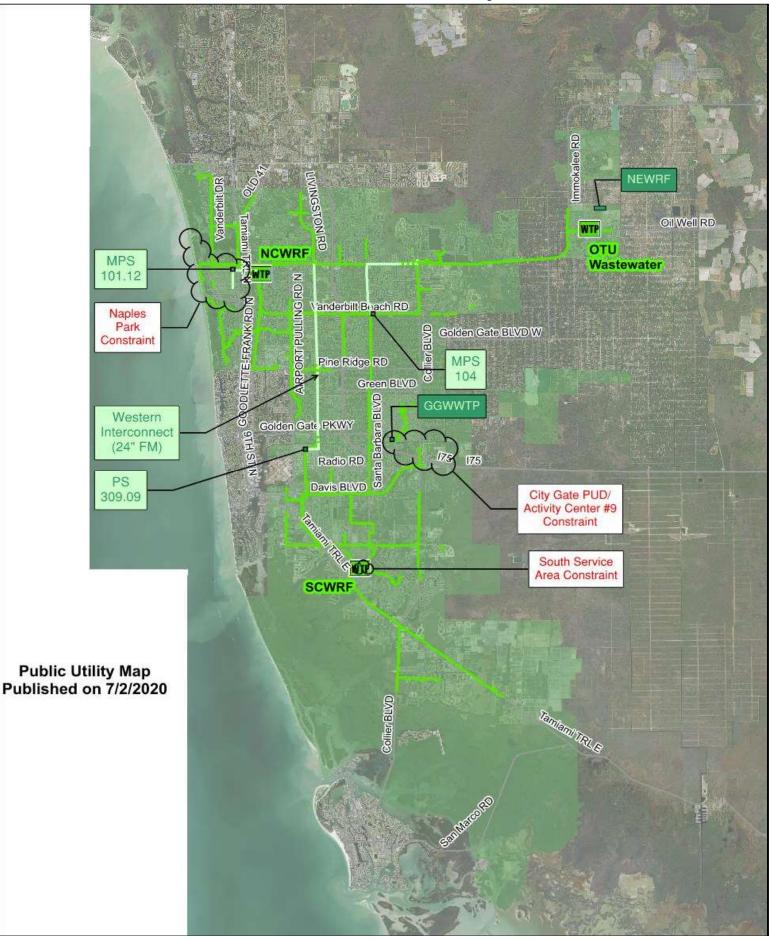
#### Status:

As part of the Basin 101 Program, the needed infrastructure has been designed. The project is being implemented in phases, by first constructing the Creekside Road Force Main Phase 2 in FY 2022, which will provide additional wastewater transmission capacity.

#### Future Action:

Construct MPS 101.12 and the 8th Street Interceptor gravity main as funding is available.

### Wastewater Collection/Transmission System Constraints



### COLLIER COUNTY WATER - SEWER DISTRICT SYSTEM UTILIZATION AND DIMINISHING CAPACITY REPORT ("CHECKBOOK") REGIONAL WASTEWATER SYSTEMS

#### DATA: Current as of May 14, 2021

**INTRODUCTION:** The Checkbook uses the historical maximum 3-day average daily flow (TDADF) and monthly average daily flow (MADF) from the last 10 years as baseline scenarios. Unbuilt future commitments are then multiplied by standard peaking factors and added to the baselines to arrive at worst-case scenarios for future operational requirements.

CURRENT AVAILABLE CAPACITY (BASED ON HISTORICAL EXTREME EVENT)	
1. Existing Permitted/Operational Plant Capacity per 2020 AUIR (TMADF)	
2a. 10-Year Maximum TDADF <sup>[2]</sup>	
2b. 10-Year Maximum MADF <sup>[3]</sup>	
3a. Peak Flow Diversion (TDADF) <sup>[5]</sup>	
3b. Peak Flow Diversion (MADF) <sup>[5]</sup>	
As Current Available Diminishing Canacity (TDADE) (Line 1. Line 2. Line 2.)	

4a. Current Available Diminishing Capacity (TDADF) (Line 1 - Line 2a - Line 3a)

4b. Current Available Diminishing Capacity (MADF) (Line 1 - Line 2b - Line 3b)

#### CURRENT AVAILABILITY WITHOUT FUTURE COMMITMENTS

5a.	SYSTEM AVAILABILITY BASED ON MAX. 3-DAY (Line 4a / Line 1)
-----	--

5b. SYSTEM AVAILABILITY BASED ON PERMIT (MAX. MONTH) (Line 4b / Line 1)

#### PROJECTED AVAILABLE CAPACITY (WITH FUTURE COMMITMENTS)

- 6. Total BCC-approved Active PUD commitments (Unbuilt per GMD PUD Master List)<sup>[4]</sup>
- 7a. Peak Flow Diversion (TDADF)<sup>[5]</sup>
- 7b. Peak Flow Diversion (MADF)<sup>[5]</sup>
- 8a. Projected Available Capacity (TDADF) (Line 1 Line 2a Line 6 Line 7a)
- 8b. Projected Available Capacity (MADF) (Line 1 Line 2b Line 6 Line 7b)

#### CURRENT AVAILABILITY WITH FUTURE COMMITMENTS

9a.	SYSTEM AVAILABILITY BASED ON MAX. 3-DAY (Line 8a / Line 1)	
-----	--	--

9b. SYSTEM AVAILABILITY BASED ON PERMIT (MAX. MONTH) (Line 8b / Line 1)

#### FUTURE AVAILABLE CAPACITY (WITH EXPANSIONS)

- 10a. Expansions Within Next 12 Months (MADF)
- 10b. Expansions Within Next 12-24 Months (MADF)
- 11a. Future Available Capacity (TDADF) (Line 8a + Line 10a + Line 10b)
- 11b. Future Available Capacity (MADF) (Line 8b + Line 10a + Line 10b)

#### FUTURE AVAILABILITY WITH EXPANSIONS

#### 12a. SYSTEM AVAILABILITY BASED ON MAX. 3-DAY (Line 11a / Line 1)

12b. SYSTEM AVAILABILITY BASED ON PERMIT (MAX. MONTH) (Line 11b / Line 1)

Million Gallons per Day (MGD)			
WASTEWATER <sup>[1]</sup>			
NORTH	SOUTH		
24.100	16.000		
16.734	18.985		
12.105	11.000		
3.500	(3.500)		
0.000	0.000		
3.866	0.515		
11.995	5.001		

16%	3%
50%	31%

#### Million Gallons per Day (MGD)

WASTEWATER <sup>[1]</sup>			
NORTH	SOUTH		
3.316	4.831		
4.120	(3.500)		
0.452	0.000		
(0.070)	(4.316)		
8.227	0.170		

0%	-27%
34%	1%

Million Gallons per Day (MGD)		
WASTEWATER <sup>[1]</sup>		
NORTH	SOUTH	
0.000	0.000	
0.000	0.000	
(0.070)	(4.316)	
8.227	0.170	

0%	-27%
34%	1%

#### COLLIER COUNTY WATER - SEWER DISTRICT SYSTEM UTILIZATION AND DIMINISHING CAPACITY REPORT ("CHECKBOOK") REGIONAL WASTEWATER SYSTEMS DATA: Current as of May 14, 2021

#### **FOOTNOTES/QUALIFIERS:**

- [1] Wastewater North and South shown separately because of the finite capacity of the interconnect.
- [2] Line 2a: Mo-Yr of Max. 3-Day Since May 2011 =>
- [3] Line 2b: Mo-Yr of Max. Month Since May 2011 =>

Aug-17	Sep-20
Feb-19	Sep-20

- [4] Capacity requested by outstanding active BCC-approved PUD units, as documented in the most current GMD PUD Master List. Built-out, closed-out, inactive, and discontinued PUD's are not included in line 5; only active PUD's are included. The outstanding PUD units are assumed to be developed before PUD closeout. Level of service for future commitments is defined by the latest rate study.
- [5] Wastewater flows can be diverted from the south service area to the NCWRF via the East and West Interconnects and associated pump station improvements. The East Interconnect is an existing 20" force main along Santa Barbara Blvd that can divert flows from MPSs 312.00 and 313.00 to MPS 104.00, which ultimately discharges to the NCWRF. The West Interconnect is a proposed 24" force main along Livingston Road that will divert flows from MPSs 305.00, 309.00, and 310.00 ultimately to the NCWRF. The West Interconnect is being constructed in phases and will become operational in FY 2022. Peak flows can be diverted to MPS 167.00 (Heritage Bay) by the 0.75 MGD OT master pump station and force mains along Oil Well Road and Immokalee Road. MPS 167.00 will have the capability of diverting wastewater flows from the north and/or south service areas to the future NEWRF. These interconnects provide the operational flexibility needed to manage the peak flows forecasted by the Checkbook.

### **COLLIER COUNTY WATER - SEWER DISTRICT** SYSTEM UTILIZATION AND DIMINISHING CAPACITY REPORT ("CHECKBOOK")

#### SUB-REGIONAL WASTEWATER SYSTEMS

DATA: Current as of May 14, 2021

INTRODUCTION: The Checkbook uses the historical maximum 3-day average daily flow (TDADF), monthly average daily flow (MADF), and 3month average daily flow (TMADF) from the last 10 years as baseline scenarios. Unbuilt future commitments are then multiplied by standard peaking factors and added to the baselines to arrive at worst-case scenarios for future operational requirements.

	Million Gallons	per Day (MGD)
	WASTE	WATER
CURRENT AVAILABLE CAPACITY (BASED ON HISTORICAL EXTREME EVENT)	NORTHEAST	CENTRAL
1. Existing Permitted/Operational Plant Capacity per 2020 AUIR (TMADF)	0.750	1.800
2a. 10-Year Maximum TDADF <sup>[1]</sup>	0.835	n/a
2b. 10-Year Maximum MADF <sup>[2]</sup>	0.647	1.548
2c. 10-Year Maximum TMADF <sup>[3]</sup>	0.512	1.368
3a. Twin Eagles Diversion (TDADF) (-0.11(Line 2a)) <sup>[4]</sup>	(0.092)	n/a
3b. Twin Eagles Diversion (MADF) (-0.11(Line 2b)) <sup>[4]</sup>	(0.071)	n/a
3c. Twin Eagles Diversion (TMADF) (-0.11(Line 2c)) <sup>[4]</sup>	(0.056)	n/a
3d. Peak Flow Diversion (TDADF) (Line 1 - Line 2a - Line 3a) (-0.75 min., 0 max.) <sup>[6]</sup>	0.000	n/a
3e. Peak Flow Diversion (MADF) (Line 1 - Line 2b - Line 3b) (-0.75 min., 0 max.) <sup>[6]</sup>	0.000	n/a
3f. Peak Flow Diversion (TMADF) (Line 1 - Line 2c - Line 3c) (-0.75 min., 0 max.) <sup>[6]</sup>	0.000	n/a
4a. Current Available Diminishing Capacity (TDADF) (Line 1 - Line 2a - Line 3a - Line 3d)	0.006	n/a
4b. Current Available Diminishing Capacity (MADF) (Line 1 - Line 2b - Line 3b - Line 3e)	0.174	0.252
4c. Current Available Diminishing Capacity (TMADF) (Line 1 - Line 2c - Line 3c - Line 3f)	0.294	0.432

#### CURRENT AVAILABILITY WITHOUT FUTURE COMMITMENTS

5a. SYSTEM AVAILABILITY BASED ON MAX. 3-DAY (Line 4a / Line 1)		1%	
5b. SYSTEM AVAILABILITY BASED ON MAX. MONTH (Line 4b / Line 1)		23%	
5c. SYSTEM AVAILABILITY BASED ON MAX. 3-MONTH (Line 4c / Line 1)		39%	
	-		

#### **PROJECTED AVAILABLE CAPACITY (WITH FUTURE COMMITMENTS)**

- 6. Total BCC-Approved, Active PUD Commitments (Unbuilt per GMD PUD Master List)<sup>[5]</sup>
- 7a. Peak Flow Diversion (TDADF) (Line 1 Line 2a Line 3a Line 6) (-0.75 min., 0 max.)<sup>[6]</sup>
- 7b. Peak Flow Diversion (MADF) (Line 1 Line 2b Line 3b Line 6) (-0.75 min., 0 max.)<sup>[6]</sup>
- 7c. Peak Flow Diversion (TMADF) (Line 1 Line 2c Line 3c Line 6) (-0.75 min., 0 max.)<sup>[6]</sup>
- 8a. Projected Available Capacity (TDADF) (Line 1 Line 2a Line 3a Line 6 Line 7a)
- 8b. Projected Available Capacity (MADF) (Line 1 Line 2b Line 3b Line 6 Line 7b)
- 8c. Projected Available Capacity (TMADF) (Line 1 Line 2c Line 3c Line 6 Line 7c)

#### CURRENT AVAILABILITY WITH FUTURE COMMITMENTS

9a.	SYSTEM AVAILABILITY BASED ON MAX. 3-DAY (Line 8a / Line 1)
	ATTACKED A CALL AND A

9b. SYSTEM AVAILABILITY BASED ON MAX. MONTH (Line 8b / Line 1) 9c. SYSTEM AVAILABILITY BASED ON MAX. 3-MONTH (Line 8c / Line 1)

#### **FUTURE AVAILABLE CAPACITY (WITH EXPANSIONS)**

- 10a. Expansions Within Next 12 Months (TMADF)
- 10b. Expansions Within Next 12-24 Months (TMADF)
- 11a. Future Available Capacity (TDADF) (Line 8a + Line 10a + Line 10b)
- 11b. Future Available Capacity (MADF) (Line 8b + Line 10a + Line10b)
- 11c. Future Available Capacity (TMADF) (Line 8c + Line 10a + Line 10b)

#### FUTURE AVAILABILITY WITH EXPANSIONS

12a. SYSTEM AVAILABILITY BASED ON MAX. 3-DAY (Line 11a / Line 1) 12b. SYSTEM AVAILABILITY BASED ON MAX. MONTH (Line 11b / Line 1) 12c. SYSTEM AVAILABILITY BASED ON MAX. 3-MONTH (Line 11c / Line 1)

1%	n/a
23%	14%
39%	24%

Million Gallons per Day (MGD)

WASTEWATER	
NORTHEAST	CENTRAL
0.626	0.006
(0.620)	n/a
(0.452)	n/a
(0.332)	n/a
0.000	n/a
0.000	0.246
0.000	0.426

0%	n/a
0%	14%
0%	24%

WASTEWATER	
NORTHEAST	CENTRAL
0.000	0.000
1.500	0.000
1.500	n/a
1.500	0.246
1.500	0.426

200%	n/a
200%	14%
200%	24%

### COLLIER COUNTY WATER - SEWER DISTRICT SYSTEM UTILIZATION AND DIMINISHING CAPACITY REPORT ("CHECKBOOK")

SUB-REGIONAL WASTEWATER SYSTEMS

Sep-17

Sep-17

Oct-17

n/a Aug-17

Sep-16

DATA: Current as of May 14, 2021

#### FOOTNOTES/QUALIFIERS:

- [1] Line 2a: Mo-Yr of Max. 3-Day per Available Data Since May 2011 =>
- [2] Line 2b: Mo-Yr of Max. Month per Available Data Since May 2011 =>
- [3] Line 2c: Mo-Yr of Max. 3-Month per Available Data Since May 2011 =>
- [4] The sub-regional Northeast Utility Facilities (former OTU) previously served all customers in the Orange Tree and Orange Blossom Ranch PUDs as well as the Twin Eagles subdivision, but flow from Twin Eagles was diverted to the NCWRF wastewater collection/transmission system in May 2019. Since the historical max. wastewater flows occurred prior to any services being transferred, values are reduced by eleven percent (11%) based on billing data from September 2017, the month in which the maximums occurred.
- [5] Capacity requested by outstanding active BCC-approved PUD units, as documented in the most current GMD PUD Master List. Built-out, closed-out, inactive, and discontinued PUD's are not included in line 5; only active PUD's are included. The outstanding PUD units are assumed to be developed before PUD closeout. Level of service for future commitments is defined by the latest rate study.
- [6] Peak flows and effluent will be diverted to the NCWRF by the 0.75 MGD OT pump station and Oil Well Road force main; Heritage Bay master pump station; and new and existing force mains along Oil Well Rd, Immokalee Rd, Logan Blvd, Vanderbilt Beach Rd, and Goodlette-Frank Rd.

#### EXHIBIT "A" COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS FISCAL YEARS 2022-2026

WASTEWA	TER TREATMENT SYSTEM PROJECTS							
		CONSTRUCTION	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
CIE #	PROJECT	SCHEDULE NOTES	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTAL
	Debt Service		\$11,681,000	\$13,710,000	\$13,716,000	\$13,038,000	\$11,414,000	\$63,559,000
	Expansion Related Projects - Other		\$80,800,000	\$0	\$0	\$0	\$105,937,000	\$186,737,000
	Replacement & Rehabilitation Projects - Other		\$50,277,000	\$37,035,000	\$39,985,000	\$37,875,000	\$38,130,000	\$203,302,000
	Departmental Capital		\$550,000	\$561,000	\$572,000	\$583,000	\$595,000	\$2,861,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$2,169,000	\$3,704,000	\$3,999,000	\$3,788,000	\$3,813,000	\$17,473,000
	WASTEWATER TREATMENT SYSTEM PROJECT TOTALS		\$145,477,000	\$55,010,000	\$58,272,000	\$55,284,000	\$159,889,000	\$473,932,000

REVENUE KEY - REVENUE SOURCE	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTAL
SIF - Wastewater System Development Fees / Impact Fees	\$7,900,000	\$7,900,000	\$7,900,000	\$7,900,000	\$7,900,000	\$39,500,000
B1 - Bonds/ Loans	\$97,050,000	\$0	\$0	\$0	\$105,937,000	\$202,987,000
Cares Act Funding	\$7,000,000	\$0	\$0	\$0	\$0	\$7,000,000
SCA - Wastewater Capital Account - Transfers	\$550,000	\$561,000	\$572,000	\$583,000	\$595,000	\$2,861,000
REV - Rate Revenue	\$32,977,000	\$46,549,000	\$49,800,000	\$46,801,000	\$45,457,000	\$221,584,000
REVENUE TOTAL	\$145,477,000	\$55,010,000	\$58,272,000	\$55,284,000	\$159,889,000	\$473,932,000

NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Revenue sources are estimates only; both the mix of sources and amounts will change when a rate study is conducted.

#### DATA SOURCES:

Expansion Related and Replacement & Rehabilitation Projects:

FY 2022 is obtained from the 2022 Proposed Budget for R&R projects. Expansion projects require additional funding and therefore not included in the budget. FY 2023 to FY 2026 are estimated project costs.

FT 2023 to FT 2020 are estimated project cos

#### Department Capital:

FY 2022 is obtained from the 2022 Proposed Budget, split 50/50 between Water and Wastewater. FY 2023 to FY 2026 are 2% increases over each fiscal year (pursuant to CPI adjustments per Board policy).

#### Debt Service:

All years are obtained from the current Collier County Water-Sewer District Financial Statements and Other Reports including Summary of Debt Service requirements to maturity. Total Debt Service amount is split 50/50 between Water and Wastewater.

Reserve for Contingencies - Replacement and Rehabilitation Projects: As per Florida Statues, reserve for contingencies is up to 10% of expenses.

CIE consistent with Board-approved FY22 budget

#### APPENDIX H FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY FISCAL YEARS 2027 - 2031

WASTEW	ATER PROJECTS							
			\$ AMOUNT					
CIE #	PROJECT	SCHEDULE NOTES	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	TOTAL
	Debt Service		\$10,075,000	\$9,891,000	\$10,256,000	\$10,674,000	\$10,670,000	\$51,566,000
	Expansion Related Projects - Other		\$0	\$7,500,000	\$0	\$0	\$0	\$7,500,000
	Replacement & Rehabilitation Projects - Other		\$33,140,000	\$31,770,000	\$32,770,000	\$33,270,000	\$31,770,000	\$162,720,000
	Departmental Capital		\$607,000	\$619,000	\$631,000	\$644,000	\$657,000	
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$3,314,000	\$3,177,000	\$3,277,000	\$3,327,000	\$3,177,000	
	WASTEWATER TREATMENT SYSTEM PROJECT TOTALS		\$47,136,000	\$52,957,000	\$46,934,000	\$47,915,000	\$46,274,000	\$241,216,000

REVENUE KEY - REVENUE SOURCE	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	TOTAL
SIF - Wastewater System Development Fees / Impact Fees	\$7,900,000	\$7,900,000	\$7,900,000	\$7,900,000	\$7,900,000	\$39,500,000
B1 - Bonds/ Loans	\$0	\$7,500,000	\$0	\$0	\$0	\$7,500,000
Cares Act Funding	\$0	\$0	\$0	\$0	\$0	\$0
SCA - Wastewater Capital Account - Transfers	\$607,000	\$619,000	\$631,000	\$644,000	\$657,000	
REV - Rate Revenue	\$38,629,000	\$36,938,000	\$38,403,000	\$39,371,000	\$37,717,000	
REVENUE TOTAL	\$47,136,000	\$52,957,000	\$46,934,000	\$47,915,000	\$46,274,000	\$241,216,000

NOTE: Figures provided for years six through ten are estimates of revenues versus project costs but do not constitute a long-term concurrency system. Revenue sources are estimates only; both the mix of sources and amounts will change when a rate study is conducted.

## SOLID WASTE DISPOSAL FACILITIES

## **CONTENTS**

- SOLID WASTE DISPOSAL FACILITIES 2021 SUMMARY
- APPENDIX "A" COLLIER COUNTY PEAK SEASON POPULATION ESTIMATES AND PROJECTIONS
- APPENDIX "B" TEN YEAR OF PERMITTED LANDFILL CAPACITY
- APPENDIX "C" TWO YEARS OF LINED CELL CAPACITY

Collier County 2021 Annual Update and Inventory Report on Public Facilities

## Solid Waste Disposal Facilities

## Annual Update and Inventory Report

July 8, 2021

### **CONTENTS**

Solid Waste Disposal Facilities 2021 AUIR Report Appendix A: Municipal Service Benefit Map Appendix B: Schedule of Collier County Landfill Disposal Capacity Appendix C: Collier County Landfill Permitted Disposal Capacity

### Solid Waste Disposal Facilities 2021 AUIR Report

#### Facility Type:

Solid Waste Disposal Facilities

#### Level of Service (LOS) Standard<sup>1</sup>:

Two (2) years of constructed lined cell capacity.

Ten (10) years of permittable capacity.

#### Collier County Landfill (CCLF) Capacity<sup>2</sup>:

Two (2) years of constructed lined cell capacity requirement:	546,258 Tons
Available lined cell capacity:	1,026,776 Tons
Ten (10) years of permittable capacity requirement:	2,902,259 Tons
Total remaining permitted capacity:	12,982,923 Tons
Estimated date of exhausted capacity:	39 Years or 2060

Collier County maintains two Municipal Services Benefit Units for Solid Waste, which are presented in Appendix A: District I and District II. Only municipal solid waste (MSW) generated in District I is disposed at the CCLF.

Appendix B presents a Schedule of Disposal Capacity at the CCLF and Appendix C presents calculations for lined, permitted and remaining landfill capacity at the CCLF.

It should be noted that the estimated date of exhausted capacity at the CCLF in the 2021 AUIR Report remains consistent with the estimated date in the 2020 AUIR Report.

#### Contracted Disposal Capacity

On June 12, 2001, Collier County executed a Disposal Capacity Agreement with Okeechobee Landfill, Inc. for 930,000 tons of disposal capacity at the Okeechobee Landfill (located in Okeechobee County, FL). MSW collected in District II is transferred from the Immokalee Transfer Station to the Okeechobee Landfill. For the purpose of demonstrating compliance with the LOS Standard of Solid Waste Disposal Facilities, it is assumed Collier County will renew, amend or enter into a new agreement, as necessary, and continue to transfer MSW generated in District II to the Okeechobee Landfill. If no MSW is diverted from District I and MSW generation in District II assumptions remain consistent, the remaining capacity is estimated to last through Fiscal Year 2043.

Remaining Contracted Capacity	620,903 Tons
Estimated Remaining Capacity <sup>3</sup>	23 Years or 2043
Okeechobee Landfill Life <sup>4</sup>	47 Years or 2068

#### NOTES:

- <sup>1</sup> Capital Improvement Element as of Resolution 2018-208 adopted November 13, 2018.
- <sup>2</sup> Assumptions for calculations: District I projected per capita disposal rate derived from historical data as applied to projected population growth (from AUIR Appendix). Reference Appendix C for calculation methodology.
- <sup>3</sup> Based on historical data trends and population growth.
- <sup>4</sup> Source: Report submitted to FDEP, dated March 14, 2021, "Annual Estimate of Remaining Life" by CEC for Berman Road Landfill (aka Okeechobee Landfill).

#### Landfill Airspace Preservation:

#### Landfill Operating Agreement (LOA)

In 1995, Collier County entered into a LOA, as amended with Waste Management Inc. of Florida (WMIF). The LOA is a life of site agreement that also includes post-closure care at the Immokalee Landfill and long-term the management of Collier County's Immokalee Transfer Station.

In accordance with the LOA, all landfill operating expenses incurred, including cell construction, permitting, closure and post-closure care are funded by WMIF. LOA expenses are paid from revenue generated from tipping fees.

Under the LOA:

- No debt is carried by Collier County
- Design/build/operate provisions ensure proper cell capacity
- WMIF maintains environmental liability
- Allows for 900 tons per day of MSW transfer from the CCLF to the Okeechobee Landfill

#### Integrated Solid Waste Management Strategy

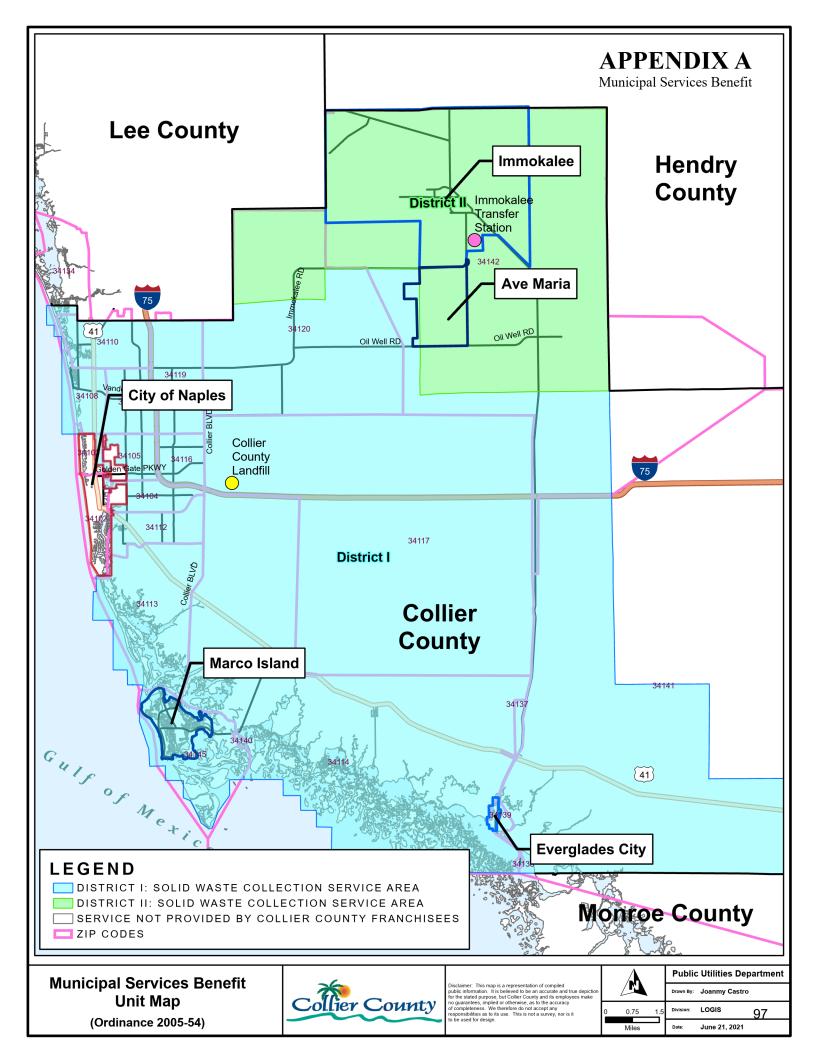
The Solid and Hazardous Waste Management Division continues to meet the current disposal needs of Collier County and plan for the long term solid and hazardous waste needs of Collier County with initiatives from the Integrated Solid Waste Management Strategy (approved by the BCC, 2006) based on the following components:

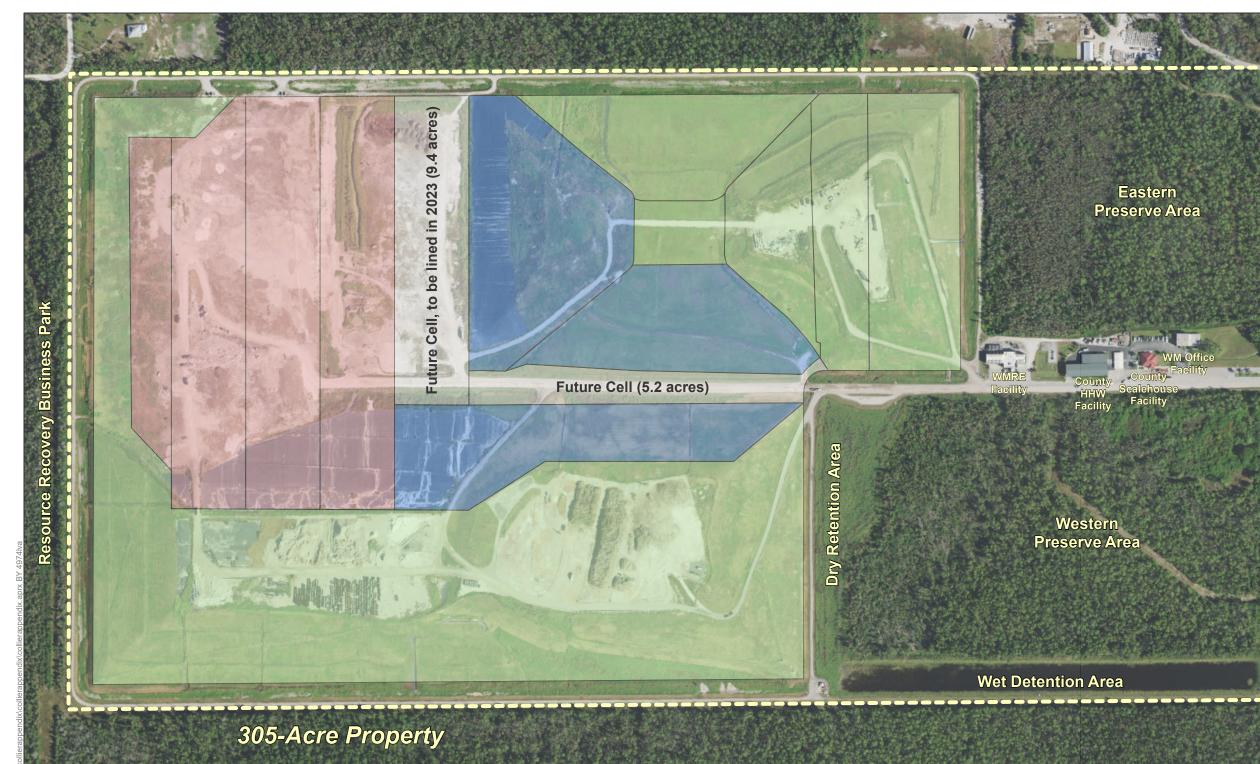
- Source Reduction
- Material Reuse and Recycling
- Diversion
- Optimizing Existing Assets and Resources

Collier County continues its' focus to achieve the BCC-approved Solid Waste Enduring Guiding Principles (e.g., Environmental and Growth Management Compliance, Airspace Preservation, Operational Excellence, Best Value Service), including efforts to reach the 2020 State mandated recycling goal of 75%. Notably, Collier County achieved a 74% recycling rate in Calendar Year 2020, as reported to the Florida Department of Environmental Protection; ranking 4<sup>th</sup> out of 67 counties in Florida. In addition, the Household Hazardous Waste Program collected approximately two (2) million pounds of household hazardous waste in Fiscal Year 2020. Lastly, the County's Recycling Drop-off Centers served over 70,000 customers of Collier County in Fiscal Year 2020.

#### **Recommended Action:**

The Public Utilities Department's staff recommends that the Collier County Board of County Commissioners find the 2021 AUIR in compliance with concurrency requirements in FS Section 163, the Collier County Comprehensive Plan and the Land Development Code and continue to support the Division's Integrated Solid Waste Management Strategy initiatives to increase recycling to reach the 75% State goal, to divert recyclables and hazardous waste from the CCLF and obtain appropriate means and methods of the various waste streams to support the needs of Collier County.





**APPENDIX B: Schedule of Collier County Landfill Disposal Capacity**  Original Landfill Permit (+/- 100')TotalFilledLinedUnlinedVertical Landfill Permit (+/- 200')All cells

## Cell Status

Filled to elevation +/- 100'

Lined, actively being filled

Lined, not actively being filled

Unlined

### **Total Area (Acres)**

- 132.7 acres
- 36.6 acres
- 14.6 acres

184 acres

### **Remaining Capacity (Tons)**

1,026,776

5,872,500

12,982,923 98 SCS ENGINEER

Appendix C: Collier County Landfill Permitted Disposal Capacity						
Level of Service Standard: Landfill Capacity at Projected Tons per Capita Disposal Rate						

1	2	3	4	5		6		7	8	9	10
Fiscal Year	Peak Population	Estimated Tons Per Capita Disposal Rate	Estimated Annual Tons Disposed	Collier County Landfill Permitted Capacity Balance (cy)		Estimated Average Compaction Rate (tons/cy)		Collier County Landfill Capacity Balance (tons)	Next Ten Years Landfill Capacity Requirement (tons)	Two Year Landfill Capacity Requirement (tons)	Available Lined Landfill Capacity (tons)
2020	414,569	0.63	261,775	17,695,070	х	0.75	=	13,271,303	2,812,413	559,038	1,136,305
2021	425,606	0.68	288,379	17,310,564	х	0.75	=	12,982,923	2,902,259	546,258	1,026,776
2022	433,321	0.62	270,659	16,949,686	х	0.75	=	12,712,264	2,942,511	556,103	756,118
2023	441,174	0.62	275,599	16,582,220	х	0.75	=	12,436,665	2,981,197	565,451	Cell A4
2024	449,167	0.62	280,504	16,208,215	х	0.75	=	12,156,161	3,018,387	573,815	scheduled for
2025	456,139	0.62	284,947	15,828,286	х	0.75	=	11,871,215	3,054,260	581,582	liner constrution
2026	462,319	0.62	288,868	15,443,129	х	0.75	=	11,582,347	3,089,080	589,325	
2027	468,582	0.62	292,714	15,052,844	х	0.75	=	11,289,633	3,122,947	597,170	
2028	474,929	0.62	296,611	14,657,362	х	0.75	=	10,993,022	3,155,838	604,784	
2029	481,359	0.62	300,559	14,256,617	х	0.75	=	10,692,463	3,187,726	611,798	
2030	487,166	0.62	304,225	13,850,984	х	0.75	=	10,388,238	3,218,690	618,485	
2031	492,491	0.62	307,573	13,440,886	х	0.75	=	10,080,664	3,248,838	625,196	
2032	497,874	0.62	310,911	13,026,337	х	0.75	=	9,769,753	3,278,200	631,979	
2033	503,315	0.62	314,285	12,607,291	х	0.75	=	9,455,468	3,306,760	638,513	
2034	508,813	0.62	317,694	12,183,699	x	0.75	=	9,137,774	3,334,502	644,507	
2035	513,854	0.62	320,819	11,755,939	х	0.75	=	8,816,955	3,361,729	650,269	
2036	518,480	0.62	323,688	11,324,356	х	0.75	=	8,493,267	3,388,717	656,083	
2037	523,148	0.62	326,582	10,888,914	х	0.75	=	8,166,685	3,415,462	661,949	
2038	527,858	0.62	329,501	10,449,579	х	0.75	=	7,837,184	3,441,957	667,636	
2039	532,610	0.62	332,447	10,006,316	х	0.75	=	7,504,737	3,468,196	672,911	
2040	537,033	0.62	335,189	9,559,397	х	0.75	=	7,169,548	3,494,404	677,995	
2041	541,118	0.62	337,722	9,109,101	х	0.75	=	6,831,826	3,520,812	683,119	
2042	545,236	0.62	340,274	8,655,403	x	0.75	=	6,491,552	3,547,419	688,281	
2043	549,384	0.62	342,845	8,198,277	х	0.75	=	6,148,707	3,574,228	693,482	
2044	553,564	0.62	345,436	7,737,696	x	0.75	=	5,803,272	3,601,239	698,722	
2045	557,775	0.62	348,046	7,273,634	х	0.75	=	5,455,226	3,628,456	704,002	
2046	562,019	0.62	350,676	6,806,066	х	0.75	=	5,104,550	3,655,879	709,322	
2047	566,295	0.62	353,326	6,334,965	х	0.75	=	4,751,224	3,683,510	714,683	
2048	570,603	0.62	355,996	5,860,303	х	0.75	=	4,395,227	3,711,350	720,084	
2049	574,944	0.62	358,687	5,382,054	х	0.75	=	4,036,541	3,739,402	725,526	
2050	579,318	0.62	361,397	4,900,191	х	0.75	=	3,675,143	3,767,666	731,010	
2051	583,726	0.62	364,129	4,414,686	х	0.75	=	3,311,014	3,796,144	736,534	
2052	588,167	0.62	366,881	3,925,512	х	0.75	=	2,944,134	3,824,838	742,101	
2053	592,642	0.62	369,654	3,432,640	х	0.75	=	2,574,480	3,853,750	747,710	
2054	597,150	0.62	372,448	2,936,043	х	0.75	=	2,202,032	3,882,881	753,362	
2055	601,694	0.62	375,263	2,435,693	х	0.75	=	1,826,770	3,912,233	759,056	
2056	606,271	0.62	378,099	1,931,561	х	0.75	=	1,448,671	3,941,807	764,794	
2057	610,884	0.62	380,957	1,423,618	х	0.75	=	1,067,714	3,971,606	770,575	
2058	615,531	0.62	383,837	911,836	х	0.75	=	683,877	4,001,630	776,400	
2059	620,214	0.62	386,738	396,185	х	0.75	=	297,139	4,031,882	782,269	
2060	624,933	0.62	389,661	(123,363)	х	0.75	=	0	4,062,364	788,182	

#### NOTES:

1 Reflects Collier County's Fiscal Year commencing on October 1 and ending on September 30.

2 County provided BEBR peak population for Municipal Service District I population.

3 Tons Per Capita Disposal Rate is the Estimated Annual Tons Disposed (Column 4) divided by the Peak Population (Column 2).

4 Estimated Annual Tons Disposed is the estimated tons to be landfilled based on historical disposal rates and peak population projections (Fiscal Year 2020 reflects actual tons disposed). Fiscal Year 2021 is based on scale house records through June 2021 and forecasted through September 30. It should be noted that Fiscal Year 2020 and 2021 were impacted by COVID in terms of MSW tonnage as well as sources (e.g., residential, commercial).

5 Total Landfill Capacity Balance (cy) for the Fiscal Year 2020 is derived from the 2021 Airspace Utilization Report performed by Carlson Environmental Consultants, PC for the approximate calendar year of 2020. Fiscal Year values for 2021 and beyond are estimated.

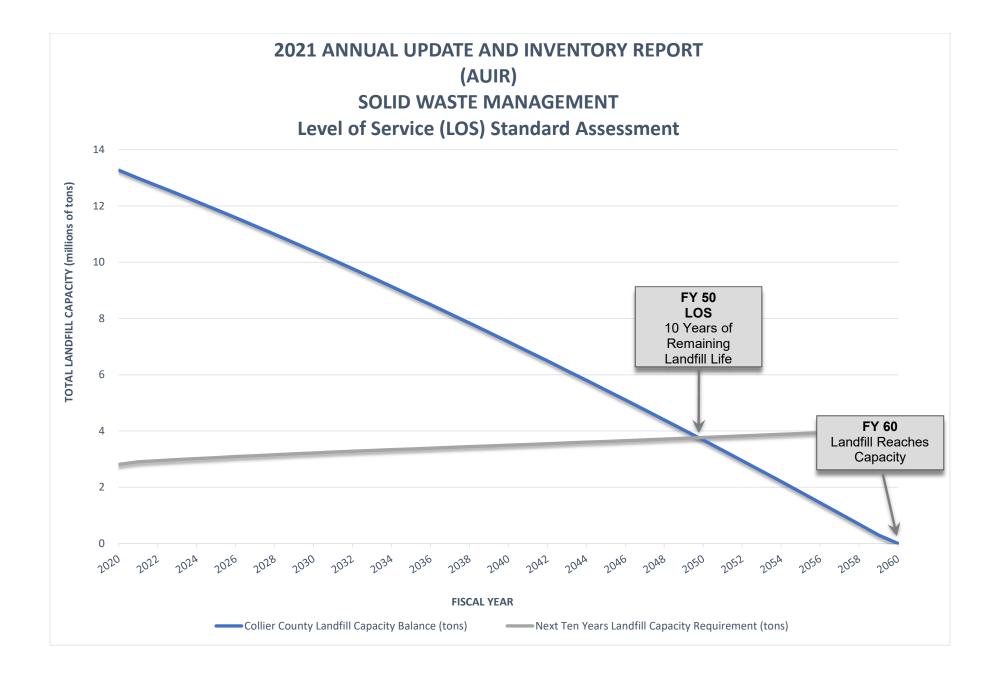
6 Estimated Average Compaction Rate of 0.75 tons/cy (1,500 lbs./cy) was determined by historical average. This value varies daily based upon waste composition, equipment and weather.

7 Collier County Landfill Capacity Balance (tons) is the previous year's Total Landfill Capacity Balance (Column 7) minus the Estimated Annual Tons Disposed (Column 4).

8 Next Ten Years Landfill Capacity Requirement (tons) is the sum of the next ten years of Estimated Annual Tons Disposed (Column 4).

9 Two Year Landfill Capacity Requirement (tons) is the sum of the next two years of Estimated Annual Tons Disposed (Column 4).

10 Available Lined Landfill Capacity (tons) is the previous year's Total Landfill Capacity Balance (Column 10) minus the Estimated Annual Tons Disposed (Column 4) at the Collier County Landfill and construction schedule for each new landfill cell.



## COLLIER COUNTY SCHOOL CAPITAL IMPROVEMENT PLAN

## **CONTENTS**

- SUMMARY OF DISTRICT SCHOOL BOARD OF COLLIER COUNTY CAPITAL IMPROVEMENT PLAN (CIP) FOR NEXT FIVE YEARS
- COUNTYWIDE SCHOOLS INVENTORY MAP

Collier County 2021 Annual Update and Inventory Report on Public Facilities





# **Capital Improvement Plan**

Fiscal Years 2022 through 2041 "Planning for the future"

May 18, 2021

## **Chapter 1**

## **Summary of 5 Year Capital Budget**

Chapter 103

## 5 Year Capital Budget Summary

Project	FY 2021 2022	FY 2022 2023	FY 2023 2024	FY 2024 2025	FY 2025 2026	Five Year Total
Capital Construction Program	2022	2025	2024	2025	2020	TOLAI
New Schools/Additions						
Future School Addition					19,000,000	19,000,000
High School GGG	700,000				, ,	700,000
Subtotal New Schools/Additions	700,000	0	0	0	19,000,000	19,700,000
Capital Maintenance/Renovations (see Chapter 6)						
Electrical	3,300,000	5,615,000	4,239,000	2,897,000	4,330,000	20,381,000
Emergency Maintenance Projects	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	15,000,000
Facilities Renovation Other	653,000	3,250,000	1,264,000	255,000	10,000	5,432,000
Facility Modifications/Special Needs	2,378,000	1,442,000	2,414,000	1,980,000	2,000,000	10,214,000
HVAC	11,988,000	10,780,000	14,625,000	13,515,000	17,373,000	68,281,000
Maintenance	2,718,000	2,656,000	2,686,000	2,656,000	2,656,000	13,372,000
Roads and Bridge	390,000	34,000	17,000	29,000	22,000	492,000
Roofing	5,000,000	6,450,000	4,875,000	5,325,000	7,990,000	29,640,000
School Maintenance and Renovations	5,396,000	2,462,000	2,765,000	3,614,000	2,067,000	16,304,000
Stage Curtain Replacements	120,000					120,000
Storm Mitigation and Security Improvements	169,000	214,000				383,000
Waste Water/Water Treatment Plant Maintenance and Repair	381,000	513,000	312,000	20,000	45,000	1,271,000
Subtotal Capital Maintenance/Renovations (see Chapter 6)	35,493,000	36,416,000	36,197,000	33,291,000	39,493,000	180,890,000
Subtotal Capital Construction Program	36,193,000	36,416,000	36,197,000	33,291,000	58,493,000	200,590,000
Other Items						
Site Acquisition/Asset Management						
Property Management	10,000	20,000	20,000	20,000	20,000	90,000
Site Acquisition	450,000					450,000

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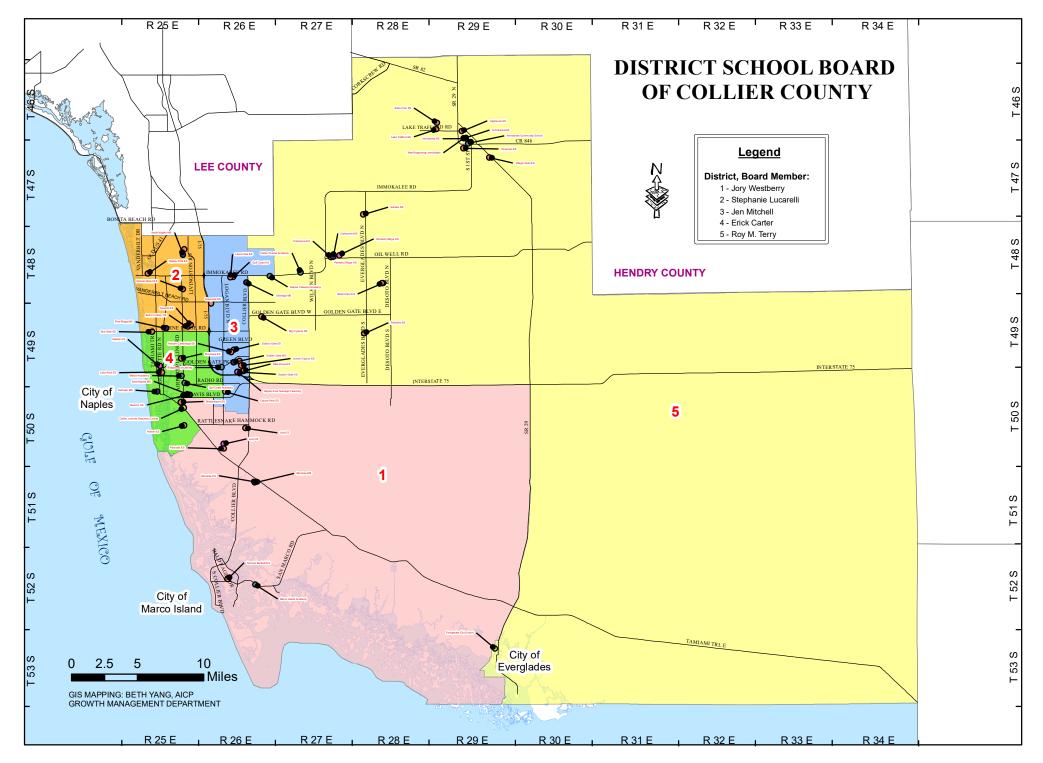
Deciset	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Five Year
Project	2022	2023	2024	2025	2026	Total
Transportation Facilities					10,000,000	10,000,000
Subtotal Site Acquisition/Asset Management	460,000	20,000	20,000	20,000	10,020,000	10,540,000
Health and Safety						
Access Control Enhancements	931,823	1,144,440	1,167,329	1,250,000	1,250,000	5,743,592
Fire Safety	559,000	559,000	559,000	559,000	559,000	2,795,000
Radio System Upgrades	200,000	200,000	200,000	200,000	200,000	1,000,000
Security Camera Installation/Repair	380,000	391,400	403,142	415,236	427,693	2,017,471
Security Camera Replacements/Additions	322,676	329,130	335,713	345,784	356,158	1,689,461
Subtotal Health and Safety	2,393,499	2,623,970	2,665,184	2,770,020	2,792,851	13,245,524
Portables						
Portable Leasing	788,000	788,000	788,000	788,000	788,000	3,940,000
Portable Renovation	30,000	30,000	30,000	30,000	30,000	150,000
Portable Setup	200,000	200,000			İ	400,000
Subtotal Portables	1,018,000	1,018,000	818,000	818,000	818,000	4,490,000
Technology (*Transfer to General)						
Classroom Technology Equipment *	7,610,000	8,255,000	8,245,000	9,795,000	12,265,000	46,170,000
Enterprise Software/Current Year	10,000	10,000	10,000	10,000	1,000,000	1,040,000
Enterprise Software/Prior Year	10,000,000					10,000,000
Technology Cabling	1,700,000	1,525,000	1,550,000	3,000,000	2,200,000	9,975,000
Technology Infrastructure *	4,070,000	4,050,000	4,820,000	4,895,000	5,185,000	23,020,000
Technology Retrofit *	1,378,000	1,418,000	1,604,000	1,764,000	1,839,000	8,003,000
Subtotal Technology (*Transfer to General)	24,768,000	15,258,000	16,229,000	19,464,000	22,489,000	98,208,000
Equipment and Vehicles (*Transfer to General)						
District Capital Equipment	200,000	250,000	300,000	350,000	350,000	1,450,000
Districtwide Equipment Transfer*	1,200,000	1,200,000	1,800,000	2,000,000	2,490,000	8,690,000
Equipment/Portables *	25,000	25,000	25,000	25,000	25,000	125,000
School Buses	4,208,323	4,844,263	5,024,153	5,342,618	5,666,607	25,085,964
Vehicles other than Buses	549,636	651,012	505,257	731,614	531,730	2,969,249

1-2

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Five Year
Project	2022	2023	2024	2025	2026	Total
Subtotal Equipment and Vehicles (*Transfer to General)	6,182,959	6,970,275	7,654,410	8,449,232	9,063,337	38,320,213
Planning and Staff Support						
Building & Equipment Maintenance Staff	11,475,072	12,200,000	13,500,000	14,100,000	15,250,000	66,525,072
Facilities Staff	1,962,720	2,100,000	2,320,000	2,500,000	2,750,000	11,632,720
Other Capital Staff	640,210	700,000	750,000	800,000	865,000	3,755,210
Permitting Services	275,000	275,000	175,000	175,000	300,000	1,200,000
Printing Services	50,000	50,000	25,000	25,000	50,000	200,000
Professional Services Retainer-Engineer/Architect/Other	150,000	150,000	150,000	150,000	150,000	750,000
Site/Facility Testing	200,000	300,000	100,000	100,000	200,000	900,000
Subtotal Planning and Staff Support	14,753,002	15,775,000	17,020,000	17,850,000	19,565,000	84,963,002
Carry Forward/Debt Service/Insurance/Transfer/Contingency						
Carry Forward for Subsequent Years	1,050,000	733,083	393,665	180,767	1,073,344	3,430,859
Charter School Capital Flow Thru	1,531,309	1,531,309	1,531,309	1,531,309	1,531,309	7,656,545
Debt Service	37,000,000	37,000,000	37,000,000	37,000,000	37,000,000	185,000,000
Property Insurance	5,000,000	5,200,000	5,400,000	6,000,000	6,500,000	28,100,000
Reserve for Future Schools/Current Year	15,600,000	15,600,000	15,580,000	15,580,000	15,580,000	77,940,000
Reserve for Future Schools/Prior Years	19,100,000					19,100,000
Reserve for Future Vehicles	3,600,000					3,600,000
Self-Insured Retention/Current Year	600,000	3,650,000	6,800,000	10,620,000	19,120,000	40,790,000
Self-Insured Retention/Prior Year	32,000,000					32,000,000
Transfer to General Maintenance	4,222,500	4,349,175	4,479,650	4,614,040	4,752,461	22,417,826
Transfer to Health and Safety Maintenance	707,997	666,392	695,891	703,909	737,889	3,512,078
Subtotal Carry Forward/Debt Service/Insurance/Transfer/Contingency	120,411,806	68,729,959	71,880,515	76,230,025	86,295,003	423,547,308
Subtotal Other Items	169,987,266	110,395,204	116,287,109	125,601,277	151,043,191	673,314,047
Total Projects	206,180,266	146,811,204	152 /8/ 100	159 902 277	209,536,191	873,904,047

## Summary of Estimated Revenue

Estimated Revenue	FY 2021 2022	FY 2022 2023	FY 2023 2024	FY 2024 2025	FY 2025 2026	Five Year Total
Local Sources						
Impact Fees	15,600,000	15,600,000	15,580,000	15,580,000	15,580,000	77,940,000
Interest Income	750,000	600,000	500,000	450,000	350,000	2,650,000
Interest Income Impact Fees	100,000	100,000	80,000	80,000	80,000	440,000
Capital Improvement Tax	119,526,216	125,355,778	131,631,355	138,202,584	189,359,280	704,075,213
Beginning Balance	800,000	1,050,000	733,083	393,665	180,767	3,157,515
Other	12,000	12,000	12,000	12,000	12,000	60,000
School Reserve Use Impact Fees	700,000					700,000
Future Vehicle Reserve Usage	549,636	651,012	505,257	731,614	531,730	2,969,249
CFWD of Designated Reserves	64,700,000					64,700,000
Subtotal Local Sources	202,737,852	143,368,790	149,041,695	155,449,863	206,093,777	856,691,977
State						
CO & DS	1,911,105	1,911,105	1,911,105	1,911,105	1,911,105	9,555,525
PECO Maint.						
Charter Capital Flow Thru	1,531,309	1,531,309	1,531,309	1,531,309	1,531,309	7,656,545
Subtotal State	3,442,414	3,442,414	3,442,414	3,442,414	3,442,414	17,212,070
Total	206,180,266	146,811,204	152,484,109	158,892,277	209,536,191	873,904,047



# COUNTY PARKS AND RECREATION FACILITIES

# **CONTENTS**

- COUNTY COMMUNITY AND REGIONAL PARK LANDS SUMMARY
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Collier County 2021 Annual Update and Inventory Report on Public Facilities

### 2021 AUIR SUMMARY COMMUNITY AND REGIONAL PARK LANDS

Facility Type: Community and Regional Park Land (Category A)									
Level of Service	e Standards (LOSS):	1.2 acres per 1,000/population (Community)							
		2.7 acres per 1,000/population (Regional)							
Unit Costs:	\$119,947 per acre*	(Community)							
	\$504,450 per acre*	(Regional)							

**Community Parks**: Using the Peak Season population for unincorporated area of the County, the following is set forth:

	Acres	Value
Available Inventory as of 9/30/2021	594.99	\$71,367,266
Required Inventory as of 9/30/2026	562.55 **	\$67,476,185
Proposed AUIR FY 2021/22-2025/26	<u>0.00</u>	<u>\$0</u>
5-year Surplus or (Deficit)	32.44	\$3,891,081

**Regional Parks**: Using the Countywide Peak Season population, the following is set forth:

Available Inventory as of 9/30/2021 Required Inventory as of 9/30/2026 Proposed AUIR FY 2021/22-2025/26 5-year Surplus or (Deficit)	1,561.71 1,400.22 *** <u>0.00</u> **** 161.49	\$787,804,610 \$706,340,979 <u>\$0</u> <b>\$81,463,631</b>
Expenditures Proposed AUIR FY 21/22-25/26 (value of) Acquisitions Debt Service Payments for 2011/2013 Bonds Debt Service Payments for 2019 Loan**** Total Expenditures		\$0 \$15,178,923 <u>\$16,613,917</u> <b>\$31,792,840</b>
Revenues Impact Fees anticipated Interest/Misc Grant/Reimbursement Available Cash for Future Projects/Payment of Debt Service Proposed added value through commitments, leases and governme Total Revenues	ntal transfers	\$52,124,500 \$1,060,000 \$0 \$5,264,600 \$0 <b>\$58,449,100</b>
Surplus or (Deficit) Revenues***** Revenues needed to maintain existing LOSS		\$26,656,260 none

# **Recommendation:**

That the BCC approve the proposed Community and Regional Park Lands AUIR and adopt the CIE Update for FY 2021/22- FY 2025/26.

### Notes:

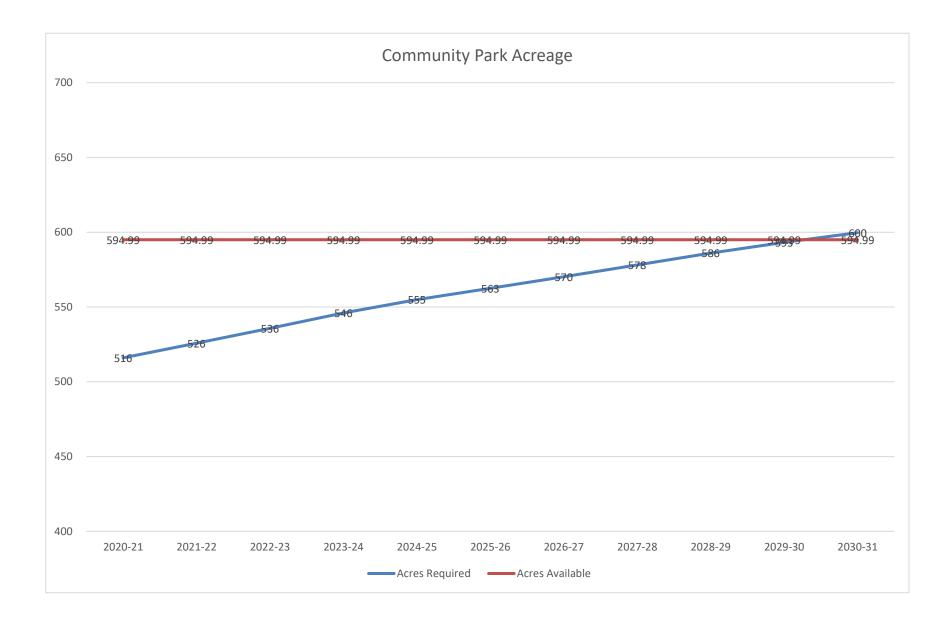
- Community Park Land and Regional Park Land Unit Cost values are based on the 2017 Impact Fee Study Update
- \*\* Peak Season population for the unincorporated area of the County of 468,791 x 0.0012 LOSS
   = 562.55 acres
- \*\*\* Countywide Peak Season population of 518,599 x 0.0027 LOSS = 1,400.22 acres
- 2019 Loan for GG Golf Course. The loan amount is the full annual debt service amount. The debt will be
   allocated once all or a portion of the property is re-purposed.
   Land purchase 1.75 acres Collier County Sports and Events Park FY21
- \*\*\*\*\* Reserved for future growth.

# 2021 AUIR

FISCAL	POPULATION	PARK ACRES	PARK ACRES	PARK ACRES	SURPLUS/	REQUIRED	TOTAL/VALUE
YEAR	UNINCORPORATED	REQUIRED	PLANNED	AVAILABLE *	(DEFICIENCY)	COST AT	AVAILABLE
		0.0012000	IN AUIR			\$119,947	\$119,947
2020-21	430,025	516.03	0.00	594.99	78.96	\$61,896,250	\$71,367,266
2021-22	438,196	525.84	0.00	594.99	69.15	\$63,072,930	\$71,367,266
2022-23	446,521	535.83	0.00	594.99	59.16	\$64,271,201	\$71,367,266
2023-24	455,003	546.00	0.00	594.99	48.99	\$65,491,062	\$71,367,266
2024-25	462,438	554.93	0.00	594.99	40.06	\$66,562,189	\$71,367,266
2025-26	468,791	562.55	0.00	594.99	32.44	\$67,476,185	\$71,367,266
1st 5-Year Growth (2022-2026)	38,766	46.52	0.00				
2026-27	475,237	570.28	0.00	594.99	24.71	\$68,403,375	\$71,367,266
2027-28	481,775	578.13	0.00	594.99	16.86	\$69,344,959	\$71,367,266
2028-29	488,409	586.09	0.00	594.99	8.90	\$70,299,737	\$71,367,266
2029-30	494,400	593.28	0.00	594.99	1.71	\$71,162,156	\$71,367,266
2030-31	499,731	599.68	0.00	594.99	(4.69)	\$71,929,817	\$71,367,266
2nd 5-Year Growth (2027-2031)	30,940	37.13	0.00				
Total 10-Year Growth (2022-2031)	69,706	83.65	0.00				

### Community Park Acres LOSS: 1.2 Acres/1000 Population

Note:



# Anticipated Changes in Community Park Land Inventory FY 21/22 to FY 30/31

FY	Action	Acquisition Type	Location	Acres	Value	Cash Expenditure
					\$119,947	
2021/22					\$0	
	, ,		FY 21/22 TOTAL	0	\$0	\$0
2022/23					\$0	
			FY 22/23 TOTAL	0	\$0	\$0
2023/24					\$0	\$0
	·		FY 23/24 TOTAL	0	\$0	\$0
2024/25					\$0	
			FY 24/25 TOTAL	0	\$0	\$0
2025/26					\$0	
			FY 25/26 TOTAL	0	\$0	\$0
		FY 21/22 TO FY 25/2	6 FIVE-YEAR SUBTOTAL	0	\$0	\$0
2026/27					\$0	
			FY 26/27 TOTAL	0	\$0	\$0
2027/28					\$0	
			FY 27/28 TOTAL	0	\$0	\$0
2028/29					\$0	
			FY 28/29 TOTAL	0	\$0	\$0
2029/30					\$0	
			FY 29/30 TOTAL	0	\$0	\$0
2030/31					\$0	
			FY 30/31 TOTAL	0	\$0	\$0
		EV 26/27 TO EV 20/2	1 FIVE-YEAR SUBTOTAL	0	\$0	\$0
		FT 20/27 TO FT 30/3	THVE-TEAR SUBTUTAL			<del>ې</del> ۵
		FY 21/22 TO FY	30/31 TEN-YEAR TOTAL	0	\$0	\$0

## 2021 AUIR

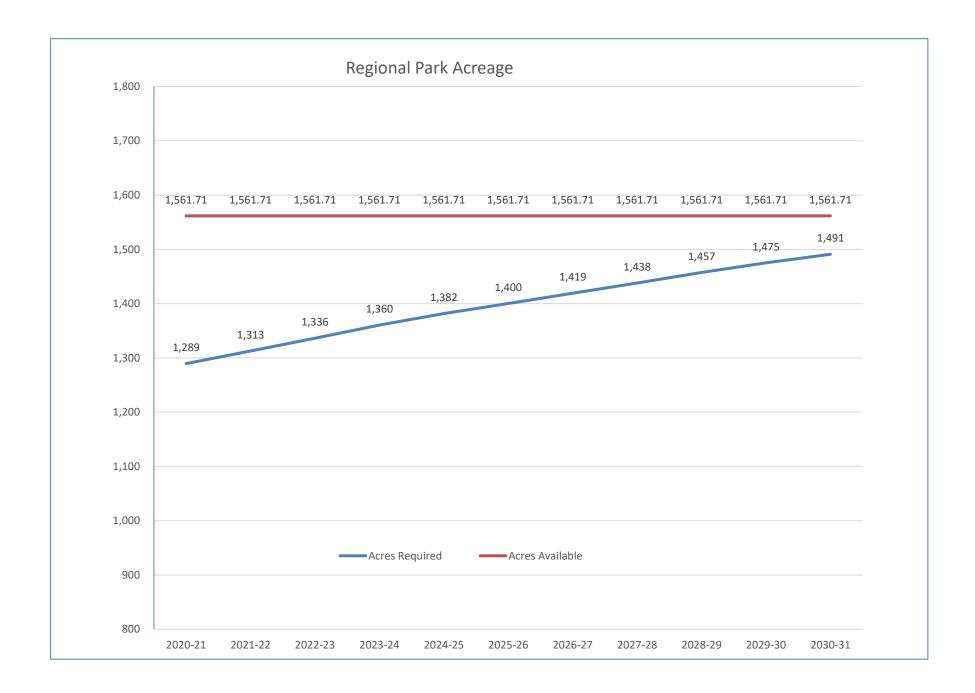
# **Regional Park Land Acres**

# LOSS: 2.7 Acres / 1000 Population

	POPULATION	FACILITIES	FACILITIES	PARK ACRES	PARK ACRES	REQUIRED	TOTAL/VALUE
FISCAL	CO-WIDE	REQUIRED	PLANNED	AVAILABLE*	SURPLUS/	COST AT	AVAILABLE
YEAR		0.0027000	IN AUIR		(DEFICIENCY)	\$504,450	\$504,450
2020-21	477,569	1,289.44	1.75	1,561.71	272.27	\$650,458,008	\$787,804,610
2021-22	486,166	1,312.65	0.00	1,561.71	249.06	\$662,166,293	\$787,804,610
2022-23	494,918	1,336.28	0.00	1,561.71	225.43	\$674,086,446	\$787,804,610
2023-24	503,826	1,360.33	0.00	1,561.71	201.38	\$686,218,469	\$787,804,610
2024-25	511,731	1,381.67	0.00	1,561.71	180.04	\$696,983,432	\$787,804,610
2025-26	518,599	1,400.22	0.00	1,561.71	161.49	\$706,340,979	\$787,804,610
1st 5-Year Growth (2022-2026)	41,030	110.78	0.00				
2026-27	525,559	1,419.01	0.00	1,561.71	142.70	\$715,819,595	\$787,804,610
2027-28	532,613	1,438.06	0.00	1,561.71	123.65	\$725,429,367	\$787,804,610
2028-29	539,761	1,457.35	0.00	1,561.71	104.36	\$735,160,208	\$787,804,610
2029-30	546,296	1,475.00	0.00	1,561.71	86.71	\$744,063,750	\$787,804,610
2030-31	552,199	1,490.94	0.00	1,561.71	70.77	\$752,104,683	\$787,804,610
2nd 5-Year Growth (2027-2031)	33,600	90.72	0.00				
Total 10-Year Growth (2022-2031)	74,630	201.50	0.00				

### Note:

Paradise Coast Sport Park land purchase 1.75 acres FY 21



# Anticipated Changes in Regional Park Land Inventory FY 21/22 to FY 30/31

FY	Action	Acquisition Type	Location	Acres	Value	Cash Expenditure
					\$504,450	
2021/22						
			FY 21/22 TOTAL	0.00	\$0	\$0
2022/23					\$0	
			FY 22/23 TOTAL	0.00	\$0	
2023/24					\$0	
			FY 23/24 TOTAL	0.00	\$0	
2024/25					\$0	
			FY 24/25 TOTAL	0.00	\$0	
2025/26					\$0	
			FY 25/26 TOTAL	0.00	\$0	
		FY 21/22 TO FY	25/26 FIVE-YEAR SUBTOTAL	0.00	\$0	\$0
	-				-	
2026/27					`	
	-		FY 26/27 TOTAL	0	\$0	
2027/28					\$0	
			FY 27/28 TOTAL	0	\$0	
2028/29					\$0	
	-		FY 28/29 TOTAL	0	\$0	
2029/30					\$0	
			FY 29/30 TOTAL	0	\$0	
2030/31					\$0	
			FY 30/31 TOTAL	0	\$0	\$0
					<b>A A</b>	<b>A</b> A
		FY 26/27 TO FY	30/31 FIVE-YEAR SUBTOTAL	0	\$0	\$0
		EV 21/22 T	O FY 30/31 TEN-YEAR TOTAL	0.00	\$0	\$0
			OTT SUSTIEN-TEAK TOTAL	0.00	<b>\$</b> 0	<b>پ</b> ۵

# Summary of Changes in Parks and Recreation Inventory FY 20 to FY 21

# Community Park Land Changes

Action	Location	Acres	Explanation
Remove	Hamilton Ave parcel	0.22	
NET CHANGE	TO COMMUNITY PARK ACREAGE	0.22	

# **Regional Park Land Changes**

Action	Location	Acres	Explanation
Add	Paradise Coast Park Acres	1.75	
NET CHANGE TO REGIONAL PARK ACREAGE		1.75	

# 2021 Collier County Park Land Inventory

Commissioner District	District	Location	Туре	Acreage	Community Park Acres	Neighborhood Park Acres	Regional Park Acres	Regional Park Pathway Acres	Concervation Preserve Acres
1	Marco	951 Boat Ramp	Regional	0.50			0.50		
1	Marco	Caxambas Park	Regional	4.20			4.20		
1	East Naples	Cindy Mysels CP	Community	5.00	5.00				
1	South Naples	Eagle Lakes CP	Community	32.00	32.00				
1	Marco	Goodland Boating Park	Regional	5.00			5.00		
1	Marco	Isle of Capri Land Parcel	Neighborhood	0.11		0.11			
1	Marco	Isles of Capri NP	Neighborhood	0.35		0.35			
1	Marco	Isles of Capri Paddlecraft Park	Regional	9.00			9.00		
1	South Naples	Manatee CP	Community	60.00	60.00				
1	Marco	Mar Good Harbor Park	Regional	2.50			2.50		
1	East Naples	Naples Manor NP	Neighborhood	0.30		0.30			
1	South Naples	Panther NP	Neighborhood	0.50		0.50			
1	South Naples	Port of The Islands	Regional	5.55			5.55		
1	Urban Estates	Rich King Greenway - (FPL)	Regional	37.50				37.50	
1	Central Naples	Rock Harbor Parcels	Neighborhood	0.10		0.10			
1	Marco	South Marco Beach Access	Regional	5.00			5.00	1	
1	Marco	Tigertail Beach Park	Regional	31.60		1	31.60		
2	North Naples	Barefoot Beach Access	Regional	5.00		+ +	5.00		
2	North Naples	Barefoot Beach Preserve	Regional	159.60			159.60		
2	North Naples	Barefoot Beach State Land	Regional	186.00			186.00		
2	North Naples	Clam Pass Park	Regional	35.00			35.00		
2	North Naples	Cocohatchee River Park	Regional	7.56			7.56		
2	North Naples	Conner Park	Regional	5.00			5.00		
2	North Naples	Naples Park Elementary	Community	5.00	5.00		3.00		
2	North Naples	North Collier RP	Regional	207.70	3.00		207.70		
2	North Naples	North Naples NP (Best Friendssurplus)	Neighborhood	0.36		0.36	201.10		
2	North Naples	Osceola Elementary	Community	3.20	3.20	0.30			
2	North Naples	Palm River NP	Neighborhood	3.00	5.20	3.00			
2	North Naples	Pelican Bay CP	Community	15.00	15.00	3.00			
2	North Naples	Vanderbilt Beach	Regional	5.00	13.66		5.00		
2	North Naples	Vanderbilt Beach Access (7 locations)		0.45			0.45		
2	North Naples	Validerbilt Beach Access (7 locations)	Community	43.64	43.64		0.45		
2	North Naples	Veterans Memorial Elementary	Community	4.00	4.00	1			
2	North Naples	Willoughby Park	Neighborhood	1.20	4.00	1.20			
3	Golden Gate	Aaron Lutz NP		3.20		3.20			
3			Neighborhood			3.20	105.05		
3	Golden Gate	Paradise Coast Sports Park	Regional	195.95	21.00		195.95		
	Golden Gate	Golden Gate Community Center	Community	21.00	21.00				
3	Golden Gate	Golden Gate CP	Community	35.00	35.00	++	167.00		
3	Golden Gate	Golden Gate Golf Course	Regional	167.00	2 00	++	167.00		
3	Golden Gate	Golden Gate Greenway / Pathway	Community	3.00	3.00	2.00			
3	North Naples		Neighborhood	2.00		2.00			
3	Golden Gate	Palm Springs NP	Neighborhood	6.70		6.70			
3	Golden Gate	Rita Eaton NP	Neighborhood	4.80	05.50	4.80			
3	North Naples	Vineyards CP	Community	35.50	35.50	╂──────┤	4.04		
4	East Naples	Bay Street Land Parcels	Regional	1.34		<u> </u>	1.34		
4	East Naples	Bayview Park	Regional	6.27			6.27		
4	Golden Gate	Coconut Circle NP	Neighborhood	1.20	4	1.20			
4	East Naples	East Naples CP	Community	47.00	47.00	Į			
4	Central Naples	Fred W. Coyle Freedom Park	Regional	25.16		ļ	25.16		
4	Central Naples	Gordon River Greenway Park	Regional	79.00			79.00		
4	Central Naples	Naples Zoo	Regional	50.00		ļ	50.00		
4	North Naples	North Gulfshore Beach Access	Regional	0.50			0.50		118

# 2021 Collier County Park Land Inventory

Commissioner District	District	Location	Туре	Acreage	Community Park Acres	Neighborhood Park Acres	Regional Park Acres	Regional Park Pathway Acres	Concervation Preserve Acres
4	North Naples	Poinciana NP	Neighborhood	0.30		0.30			
4	East Naples	Sugden RP	Regional	120.00			120.00		
5	Immokalee	Airport Park	Community	19.00	19.00				
5	Immokalee	Ann Oleski Park	Regional	2.30			2.30		
5	Urban Estates	Big Corkscrew Island RP	Regional	62.00			62.00		
5	Urban Estates	Big Corkscrew Island RP - Lake	Regional	90.00			90.00		
5	Urban Estates	Corkscrew Elementary/Middle	Community	16.90	16.90				
5	Immokalee	Dreamland NP - *School fenced in area	Neighborhood	0.50		0.50			
5	Immokalee	Eden Park Elementary	Community	2.80	2.80				
5	Immokalee	Immokalee CP	Community	23.00	23.00				
5	Immokalee	Immokalee High School	Community	1.00	1.00				
5	Immokalee	Immokalee South Park	Community	3.45	3.45				
5	Immokalee	Immokalee Sports Complex	Community	14.00	14.00				
5	Urban Estates	Livingston Woods NP (surplus)	Neighborhood	2.73		2.73			
5	Urban Estates	Max A Hasse CP	Community	20.00	20.00				
5	Immokalee	Oil Well Park	Neighborhood	5.50		5.50			
5	Urban Estates	Palmetto Elementary	Community	2.00	2.00				
5	Immokalee	Pepper Ranch	Regional	50.00			50.00		
5	Urban Estates	Randall Curve	Community	47.00	47.00				
5	Urban Estates	Sabal Palm Elementary	Community	9.50	9.50				
5	Immokalee	Tony Rosbough CP	Community	7.00	7.00				
5	Urban Estates	Vanderbilt Extension CP	Community	120.00	120.00				
1	Marco	McIlvane Marsh	Preserve	380.89					380.89
1	Marco	Otter Mound Preserve	Preserve	2.45					2.45
1	East Naples	Shell Island Preserve	Preserve	111.88					111.88
2	North Naples	Cochatchee Creek Preserve	Preserve	3.64					3.64
2	North Naples	Railhead Scrub Preserve	Preserve	135.36					135.36
2	North Naples	Wet Woods Preserve	Preserve	26.77					26.77
3	North Naples	Alligator Flag Preserve	Preserve	18.46		+ +		-	18.46
3	North Naples	Logan Woods Preserve	Preserve	6.78		+ +		-	6.78
4	Central Naples	Fred W. Coyle Freedom Park	Preserve	11.60		+ +		-	11.60
4 4	Central Naples	Gordon River Greenway	Preserve	50.51					50.51
5	Urban Estates	Camp Keais Strand	Preserve	32.50		+ +			32.50
5	Immokalee	Camp Reals Strand Caracara Prairie Preserve	Preserve	367.70		+ +			32.50
5	Urban Estates	Dr Robert H. Gore III	Preserve	171.21		+ +			171.21
5	Urban Estates	Nancy Payton Preserve	Preserve	71.00		+ +			71.00
5	Immokalee	Panther Walk Preserve	Preserve	10.69		+ +			10.69
5	Immokalee	Pepper Ranch Preserve	Preserve	2,511.90		+ +			2,511.90
5	Urban Estates	Red Maple Swamp Preserve	Preserve	2,311.90		+ +			2,311.90
5	Urban Estates	Redroot Preserve	Preserve	9.26		+ +			9.26
5	Urban Estates	Rivers Road Preserve	Preserve	76.74		+ +			76.74
5	Urban Estates	Winchester Head Preserve	Preserve	93.56		+ +			93.56
5	UIDAII LSIAICS	Total Collier Units	TESEIVE	6,498.80	594.99	32.85	1,524.18	37.50	4,309.28
		Regional Parks and Pathways		0,490.00	034.33	32.03	,	57.50	4,309.20

Totals	Community Park Acres	Neighborhood Park Acres	Regional Park Acres
Value per Unit	\$119,947		\$504,450
Total Value	\$71,367,266		\$787,789,476

Concervation Preserve Acres

			A
КЛІІЮ		Alitiac	Acroado
		a	ALLEAUE
	vip	anti 00	Acreage

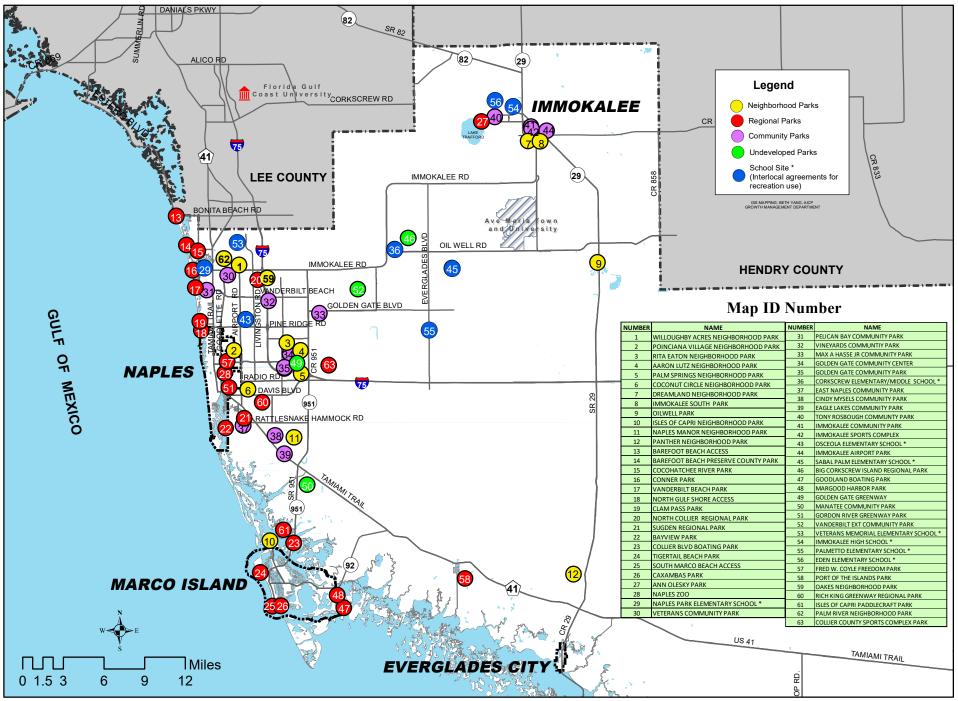
District	Location	Туре	Acreage	Community Park	Neighborhood Park	Regional Park	Regional Park Pathway
				Acres	Acres	Acres	Acres
City of Naples	Beach Accesses	Regional	0.50			0.50	
City of Naples	Naples Landings	Regional	3.81			3.81	
City of Naples	Fleischmann Park	Community	25.26	25.26			
City of Naples	Cambier Park	Community	12.84	12.84			
City of Naples	Baker Park	Regional	15.20			15.20	
City of Naples	Lowdermilk Park	Regional	10.30			10.30	
City of Naples	River Park CC	Community	1.61	1.61			
City of Naples	Naples Preserve	Regional	9.78			9.78	
City of Naples	Anthony Park	Neighborhood	7.00		7.00		
	Total Naples Units		86.30	39.71	7.00	39.59	0.00
City of Marco Island		Neighborhood	0.25		0.25		
City of Marco Island	Veterans' Memorial	Neighborhood	0.25		0.25		
City of Marco Island	Leigh Plummer	Neighborhood	3.50		3.50		
City of Marco Island	Racquet Center	Community	2.97	2.97			
City of Marco Island	Frank Mackle	Community	30.00	30.00			
City of Marco Island	Winterberry	Neighborhood	5.00		5.00		
	Total Marco Units		41.97	32.97	9.00	0.00	0.00
Everglades City	Community Park	Community	0.86	0.86			
<u> </u>	McLeod Park	Community		1.04			1
Everglades City	Total Everglades Units	Community	1.04 <b>1.90</b>	1.04 <b>1.90</b>	0.00	0.00	0.00
	Total Municipality Units	17	130.17	74.58	16.00	39.59	0.00

Notes: \*Not included in the inventory are those community and regional parks associated with the City of Naples and City of Marco Island. Within the City of Marco Island, the County operates three regional parks, which are included within the Counties regional park acreage inventory.

\*Park land and amenities located in Private communities are taken into consideration when planning new parks and facilities but cannot be counted as inventory due to lack of public access



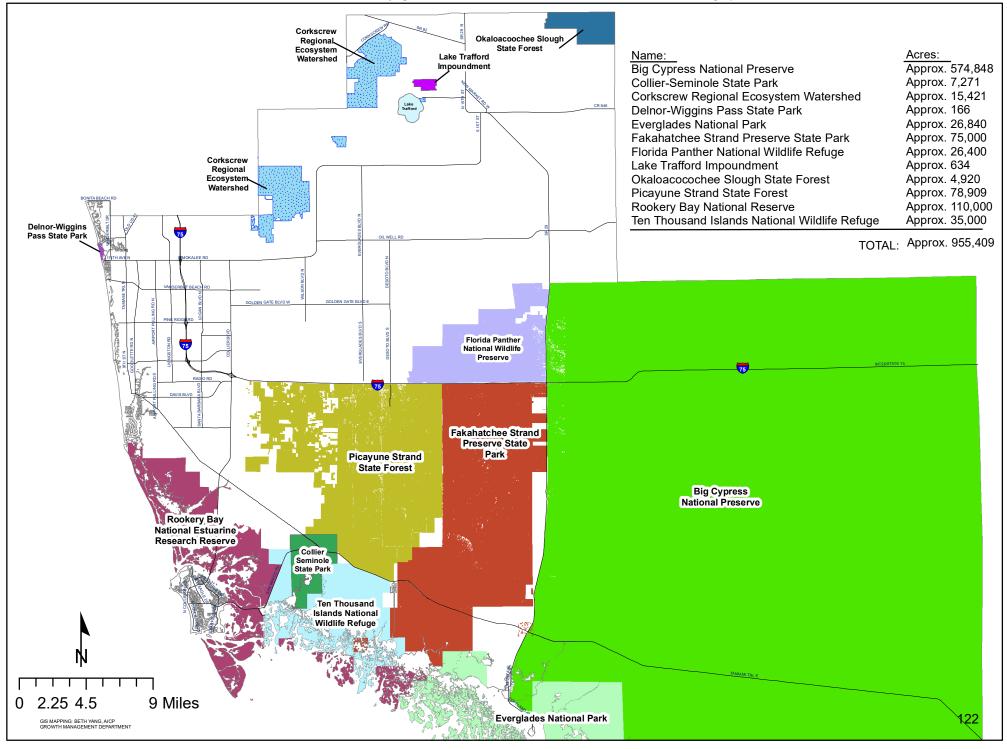
# 2021 PARKS INVENTORY





# FEDERAL AND STATE OWNED PARK LAND

(Disclaimer: The information provided is to be used for general mapping purposes only. Ground surveying and records search must be used for absolute boundaries/acreages)



# CAPITAL IMPROVEMENT ELEMENT (CIE) AMENDMENT SUBMITTALS FOR CATEGORY "A" FACILITIES

# **CONTENTS**

- EXHIBIT "A", SCHEDULE OF CAPITAL IMPROVEMENTS FOR NEXT 5 FISCAL YEARS
- APPENDIX "H", SCHEDULE OF CAPITAL IMPROVEMENTS FOR FUTURE FISCAL YEARS 6 – 10

Collier County 2021 Annual Update and Inventory Report on Public Facilities

#### EXHIBIT "A" COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS COST AND REVENUE SUMMARY TABLE FISCAL YEARS 2022-2026

The table below itemizes the types of public facilities and the sources of revenue. The "Revenue Amount" column contains the 5-Year amount of facility revenues. The right column is a calculation of expenses versus revenues for each type of public facility. All deficits are accumulated as a subtotal. The subtotal deficit is the source of additional revenue utilized by Collier County to fund the deficit in order to maintain the levels of service standards as referenced in the Capital Improvement Element.

Projects	Revenue Sources	Expenditure	Revenue Amount	Total
ARTERIAL & COLLE	CTOR ROADS AND BRIDGE PROJECTS			
Revenues:	IF - Impact Fees / COA Revenue		\$78,000,000	
	Sales Tax		\$140,525,000	
	Gas Tax GF - General Fund (001)		\$117,000,000 \$59,085,000	
	Grants/Reimbursements/DCAs/Interest		\$40,199,000	
	Unfunded Needs		\$87,731,000	
	Carry Forward		\$58,617,000	\$522,540,000
	RR - Revenue Reduction (less 5% required by law)		-\$10,002,000	
		_		\$48,615,000
Less Expenditures:		\$571,155,000	- · · · · · · · · · · · · · · · · · · ·	\$571,155,000
			Balance	\$0
POTABLE WATER S	YSTEM PROJECTS			
Revenues:	WIF - Water System Development Fees/Impact Fees		\$38,750,000	
	B - Bond Proceeds		\$54,707,000	
	Cars Act Funding		\$3,000,000	
	WCA - Water Capital Account REV - Rate Revenue		\$2,861,000 \$201,259,000	\$300,577,000
			\$201,203,000	\$500,577,000
Less Expenditures:		\$300,577,000		\$300,577,000
			Balance	\$0
WASTEWATER COLI	LECTION & TREATMENT SYSTEM PROJECTS			
Revenues:	SIF - Wastewater System Development Fees/Impact Fees		\$39,500,000	
	B - Bond Proceeds		\$202,987,000	
	Cares Act Funding		\$7,000,000	
	SCA - Wastewater Capital Account, Transfers REV - Rate Revenue		\$2,861,000 \$214,084,000	\$466,432,000
			φ214,004,000	
Less Expenditures:		\$466,432,000	Balance	\$466,432,000 \$0
SOLID WASTE DISPO	DSAL FACILITIES PROJECTS			
Revenues:	LTF - Landfill Tipping Fees		\$0	\$0
Less Expenditures:		\$0		\$0
Less Experiatures.		ψŪ	Balance	\$0 \$0
PARKS & RECREATI	ON FACILITIES PROJECTS			
Revenues:	IF - Impact Fees		\$50,724,400	
Revenues.	DIF - Deferred Impact Fees		\$0	
	GR - Grants / Reimbursements		\$0	
	IN - Interest		\$1,000,000	
	RR - Revenue Reduction (less 5% required by law) AC - Available Cash for Future Projects/Payment of Debt Service		\$0 \$4,576,300	
	TR - Added Value through Commitments, Leases & Transfers		\$0	
	GF - General Fund (001)		\$0	\$56,300,700
Less Expenditures:		\$25,575,400		\$56,300,700
STORMWATER MAN	AGEMENT SYSTEM PROJECTS		Balance	\$30,725,300
Boyopuos				
Revenues:	GR - Grants / Reimbursements		\$4,125,000	
	Transfer from 310		\$11,318,000	
	Unmet Funding Needs		\$118,875,000	
	Debt Funding 327		\$52,470,000	
	New Budget From 001 CF - Available Cash for Future Projects/Payment of Debt Service		\$13,390,000 -\$9,668,000	
	RR - Revenue Reduction (less 5% required by law)		-\$15,000	
	IN - Interest Revenue		\$235,000	
	GF - New Budget from Fund (111)		\$15,000,000	\$205,730,000
Less Expenditures:		\$205,730,000		\$205,730,000
			Balance	\$0
			TOTAL REVENUE	
TOTAL PROJECTS		\$1,569,469,400	SOURCES	\$1,600,194,700

# 2022 Year Work Program (Dollars shown in Thousands)

			100	and one of the		Thousands	<b>&gt;</b> /					
	Project Name											
Project	Name	FY22		FY23		FY24		FY25		FY26		FY 22-26
÷.	SUMMARY OF PROJECTS	Amount		Amount		Amount		Amount		Amount		Amount
60168	Vanderbilt Beach Rd/Collier Blvd-16th	104,500	С									104,5
60201	Pine Ridge Rd (Livingston to 175)	4,086	DR	25,200	DCM							29,20
60147	Randall/Immokalee Road Intersection	3,000	R	4,200	CM							7,20
60190	Airport Rd Vanderbilt Bch Rd to Immokalee Rd			15,700	CM							15,7
60212	47th Ave NE Bridge					750	D			8,300	С	9,0
60212	Wilson Blvd South Bridge					450	DR			3,950	С	4,4
60212	13th St NW Bridge			350	D			3,700	с			4,0
60212	62nd Ave NE Bridge					400	DR			3,850	с	4,2
60212	10th Ave SE Bridge			550	D			5,550	с			6,1
60228	Sidewalks	745	D	1,251	DVC	4,895	с					6,8
60198	Veterans Memorial PH I			-		-						-
60198	Veterans Memorial PH II	4,300	RD			14,831	СМ					19,1
60199		4,000	110			14,001	C.III	10 500				
	Vanderbilt Beach Rd (US41 to E of Goodlette)	4.500		500		4 000		13,500	DC	4 000		13,5
60129	Wilson Benfield Ext (Lord's Way to City Gate N)	1,500	RA	500	RA	1,000	RA	1,000	RA	1,000	RA	5,0
60144	Oll Well (Everglades to Oll Well Grade)	500	A	300	A	300	Α	300	Α	300	Α	1,7
70167	Business Center (City Gate)					9,500	с					9,5
68056	Collier Blvd (Green to South of GG Main Canal)	2,000	R	38,100	RDC							40,1
60065	Randall Blvd/8th to Everglades									3,000	D	3,0
60232	Belle Meade	30	м									
TBD	Goodlette Rd (VBR to Immokalee Rd)			2,750	D	634	Α	9,366	Α	2,643	Α	15.3
TBD	Green Blvd (Santa Barbara Blvd to Sunshine)	1		2,750	s	+	-	0,000	-	2,040	<b> </b>	13,3
		1 000		1		24 222	~					
60229	Wilson Blvd (GG Blvd to Immokalee)	1,000	DR	1,000	DR	21,800	c					23,8
60249	Vanderbilt Bch Rd (16th to Everglades)	8,190	DRM	5,860	RA	11,800	с					25,8
TBD	Golden Gate Parkway at Livingston	1				500	S			6,000	D	6,5
TBD	Rallhead Crossing			200	С							2
TBD	Poinciana Professional Park			300	С							3
TBD	Tree Farm PUD			450	с							4
TBD	Immokalee Rd at Livingston									6,000	D	6,0
60016	Intersections Improvements Shoulder Widening	3,200		1,800		2,575		950		675	_	9,2
		3,200				2,313				6/3		
60227	Corkscrew Rd (Lee County Line) Shoulders			1,200	с		-	7.070	~			1,2
TBD	Santa Barbara/Logan Turniane					879	D	7,879	с			8,7
60245	Logan Blvd N of Immk	2,600	С									2,6
												-
	Contingency	6,019										6,0
	Total	141,670		100,211		70,314		42,245		35,718		390,1
	Operations Improvements/Programs											-
66066	Bridge Repairs/Improvements	2,950		6,500		3,000		3,000		1,500		16,9
	Wall/Barrier Replacement	50		250		250		250		250		1,0
60131	Road Resurfacing 111/101	9,379 800		8,600		10,500		12,800		12,500		53,7
60077	Striping and Marking			800		800		800		800		4,0
	Traffic One Unarados/Enhancements									499		
60172	Traffic Ops Upgrades/Enhancements	1,429		1,120		1,210		2,195		433		6,3
60189	LED Replacement Program	1,429		1,120				-				
	LED Replacement Program Countywide Pathways/Sidewalks Non PIL /LAP					1,210 350 150		2,195 650 150		433 475 150		3,3
60189 60118	LED Replacement Program	1,429		1,120		350		650		475		3,3
60189 60118 60037 60197	LED Replacement Program Countywide Pathways/Sidewalks Non PIL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PIL	1,429 576 25 195		1,120 1,250 150 500		350 150 500		650 150 500		475 150 500		3,3 6 2,1
60189 60118 60037 60197	LED Replacement Program Countywide Pathways/Sidewalks Non PIL /LAP Asset Mgmt RM Facility Fund 310	1,429 576 25		1,120 1,250 150		350 150		650 150		475 150		3,3 6 2,1
60189 60118 60037 60197 69331-339	LED Replacement Program Countywide Pathways/Sidewalks Non PiL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PiL Subtotal Operations Improvements/Programs	1,429 576 25 195		1,120 1,250 150 500		350 150 500		650 150 500		475 150 500		3,3 6 2,1
60189 60118 60037 60197 69331-339 60066	LED Replacement Program Countywide Pathways/Sidewalks Non PIL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PIL Subtotal Operations Improvements/Programs Congestion Mgmt Fare	1,429 576 25 195 15,404		1,120 1,250 150 500 19,170		350 150 500 16,760		650 150 500 20,345		475 150 500		3,3 6 2,1 88,2
60189 60118 60037 60197 69331-339 60066 60240	LED Replacement Program Countywide Pathways/Sidewalks Non PiL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PiL Subtotal Operations Improvements/Programs	1,429 576 25 195	DC	1,120 1,250 150 500	DC	350 150 500	DC	650 150 500	DC S	475 150 500	DCs	3,3 6 2,1 
60189 60118 60037 60197 69331-339 60066 60240 60085 60088	LED Replacement Program Countywide Pathways/Sidewalks Non PiL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PiL Subtotal Operations Improvements/Programs Congestion Mgmt Fare Traffic Calming TIS Review PUD Monitoring	1,429 576 25 195 15,404 50		1,120 1,250 150 500 19,170 50		350 150 500 16,760		650 150 500 20,345 50		475 150 500 16,608 50 250	S	3,3 6 2,1 
60189 60118 60037 60197 69331-339 60066 60240 60085 60088 60109	LED Replacement Program Countywide Pathways/Sidewalks Non PiL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PiL Subtotal Operations Improvements/Programs Congestion Mgmt Fare Traffic Calming TIS Review PUD Monitoring Planning Consulting	1,429 576 25 195 15,404 50 250 400	s s	1,120 1,250 150 500 <u>19,170</u> 50 250 500	s	350 150 500 16,760 50 250 500	s s	650 150 500 20,345 50 250 500	s s	475 150 500 16,608 50 250 500	s s	3,3 6 2,1 - 88,2 - - 2 2 2,4
60189 60118 60037 60197 69331-339 60066 60240 60085 60085 60088 60109 60163	LED Replacement Program Countywide Pathways/Sidewalks Non PiL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PiL Subtotal Operations Improvements/Programs Congestion Mgmt Fare Traffic Calming TIS Review PUD Monitoring Planning Consulting Traffic Studies	1,429 576 25 195 15,404 50 250	S	1,120 1,250 150 500 19,170 50 250	S	350 150 500 16,760 50 250	S	650 150 500 20,345 50 250	S	475 150 500 16,608 50 250	s s	3,3 6 2,1
60189 60118 60037 60197 69331-339 60066 60240 60085 60088 60109 60163 60171	LED Replacement Program Countywide Pathways/Sidewalks Non PiL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PiL Subtotal Operations Improvements/Programs Congestion Mgmt Fare Traffic Calming TIS Review PUD Monitoring Planning Consulting Traffic Studies Mutti Project	1,429 576 25 195 15,404 50 250 400 300	s s s	1,120 1,250 150 500 <u>19,170</u> 50 250 500	s	350 150 500 16,760 50 250 500	s s	650 150 500 20,345 50 250 500	s s	475 150 500 16,608 50 250 500	s s	3,3 6 2,1 
60189 60118 60037 60197 69331-339 60066 60240 60085 60088 60109 60163 60171	LED Replacement Program Countywide Pathways/Sidewalks Non PiL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PiL Subtotal Operations Improvements/Programs Congestion Mgmt Fare Traffic Calming TIS Review PUD Monitoring Planning Consulting Traffic Studies Mutil Project Off-Rd Vehicles & Equip	1,429 576 25 195 15,404 50 250 400 300 100	S S S	1,120 1,250 150 500 <u>19,170</u> 50 250 500	s	350 150 500 16,760 50 250 500	s s	650 150 500 20,345 50 250 500	s s	475 150 500 16,608 50 250 500	s s	3,3 6 2,1 
60189 60118 60037 60197 69331-339 60066 60240 60085 60088 60109 60163 60171	LED Replacement Program Countywide Pathways/Sidewalks Non PiL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PiL Subtoal Operations Improvements/Programs Congestion Mgmt Fare Traffic Calming TiS Review PUD Monitoring Planning Consulting Traffic Studies Multi Project Off-Rd Vehicles & Equip Transfer to Fund 325 STO	1,429 576 25 195 15,404 50 250 400 300	S S S	1,120 1,250 150 500 <u>19,170</u> 50 250 500	s	350 150 500 16,760 50 250 500	s s	650 150 500 20,345 50 250 500	s s	475 150 500 16,608 50 250 500	s s	3,3 6 2,1 
60189 60118 60037 60197 69331-339 60066 60240 60085 60088 60109 60163 60171	LED Replacement Program Countywide Pathways/Sidewalks Non PiL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PiL Subtotal Operations Improvements/Programs Congestion Mgmt Fare Traffic Calming TIS Review PUD Monitoring Planning Consulting Traffic Studies Muttl Project Off-Rd Vehicles & Equip Transfer to Fund 325 STO Transfer to 712	1,429 576 25 195 15,404 50 250 400 300 11,318	s s	1,120 1,250 150 500 <u>19,170</u> 50 250 500	s	350 150 500 16,760 50 250 500	s s	650 150 500 20,345 50 250 500	s s	475 150 500 16,608 50 250 500	s s	3,3 6 2,1
60189 60118 60037 60197 69331-339 60066 60240 60085 60088 60109 60163 60171	LED Replacement Program Countywide Pathways/Sidewalks Non PIL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PIL Subtotal Operations Improvements/Programs Congestion Mgmt Fare Traffic Calming TiS Review PUD Monitoring Planning Consulting Traffic Studies Mutti Project Off-Rd Vehicles & Equip Transfer to Fund 325 STO Transfer to 712 Transfer to 712	1,429 576 25 195 15,404 50 250 400 300 100	s s	1,120 1,250 150 500 <u>19,170</u> 50 250 500	S S	350 150 500 16,760 50 250 500	s s	650 150 500 20,345 50 250 500	s s	475 150 500 16,608 50 250 500	5 5 5	3,3 6 2,1 
60189 60118 60037 60197 69331-339 60066 60240 60085 60088 60109 60163 60171	LED Replacement Program Countywide Pathways/Sidewalks Non PiL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PiL Subtotal Operations Improvements/Programs Congestion Mgmt Fare Traffic Calming TIS Review PUD Monitoring Planning Consulting Traffic Studies Muttl Project Off-Rd Vehicles & Equip Transfer to Fund 325 STO Transfer to 712	1,429 576 25 195 15,404 50 250 400 300 11,318 7,943	s s	1,120 1,250 150 500 19,170 50 250 500 300	S S S	350 150 500 16,760 50 250 500 300	s s	650 150 500 20,345 50 250 500 300	s s	475 150 500 16,608 50 250 500 300	5 5 5	3,3 6 2,1 
60189 60118 60037 60197 69331-339 60066 60240 60085 60088 60109 60163 60171	LED Replacement Program Countywide Pathways/Sidewalks Non PiL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PiL Subtotal Operations Improvements/Programs Congestion Mgmt Fare Traffic Calming TiS Review PUD Monitoring Planning Consulting Traffic Studies Multi Project Off-Rd Vehicles & Equip Transfer to Fund 325 STO Transfer to 712 Transfer to 712 Transfer to 712	1,429 576 25 195 15,404 50 250 400 300 11,318 7,943 195 13,200	5 5 5	1,120 1,250 150 500 19,170 500 250 500 300 250 13,261	5 5 5	350 150 500 16,760 500 250 500 300 250 300	s s	650 150 500 20,345 50 250 500 300 250 300	s s	475 150 500 16,608 50 250 500 300 250 300 13,000	5 5 5 5	3,3 6 2,1
60189 60118 60037 60197 69331-339 60066 60240 60085 60088 60109 60163 60171	LED Replacement Program Countywide Pathways/Sidewalks Non PiL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PiL Subtotal Operations Improvements/Programs Congestion Mgmt Fare Traffic Calming Tis Review PUD Monitoring Planning Consulting Traffic Studies Muti Project Off-Rd Vehicles & Equip Transfer to 712 Transfer to 370 Impact Fee Refunds	1,429 576 25 195 15,404 50 250 400 300 11,318 7,543 195	5 5 5	1,120 1,250 150 500 19,170 50 250 500 300	5 5 5	350 150 500 16,760 50 250 500 300	s s	650 150 500 20,345 50 250 500 300 250	s s	475 150 500 16,608 50 250 500 300	5 5 5 5	3,3 6 2,1
60189 60118 60037 60197 69331-339 60066 60240 60085 60088 60109 60163 60171 50233	LED Replacement Program Countywide Pathways/Sidewalks Non PiL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PiL Subtotal Operations Improvements/Programs Congestion Mgmt Fare Traffic Calming TIS Review PUD Monitoring Planning Consulting Traffic Studies Mutti Project Off-rd Vehicles & Equip Transfer to Fund 325 STO Transfer to 712 Transfer to 370 Impact Fee Refunds Debt Service Payments Total Funding Request All Funds	1,429 576 25 195 15,404 50 250 400 300 11,318 7,943 195 13,200	5 5 5	1,120 1,250 150 500 19,170 500 250 500 300 250 13,261	5 5 5	350 150 500 16,760 500 250 500 300 250 300	s s	650 150 500 20,345 50 250 500 300 250 300	s s	475 150 500 16,608 50 250 500 300 250 300 13,000	5 5 5 5	6,3 3,3 6 2,1: - - - 2,4 1,5 - - - 2,4 1,5 - - 1,1 - 66,7 571,1
60189 60118 60037 60197 69331-339 60066 60240 60085 60088 60163 60171 50233	LED Replacement Program Countywide Pathways/Sidewalks Non PiL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PiL Subtotal Operations Improvements/Programs Congestion Mgmt Fare Traffic Calming TIS Review PUD Monitoring Planning Consulting Traffic Studies Mutti Project Off-Rd Vehicles & Equip Transfer to Fund 325 STO Transfer to 712 Transfer to 713 Transfer to 714 Transfer to 716 Total Funding Request All Funds	1,429 576 25 195 15,404 50 250 400 300 11,318 7,543 513,200 190,830	5 5 5	1,120 1,250 150 500 19,170 50 250 500 300 250 13,261 133,992	5 5 5	350 150 500 16,760 500 250 500 300 250 13,671 102,095	s s	650 150 500 20,345 50 250 500 300 250 300 300 250 13,622 77,562	s s	475 150 500 16,608 50 250 500 300 250 300 300 250 13,000 66,676	5 5 5 5	3,3 6 2,1 1,2 1,2 1,2 1,2 1,2 1,2 1,1, 11,3 11, 66,1 571,
60189 60118 60037 60197 69331-339 60066 60240 60085 60088 60109 60163 60171 50233	LED Replacement Program Countywide Pathways/Sidewalks Non PiL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PiL Subtotal Operations Improvements/Programs Congestion Mgmt Fare Traffic Calming TiS Review PUD Monitoring Planning Consulting Traffic Studies Mutti Project Off-Rd Vehicles & Equip Transfer to Fund 325 STO Transfer to 712 Transfer to 712	1,429 576 25 195 15,404 50 250 400 300 11,318 7,943 155 13,200 190,830 81,831	5 5 5	1,120 1,250 150 500 19,170 50 250 500 300 13,261 133,992 27,565	5 5 5	350 150 500 16,760 50 250 500 300 250 13,671 102,095 6,495	s s	650 150 500 20,345 50 250 500 300 250 13,622 77,562 9,250	s s	475 150 500 16,608 50 250 500 300 13,000 66,676 15,384	5 5 5 5	3,3 6 2,1 88,2 1,2 1,2 1,2 2,4 1,5 5 7,1, 66, 571, 140,
60189 60118 60037 60197 69331-339 60066 60240 60085 60085 60085 60088 60109 60163 60171 50233 8 REVENUE Sales Tax impact Fee	LED Replacement Program Countywide Pathways/Sidewalks Non PiL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PiL Subtotal Operations Improvements/Programs Congestion Mgmt Fare Traffic Calming TIS Review PUD Monitoring Pianning Consulting Traffic Studies Muti Project Off-Rd Vehicles & Equip Transfer to 712 Transfer to 712 Transfer to 712 Transfer to 712 Transfer to 712 Transfer to 712 Transfer to 713 Impact Fee Refunds Debt Service Payments Total Funding Request All Funds	1,429 576 25 195 15,404 50 250 400 300 11,318 7,543 513,200 190,830	5 5 5	1,120 1,250 150 500 19,170 50 250 500 300 250 13,261 133,992	5 5 5	350 150 500 16,760 500 250 500 300 250 13,671 102,095	s s	650 150 500 20,345 50 250 500 300 250 300 300 250 13,622 77,562	s s	475 150 500 16,608 50 250 500 300 250 300 300 250 13,000 66,676	5 5 5 5	3,3 6 2,1 1,2 1,2 1,2 2,4 1,5 1, 1, 66, 571,
60189 60118 60037 60197 69331-339 60066 60240 60085 60088 60109 60163 60171 50233	LED Replacement Program Countywide Pathways/Sidewalks Non PiL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PiL Subtotal Operations Improvements/Programs Congestion Mgmt Fare Traffic Calming TIS Review PUD Monitoring Planning Consulting Traffic Studies Muti Project Off-Rd Vehicles & Equip Transfer to Fund 325 STO Transfer to 712 Transfer to 712 Transfer to 730 Impact Fee Refunds Debt Service Payments Total Funding Request All Funds	1,429 576 25 195 15,404 50 250 400 300 11,318 7,943 135 13,200 190,830 81,831 16,000	5 5 5	1,120 1,250 150 500 250 500 300 250 13,261 133,992 27,565 15,500	5 5 5	350 150 500 16,760 50 250 500 300 250 300 250 13,671 102,095 6,495 15,500	s s	650 150 500 20,345 50 250 500 300 250 13,622 77,562 9,250 15,500	s s	475 150 500 16,608 500 250 500 300 250 13,000 66,676 15,384 15,500	5 5 5 5	3,3 6 2,1 88,2 2 1,2 1,2 2,4 1,5 1,5 1, 66, 571, 140, 78,
60189 60118 60037 60197 69331-339 60066 60240 60085 60085 60088 60163 60171 50233 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	LED Replacement Program Countywide Pathways/Sidewalks Non PiL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PiL Subtotal Operations Improvements/Programs Congestion Mgmt Fare Traffic Calming TIS Review PUD Monitoring Planning Consulting Traffic Studies Mutti Project Off-Rd Vehicles & Equip Transfer to Fund 325 STO Transfer to 712 Transfer to 712 Transfer to 712 Transfer to 370 Impact Fee Refunds Debt Service Payments Total Funding Request All Funds	1,429 576 25 195 15,404 50 250 400 300 11,318 7,943 155 13,200 190,830 81,831 16,000 22,500	5 5 5	1,120 1,250 150 500 250 500 300 250 13,261 133,992 27,565 15,500 23,300	5 5 5	350 150 500 16,760 250 500 300 300 250 13,671 102,095 6,495 15,500 23,500	s s	650 150 500 20,345 50 250 500 300 250 13,622 77,562 5,250 15,500 23,700	s s	475 150 500 16,608 500 250 500 300 250 13,000 66,676 15,384 15,500 24,000	5 5 5 5	3.3 6 2.1 88,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1
60189 60118 60037 60197 69331-339 60066 60285 60085 60088 60109 60163 60171 50233 Revenue Sales Tax mpact Fec COA Reve Sas Tax Reve	LED Replacement Program Countywide Pathways/Sidewalks Non PIL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PIL Subtotal Operations Improvements/Programs Congestion Mgmt Fare Traffic Calming TIS Review PUD Monitoring Planning Consulting Traffic Studies Multi Project Off-Rd Vehicles & Equip Transfer to 712 Transfer to 712 Tra	1,429 576 25 195 50 250 400 300 11,318 7,943 155 13,200 190,830 81,831 16,000 22,500 535	5 5 5	1,120 1,250 150 500 250 500 300 13,261 133,992 27,565 15,500 23,300 14,928	5 5 5	350 150 500 16,760 500 250 500 300 250 13,671 102,095 6,495 15,500 23,500 0	s s	650 150 500 20,345 50 250 500 300 250 13,622 77,562 9,250 15,500 23,700 6,806	s s	475 150 500 16,608 500 250 500 300 250 13,000 66,676 15,384 15,500 24,000 0	5 5 5 5	3.3 6 2.1 2.4 1.2 2.4 1.5 7 11, 66; 571, 140, 78, 117, 22,
60189 60118 60037 60197 69331-339 60066 60085 60085 60085 60085 60109 60163 60171 50233 8 8 8 8 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8	LED Replacement Program Countywide Pathways/Sidewalks Non PiL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PiL Subtotal Operations Improvements/Programs Congestion Mgmt Fare Traffic Calming TIS Review PUD Monitoring Pianning Consulting Traffic Studies Muti Project Off-Rd Vehicles & Equip Transfer to 712 Transfer to 712 Transfer to 712 Transfer to 712 Transfer to 712 Transfer to 712 Transfer to 718 Debt Service Payments Total Funding Request All Funds S es Revenue inue Bayenue Imbursements*	1,429 576 25 195 15,404 50 250 400 300 11,318 7,943 195 13,200 190,830 81,831 16,000 22,500 535 8,817	5 5 5	1,120 1,250 150 500 19,170 50 250 500 300 13,261 133,992 27,565 15,500 23,300 14,928 8,817	5 5 5	350 150 500 16,760 50 250 500 300 250 300 250 13,671 102,095 6,495 15,500 23,500 0 8,817	s s	650 150 500 20,345 50 250 500 300 250 13,622 77,562 9,250 15,500 23,700 6,806 8,817	s s	475 150 500 16,608 50 250 500 300 250 13,000 66,676 15,384 15,500 24,000 0 8,817	5 5 5 5	3,3 6 2,1 88,2 1,2 1,2 2,4 1,5 1, 1, 66, 571, 140, 78, 117, 22, 44,
60189 60118 60037 60197 69331-339 60066 60240 60085 60085 60085 60163 60171 50233 8 8 8 8 9 8 9 9 9 9 8 3 8 9 9 9 9 9 9	LED Replacement Program Countywide Pathways/Sidewalks Non PiL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PiL Subtoal Operations Improvements/Programs Congestion Mgmt Fare Traffic Calming TS Review PUD Monitoring Planning Consulting Traffic Studies Muti Project Off-Rd Vehicles & Equip Transfer to 712 Transfer to 770 Impact Fee Refunds Debt Service Payments Total Funding Request All Funds S es Revenue Impu Impurements* 001 to 310 11 to 310	1,429 576 25 195 15,404 50 250 400 300 11,318 7,943 135 13,200 190,830 81,831 16,000 22,500 535 8,817 3,000	5 5 5	1,120 1,250 150 500 19,170 50 250 500 300 13,261 133,992 27,565 15,500 23,300 14,328 8,817 3,000	5 5 5	350 150 500 16,760 50 250 500 300 250 13,671 102,095 6,495 15,500 23,500 0 8,817 3,000	s s	650 150 500 20,345 50 250 500 300 250 13,622 77,562 9,250 15,500 23,700 6,806 8,817 3,000	s s	475 150 500 250 500 250 500 300 250 13,000 66,676 15,384 15,500 24,000 0 8,817 3,000	5 5 5 5	3.3 6 2.1 88,2 1,2 1,2 1,2 1,2 1,2 1,5 1,1 , 571, 140, 78, 117, 22,4 415,
60189 60118 60037 60197 69331-339 60066 60240 60085 60085 60088 60163 60171 50233 80163 60171 50233 80163 60171 50233 80163 60171 50233 80163 60171 50233 80163 60171 50233	LED Replacement Program Countywide Pathways/Sidewalks Non PIL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PIL Subtotal Operations Improvementa/Programs Congestion Mgmt Fare Traffic Calming TIS Review PUD Monitoring Planning Consulting Traffic Studies Multi Project Off-Rd Vehicles & Equip Transfer to Fund 325 STO Transfer to 712 Transfer to 712 Transfer to 710 Impact Fee Refunds Debt Service Payments Total Funding Request All Funds 35 es Revenue inue lavenue limbursements* 101 to 310 as Tax-Impact Fees	1,429 576 25 195 15,404 50 250 400 300 11,318 7,943 13,200 190,830 81,831 16,000 22,500 \$35 8,817 3,000 1,430	5 5 5	1,120 1,250 150 500 19,170 50 250 500 300 13,261 133,992 27,565 15,500 23,300 14,928 8,817	5 5 5	350 150 500 16,760 50 250 500 300 250 300 250 13,671 102,095 6,495 15,500 23,500 0 8,817	s s	650 150 500 20,345 50 250 500 300 250 13,622 77,562 9,250 15,500 23,700 6,806 8,817	s s	475 150 500 16,608 50 250 500 300 250 13,000 66,676 15,384 15,500 24,000 0 8,817	5 5 5 5	3,3 6,2,1 2,1 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,1 1,1
60189 60118 60197 60331-339 60066 60240 60085 60088 60109 60163 60171 50233 80171 50233 80171 50233 80171 50233 80171 50233 80171 50233 80171 50233 80171 50233 80171 50233	LED Replacement Program Countywide Pathways/Sidewalks Non PIL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PIL Subtotal Operations Improvements/Programs Congestion Mgmt Fare Traffic Calming TIS Review PUD Monitoring Planning Consulting Traffic Studies Mutti Project Off-Rd Vehicles & Equip Transfer to 712 Transfer to 713 Bebt Service Payments Total Funding Request All Funds S es Revenue Indue lavenue Imbursements* 01 to 310 as Tax-Impact Fees ward 313-310-Impact Fees	1,429 576 25 195 15,404 50 250 400 300 11,318 7,943 155 13,200 190,830 81,831 16,000 22,500 535 8,817 3,000 1,430 58,617	5 5 5	1,120 1,250 150 500 250 500 300 13,261 133,992 27,565 15,500 23,300 14,928 8,817 3,000 2,000	5 5 5	350 150 500 250 500 250 300 300 250 13,671 102,095 6,495 15,500 23,500 0 8,817 3,000 2,000	s s	650 150 500 20,345 50 250 500 300 250 13,622 77,562 9,250 15,500 23,700 6,806 8,817 3,000 2,000	s s	475 150 500 250 500 250 500 300 250 13,000 66,676 15,384 15,500 24,000 0 8,817 3,000	5 5 5 5	3.3 6 2.1 88,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1
60189 60118 60037 60197 69331-339 60066 60240 60085 60085 60085 60085 60163 60171 50233 80171 5023 80171 5023 80171 5023 80171 5023 80171 5025 80171 5025 80171 5025 80171 5025 80171 5025 80171 5025 80171 5025 80171 5025 80171 5025 80171 5005 80171 5005 80171 5005 80171 5005 80171 5005 80171 5005 80171 5005 80171 5005 80171 5005 80171 5005 80171 5005 8015 8015 8015 8015 8015 8015 801	LED Replacement Program Countywide Pathways/Sidewalks Non PiL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PiL Subtotal Operations Improvements/Programs Congestion Mgmt Fare Traffic Calming TIS Review PUD Monitoring Pianning Consulting Traffic Studies Muti Project Off-Rd Vehicles & Equip Transfer to 712 Transfer to 712 Transfer to 712 Transfer to 712 Transfer to 712 Transfer to 730 Impact Fee Refunds Debt Service Payments Total Funding Request All Funds S es Revenue Imbursements* 101 to 310 11 to 310 as Tax-Impact Fees Net Service Payments Total Studies Context Service Service Payments Total Funding Request All Funds S S S S S S S S S S S S S	1,429 576 25 195 15,404 50 250 400 300 11,318 7,943 13,200 190,830 81,831 16,000 22,500 \$35 8,817 3,000 1,430	5 5 5	1,120 1,250 150 500 250 500 300 13,250 13,251 133,992 27,565 15,500 23,300 14,928 8,817 3,000 2,000 32,407	5 5 5	350 150 500 16,760 50 250 500 300 250 13,671 102,095 6,495 15,500 23,500 0 8,817 3,000	s s	650 150 500 20,345 50 250 500 300 250 13,622 77,562 9,250 15,500 23,700 6,806 8,817 3,000	s s	475 150 500 250 500 250 500 300 250 13,000 66,676 15,384 15,500 24,000 0 8,817 3,000	5 5 5 5	3,3 6 2,1 88,2 2 1,2 1,2 2,4 1,5 1, 66, 571, 140, 78, 117, 22, 44, 155, 9, 58, 88, 87,
60189 60118 60037 60197 69331-339 60066 60240 60085 60085 60085 60163 60171 50233 8 8 8 8 9 9 9 60163 60171 50233 8 8 9 9 9 9 8 18 9 8 18 18 18 18 18 18 18 18 18 18 18 18 1	LED Replacement Program Countywide Pathways/Sidewalks Non PIL /LAP Asset Mgmt RM Facility Fund 310 District 1,2,3,4,5,6 Sidewalk PIL Subtotal Operations Improvements/Programs Congestion Mgmt Fare Traffic Calming TIS Review PUD Monitoring Planning Consulting Traffic Studies Mutti Project Off-Rd Vehicles & Equip Transfer to 712 Transfer to 713 Bebt Service Payments Total Funding Request All Funds S es Revenue Indue lavenue Imbursements* 01 to 310 as Tax-Impact Fees ward 313-310-Impact Fees	1,429 576 25 195 15,404 50 250 400 300 11,318 7,943 155 13,200 190,830 81,831 16,000 22,500 535 8,817 3,000 1,430 58,617	5 5 5	1,120 1,250 150 500 250 500 300 13,261 133,992 27,565 15,500 23,300 14,928 8,817 3,000 2,000	5 5 5	350 150 500 250 500 250 300 300 250 13,671 102,095 6,495 15,500 23,500 0 8,817 3,000 2,000	s s	650 150 500 20,345 50 250 500 300 250 13,622 77,562 9,250 15,500 23,700 6,806 8,817 3,000 2,000	s s	475 150 500 250 500 250 500 300 250 13,000 66,676 15,384 15,500 24,000 0 8,817 3,000	5 5 5 5	3,3 6 2,1 88,2 1,2 1,2 1,2 1,2 1,5 11, 5 7, 1, 66, 571, 140,

POTABLE	WATER SYSTEM PROJECTS							
		CONSTRUCTION	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
CIE #	PROJECT	SCHEDULE NOTES	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTAL
	Debt Service		\$17,362,000	\$11,808,000	\$11,796,000	\$11,906,000	\$11,974,000	\$64,846,000
	Expansion Related Projects - Other		\$46,540,000	\$0	\$0	\$0	\$667,000	\$47,207,000
	Replacement & Rehabilitation Projects - Other		\$33,100,000	\$34,555,000	\$34,585,000	\$31,535,000	\$35,635,000	\$169,410,000
	Departmental Capital		\$550,000	\$561,000	\$572,000	\$583,000	\$595,000	\$2,861,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$2,620,000	\$3,456,000	\$3,459,000	\$3,154,000	\$3,564,000	\$16,253,000
	POTABLE WATER SYSTEM PROJECT TOTALS		\$100,172,000	\$50,380,000	\$50,412,000	\$47,178,000	\$52,435,000	\$300,577,000

REVENUE KEY - REVENUE SOURCE	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTAL
WIF - Water System Development Fees / Impact Fees	\$7,750,000	\$7,750,000	\$7,750,000	\$7,750,000	\$7,750,000	\$38,750,000
B1 - Bonds/ Loans	\$54,040,000	\$0	\$0	\$0	\$667,000	\$54,707,000
Cares Act Funding	\$3,000,000	\$0	\$0	\$0	\$0	\$3,000,000
WCA - Water Capital Account	\$550,000	\$561,000	\$572,000	\$583,000	\$595,000	\$2,861,000
REV - Rate Revenue	\$34,832,000	\$42,069,000	\$42,090,000	\$38,845,000	\$43,423,000	\$201,259,000
REVENUE TOTAL	\$100,172,000	\$50,380,000	\$50,412,000	\$47,178,000	\$52,435,000	\$300,577,000

NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Revenue sources are estimates only; both the mix of sources and amounts will change when a rate study is conducted.

### DATA SOURCES:

Expansion Related and Replacement & Rehabilitation Projects:

FY 2022 is obtained from the 2022 Proposed Budget for R&R projects. Expansion projects require additional funding therefore not included in the budget.

FY 2023 to FY 2026 are from the FY 2019 Impact Fee Rate Study.

#### Department Capital:

FY 2022 is obtained from the 2022 Proposed Budget, split 50/50 between Water and Wastewater. FY 2023 to FY 2026 are 2% increases over each fiscal year (pursuant to CPI adjustments per current Board policy).

#### Debt Service:

All years are obtained from the current Collier County Water-Sewer District Financial Statements and Other Reports including Summary of Debt Service requirements to maturity. Total Debt Service amount is split 50/50 between Water and Wastewater.

Reserve for Contingencies - Replacement and Rehabilitation Projects: As per Florida Statues, reserve for contingencies is up to 10% of expenses.

CIE consistent with Board-approved FY22 budget

WASTEWA	TER TREATMENT SYSTEM PROJECTS							
		CONSTRUCTION	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
CIE #	PROJECT	SCHEDULE NOTES	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTAL
	Debt Service		\$11,681,000	\$13,710,000	\$13,716,000	\$13,038,000	\$11,414,000	\$63,559,000
	Expansion Related Projects - Other		\$89,550,000	\$0	\$0	\$0	\$105,937,000	\$195,487,000
	Replacement & Rehabilitation Projects - Other		\$34,027,000	\$37,035,000	\$39,985,000	\$37,875,000	\$38,130,000	\$187,052,000
	Departmental Capital		\$550,000	\$561,000	\$572,000	\$583,000	\$595,000	\$2,861,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$2,169,000	\$3,704,000	\$3,999,000	\$3,788,000	\$3,813,000	\$17,473,000
	WASTEWATER TREATMENT SYSTEM PROJECT TOTALS		\$137,977,000	\$55,010,000	\$58,272,000	\$55,284,000	\$159,889,000	\$466,432,000

REVENUE KEY - REVENUE SOURCE	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTAL
SIF - Wastewater System Development Fees / Impact Fees	\$7,900,000	\$7,900,000	\$7,900,000	\$7,900,000	\$7,900,000	\$39,500,000
B1 - Bonds/ Loans	\$97,050,000	\$0	\$0	\$0	\$105,937,000	\$202,987,000
Cares Act Funding	\$7,000,000	\$0	\$0	\$0	\$0	\$7,000,000
SCA - Wastewater Capital Account - Transfers	\$550,000	\$561,000	\$572,000	\$583,000	\$595,000	\$2,861,000
REV - Rate Revenue	\$25,477,000	\$46,549,000	\$49,800,000	\$46,801,000	\$45,457,000	\$214,084,000
REVENUE TOTAL	\$137,977,000	\$55,010,000	\$58,272,000	\$55,284,000	\$159,889,000	\$466,432,000

NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Revenue sources are estimates only; both the mix of sources and amounts will change when a rate study is conducted.

### DATA SOURCES:

Expansion Related and Replacement & Rehabilitation Projects: FY 2022 is obtained from the 2022 Proposed Budget for R&R projects. Expansion projects require additional funding and therefore not included in the budget.

FY 2023 to FY 2026 are estimated project costs.

#### Department Capital:

FY 2022 is obtained from the 2022 Proposed Budget, split 50/50 between Water and Wastewater. FY 2023 to FY 2026 are 2% increases over each fiscal year (pursuant to CPI adjustments per Board policy).

#### Debt Service:

All years are obtained from the current Collier County Water-Sewer District Financial Statements and Other Reports including Summary of Debt Service requirements to maturity. Total Debt Service amount is split 50/50 between Water and Wastewater.

Reserve for Contingencies - Replacement and Rehabilitation Projects: As per Florida Statues, reserve for contingencies is up to 10% of expenses.

CIE consistent with Board-approved FY22 budget

			CAPITAL IMPROVEMENT		\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	NOTES	SCHEDULE NOTES	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTAL
TBD	County Landfill Cell Construction			\$0	\$0	\$0	\$0	\$0	\$(
	SOLID WASTE DISPOSAL FACILITIES PR	ROJECT TOTALS		\$0	\$0	\$0	\$0	\$0	\$(
	REVENUE KEY - REVENUE Source			FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTAL
	LTF - Landfill Tipping Fees			\$0	\$0	\$0	\$0	\$0	\$(
	REVENUE TOTAL			\$0	\$0	\$0	\$0	\$0	\$(
			Image: Constraint of the sector of						
				Inc. of Florida ( WMIF over the costs are paid f By contract und	WMIF), landfill cel life of the Collier (	I construction is County Landfill. gh agreed upon F will construct a	LOA) with Waste M scheduled and gu: Collier County land Collier County land Iny future required	aranteed by fill expansion	

		CAPITA	L IMPROVEMENT	\$ VALUE	\$ VALUE	\$ VALUE	\$ VALUE	\$ VALUE	\$ VALUE	
ROJECT No.		SCH	EDULE NOTES	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTAL	
	Fund 346 Debt Service (2011 Bond)			\$2,518,329	\$2,520,463	\$2,528,799	\$2,557,877	\$0		
	Fund 346 Debt Service (2013 Bond)			\$123,471	\$123,471	\$123,471	\$123,471	\$3,059,571	\$3,553,4	
	Fund 346 Debt Service (2019 Loan)			\$768,700	\$2,919,000	\$2,933,300	\$2,856,600	\$2,119,646	\$11,597,2	
	PARKS & RECREATION FACILITIES PROJECT TOTALS			\$3,410,500	\$5,562,934	\$5,585,570	\$5,537,948	\$5,179,217	\$25,276,1	
	REVENUE KEY - REVENUE SOURCE			FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTAL	
	IF - Impact Fees / COA Revenue			\$9,800,000	\$9,979,000	\$10,161,200	\$10,322,400	\$10,461,800	\$50,724,	
	DIF - Deferred Impact Fees			\$0	\$0	\$0	\$0	\$0		
	GR - Grants / Reimbursements			\$0	\$0	\$0	\$0	\$0		
	IN - Interest / Misc.			\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,000	
	RR - Revenue Reduction (less 5% required by la	aw)		\$0	\$0	\$0	\$0	\$0		
	CF - Available Cash for Future Projects/Payment	of Debt Servi	ce	\$4,576,300	\$0	\$0	\$0	\$0	\$4,576	
	TR - Added Value through Commitments, Lease	s &		\$0	\$0	\$0		\$0		
	GF - General Fund 001			\$0	\$0	\$0	\$0	\$0		
	REVENUE TOTAL			\$14,576,300	\$10,179,000	\$10,361,200	\$10,522,400	\$10,661,800	\$56,300	
	TR - Added Value through Commitments, Leases & GF - General Fund 001			NOTE: All Community P through interdepartmenta methods not involving ex the value of land holding	al transfers exchang penditure of capital	ing land holdings f	or park lands, or us	ing other		

Facility Type: County Maintained System of Secondary Stormwater Management Canals & Structures (Category A)

Plan Year		1		2		3		4		5		5 - Year
Fiscal Year	r	FY 2	2	FY 2	3	FY 2	4	FY 2	5	FY 2	6	Totals
Proj. No.	Countywide Programs, Planning & Maintenance											
51144	Stormwater Feasibility and Preliminary Design	388	Р	400	Р	400	Ρ	400	P	400	P	1,98
60194	Stormwater Maintenance	300	M	325	м	325	м	325	м	325	M	1,60
60121	NPDES MS4 Program	27	Р	50	Р	50	Р	50	P	50	P	22
50209	SW Outfall Replacements	50	M	100	м	150	м	200	м	250	M	75
50210	SW Pipe Replacements	50	M	100	м	150	м	200	M	250	M	75
	Infrastructure Maintenance Projects											
50177	Stormwater Channel Dredging	1,000		1,500		2,000		2,000		2,000		8,50
50213	Mangrove Street Seawall	400	С									40
51029	GG City Outfall Replacements	3,000	DC	3,000	DC	6,000	DC	6,000	DC	6,000	DC	24,00
60224	Lely Golf Estates	2,000	D	2,000	DC	2,000	DC	2,000	DC	2,000	DC	10,00
60126	Pine Ridge Stormwater Improvements**			6,000	DC							6,00
50169	Bayshore Gateway CRA	100	PD	100	PD	100	PD	100	PD	100	PD	50
60234	Palm River SWIP (PUD)	2,000	C	2,000	С	2,000	С	2,000	С	2,000	С	10,00
50160	Flood Automation	750	DC	750	DC	500	DC	500	DC	500	DC	3,00
50180	Canal Easements	250	R	250	R	250	R	250	R	250	R	1,25
50200	Poinciana Village	2,000	DC	2,000	С	1,000	С					5,00
60238	Plantation Island Canals/Ditches	1,465	C									1,46
	System Capacity Projects											
60143	Immokalee Stormwater Improvements	4,500	DRC	5,000	DRC	5,000	DRC	5,000	DRC	5,000	DRC	24,50
60139	Naples Park	10,200	DC			8,400	DC	4,200	DC			22,80
60142	Ridge Street / West Goodlette			6,500	С	6,500	С	6,500	с	6,500	С	26,00
60195	Harbor Lane Brookside	1,000	С	1,000	С							2,00
33554	RESTORE	1,000	PD	1,000	PD	5,000	PD	1,000	PD	1,000	PD	9,00
60246	Lake Park Flowway	1,000	D	500	R	2,000	С					3,50
	Water Quality Improvement Projects											
60102	Gordon River Extension	8,000	DRC	13,000	DRC	10,000	DRCA	5,000	DC	5,000	DC	41,00
60196	Griffin Road Area	500	A	1,000	С							1,50
	Total Program Cost	39,980		46,575		51,825		35,725		31,625		205,73

\*\* Pending Feasability

P = Planning, D = Design & Permitting, R = Right-of-Way Acquisition, C = Construction, M = Maintenance/Monitoring, A = Advance Funding

Program Revenue (Fund 325)

Plan Year	1		2		3		4		5		5 - Year
Fiscal Year	FY 22	2	FY 23	3	FY 2	4	FY 2	5	FY 26	6	Totals
New Budget From 001	2,678		2,678		2,678		2,678		2,678		13,390
New Budget From 111	3,000		3,000		3,000		3,000		3,000		15,000
Transfer from 310	11,318										11,318
Anticipated Grants			4,125								4,125
Interest	35		50		50		50		50		235
Neg 5% Revenue Reserve	(3)		(3)		(3)		(3)		(3)		(15)
Carry Forward	(9,668)										(9,668)
Debt Funding 327	32,620		19,850								52,470
Unmet Funding Needs			16,875		46,100		30,000		25,900		118,875
Total Program Revenue	39,980		46,575		51,825		35,725		31,625		205,730

Notes: 1. All numbers are in thousands of dollars.

#### APPENDIX H FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY COST AND REVENUE SUMMARY TABLE FISCAL YEARS 2027-2031

The table below itemizes the types of public facilities and the sources of revenue. The "Revenue Amount" column contains the 5-Year amount of facility revenues. The right column is a calculation of expenses versus revenues for each type of public facility. All deficits are accumulated as a subtotal. The subtotal deficit is the source of additional revenue utilized by Collier County to fund the deficit in order to maintain the levels of service standards as referenced in the Capital Improvement Element.

Projects	Revenue Sources	Expenditure	Revenue Amount	Total
ARTERIAL AND	COLLECTOR ROAD PROJECTS			
Revenues:	IF - Impact Fees / COA Revenue GA - Gas Tax Revenue GR - Grants / Reimbursements AC - Available Cash for Future Projects/Payment of Debt Service		\$77,500,000 \$123,000,000 \$0 \$0	
	TR - Transfers GF - General Fund (001) DC - Developer Contribution Agreements / Advanced IN - Interest - Fund 313 (Gas Tax & Interest Impact Fees		\$0 \$0 \$59,085,000 \$0 \$5,000,000	
	TX - Gas Tax		\$0	\$264,585,000
Less Expenditure	es:	\$264,585,000	Balance	\$264,585,000 \$0
POTABLE WAT	ER SYSTEM PROJECTS			
Revenues:	WIF - Water System Development Fees B - Bond Proceeds Cares Act Funding		\$38,750,000 \$7,500,000 \$0	
	WCA - Water Capital Account REV - Rate Revenue		\$3,158,000 \$223,235,000	\$272,643,000
Less Expenditure	2S:	\$272,643,000	Balance	<u>\$272,643,000</u> \$0
WASTEWATER	TREATMENT SYSTEM PROJECTS			
Revenues:	SIF - Wastewater System Development Fees B - Bond Proceeds SRF - State Revolving Fund Loans Cares Act Funding		\$39,500,000 \$7,500,000 \$0 \$0	
	SCA - Wastewater Capital Account REV - Rate Revenue		\$3,158,000 \$191,058,000	\$241,216,000
Less Expenditure	es:	\$241,216,000	Balance	\$241,216,000 \$0
SOLID WASTE	DISPOSAL FACILITIES PROJECTS			
Revenues:	LTF - Landfill Tipping Fees		\$0	\$0
Less Expenditure	es:	\$0	Balance	<u>\$0</u> \$0
PARKS & RECR	EATION FACILITIES PROJECTS			
Revenues:	IF - Impact Fees GR - Grants / Reimbursements GF - General Fund (001)		\$40,000,000 \$0 \$0	\$40,000,000
Less Expenditure	25:	\$0	Balanaa	\$0 \$40,000,000
STORMWATER	MANAGEMENT SYSTEM PROJECTS		Balance	\$40,000,000
Revenues:	GR - Grants / Reimbursements AC - Available Cash for Future Projects/Payment of Debt Service		\$0 \$0	
	CRA - Community Redevelopment Area/Municipal Service Taxing GF - General Fund (001)		\$0 \$127,000,000	\$127,000,000
Less Expenditure	25:	\$127,000,000	Balance	\$127,000,000 \$0
		6005 111 000		¢045 444 000
PROJECTS		\$905,444,000	SOURCES	\$945,44

#### APPENDIX H FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY FISCAL YEARS 2027-2031

ARTERIAL AN	D COLLECTOR ROAD PROJECTS							
		CAPITAL IMPROVEMENT	\$ AMOUNT					
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	TOTAL
	Contingency		\$0	\$0	\$0	\$0	\$0	\$0
Sbttl	Operations Improvements/Programs		\$15,000,000	\$15,000,000	\$15,000,000	\$15,000,000	\$15,000,000	\$75,000,000
Sbttl	Transfers to Other Funds		\$0	\$0	\$0	\$0	\$0	\$0
	Impact Fee Refunds		\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,250,000
	Capacity Improvement Projects - All Phases		\$22,667,000	\$22,867,000	\$23,067,000	\$23,267,000	\$23,467,000	\$115,335,000
	Debt Service Payments		\$14,600,000	\$14,600,000	\$14,600,000	\$14,600,000	\$14,600,000	\$73,000,000
	ARTERIAL AND COLLECTOR ROAD PROJECT TOTALS		\$52,517,000	\$52,717,000	\$52,917,000	\$53,117,000	\$53,317,000	\$264,585,000

REVENUE KEY - REVENUE SOURCE	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	TOTAL
IF - Impact Fees / COA Revenue	\$15,500,000	\$15,500,000	\$15,500,000	\$15,500,000	\$15,500,000	\$77,500,000
GA - Gas Tax Revenue	\$24,200,000	\$24,400,000	\$24,600,000	\$24,800,000	\$25,000,000	\$123,000,000
GR - Grants / Reimbursements	\$0	\$0	\$0	\$0	\$0	\$0
AC - Available Cash for Future Projects/Payment of Debt Service	\$0	\$0	\$0	\$0	\$0	\$0
TR - Transfers	\$0	\$0	\$0	\$0	\$0	\$0
GF - General Fund (001)	\$11,817,000	\$11,817,000	\$11,817,000	\$11,817,000	\$11,817,000	\$59,085,000
Do - Developer Contribution Agreements / Advanceu	\$0	\$0	\$0	\$0	\$0	\$0
IN - Interest - Fund 313 (Gas Tax & Interest Impact Fees)	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$5,000,000
RR - Revenue Reduction (less 5% required by law)	\$0	\$0	\$0	\$0	\$0	\$0
REVENUE TOTAL	\$52,517,000	\$52,717,000	\$52,917,000	\$53,117,000	\$53,317,000	\$264,585,000

CIE Appendix - 1

### Capital Improvement Element - Appendix Table: 2021 Amendments

### APPENDIX H FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY FISCAL YEARS 2027-2031

		CAPITAL IMPROVEMENT	\$ AMOUNT					
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	TOTAL
	Expansion Related Projects		\$0	\$7,500,000	\$0	\$0	\$0	\$7,500,000
	Replacement & Rehabilitation Projects		\$36,955,000	\$36,585,000	\$36,985,000	\$36,985,000	\$36,985,000	\$184,495,000
	Debt Service		\$11,681,000	\$11,413,000	\$13,222,000	\$11,360,000	\$11,362,000	\$59,038,000
	Departmental Capital		\$607,000	\$619,000	\$631,000	\$644,000	\$657,000	\$3,158,000
	Reserve for Contingencies - Replacement & Rehabilitation Proje	ects	\$3,696,000	\$3,659,000	\$3,699,000	\$3,699,000	\$3,699,000	\$18,452,000
	POTABLE WATER SYSTEM PROJECT TOTALS		\$52,939,000	\$59,776,000	\$54,537,000	\$52,688,000	\$52,703,000	\$272,643,000

REVENUE KEY - REVENUE SOURCE	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	TOTAL
WIF - Water System Development Fees	\$7,750,000	\$7,750,000	\$7,750,000	\$7,750,000	\$7,750,000	\$38,750,000
B - Bond Proceeds	\$0	\$7,500,000	\$0	\$0	\$0	\$7,500,000
Cares Act Funding	\$0	\$0	\$0	\$0	\$0	\$0
WCA - Water Capital Account	\$607,000	\$619,000	\$631,000	\$644,000	\$657,000	\$3,158,000
REV - Rate Revenue	\$44,582,000	\$43,907,000	\$46,156,000	\$44,294,000	\$44,296,000	\$223,235,000
REVENUE TOTAL	\$52,939,000	\$59,776,000	\$54,537,000	\$52,688,000	\$52,703,000	\$272,643,000

NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Figures provided for years six through ten of the Schedule of Capital Improvements are estimates of revenues versus project costs but do not constitute a long term concurrency system.

Capital Improvement Element - Appendix Table: 2021 Amendments

#### APPENDIX H FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY FISCAL YEARS 2027-2031

WASTEWATE	R TREATMENT SYSTEM PROJECTS								
		CAPITAL IM	PROVEMENT	\$ AMOUNT					
PROJECT No.	PROJECT	SCHEDU	LE NOTES	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	TOTAL
	Expansion Related Projects			\$0	\$7,500,000	\$0	\$0	\$0	\$7,500,000
	Replacement & Rehabilitation Projects			\$33,140,000	\$31,770,000	\$32,770,000	\$33,270,000	\$31,770,000	\$162,720,000
	Departmental Capital			\$607,000	\$619,000	\$631,000	\$644,000	\$657,000	\$3,158,000
	Debt Service			\$10,075,000	\$9,891,000	\$10,256,000	\$10,674,000	\$10,670,000	\$51,566,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects			\$3,314,000	\$3,177,000	\$3,277,000	\$3,327,000	\$3,177,000	\$16,272,000
	WASTEWATER TREATMENT SYSTEM PROJECT TOTALS			\$47,136,000	\$52,957,000	\$46,934,000	\$47,915,000	\$46,274,000	\$241,216,000

REVENUE KEY - REVENUE SOURCE	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	TOTAL
SIF - Wastewater System Development Fees / Impact Fees	\$7,900,000	\$7,900,000	\$7,900,000	\$7,900,000	\$7,900,000	\$39,500,000
B - Bond Proceeds	\$0	\$7,500,000	\$0	\$0	\$0	\$7,500,000
Cares Act Funding	\$0	\$0	\$0	\$0	\$0	\$0
SCA - Wastewater Capital Account - Transfers	\$607,000	\$619,000	\$631,000	\$644,000	\$657,000	\$3,158,000
REV - Rate Revenue	\$38,629,000	\$36,938,000	\$38,403,000	\$39,371,000	\$37,717,000	\$191,058,000
REVENUE TOTAL	\$47,136,000	\$52,957,000	\$46,934,000	\$47,915,000	\$46,274,000	\$241,216,000

NOTE: Figures provided for years six through ten of the Schedule of Capital Improvements are estimates of revenues versus project costs but do not constitute a long-term concurrency system. Revenue sources are estimates only; both the mix of sources and amounts will change when a rate study is conducted.

#### APPENDIX H FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY FISCAL YEARS 2027-2031

SOLID WASTE	SOLID WASTE DISPOSAL FACILITIES PROJECTS											
			CAPITAL IMPROVEMENT	\$ AMOUNT								
PROJECT No.	PROJECT		SCHEDULE NOTES	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	TOTAL			
TBD	County Landfill Cell Construction			\$0	\$0	\$0	\$0	\$0	\$0			
	SOLID WASTE DISPOSAL FACILITIES PRO	DJECT TOTALS		\$0	\$0	\$0	\$0	\$0	\$0			

REVENUE KEY - REVENUE SOURCE	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	TOTAL
LTF - Landfill Tipping Fees	\$0	\$0	\$0	\$0	\$0	\$0
REVENUE TOTAL	\$0	\$0	\$0	\$0	\$0	\$0

NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Figures provided for years six through ten of the Schedule of Capital Improvements are estimates of revenues versus project costs but do not constitute a long term concurrency system.

\* Pursuant to the Landfill Operating Agreement (LOA) with Waste Management, Inc. of Florida (WMIF), landfill cell construction is scheduled and guaranteed by WMIF over the life of the Collier County Landfill. Collier County landfill expansion costs are paid for by WMIF through agreed upon Collier County landfill tipping fees. By contract under the LOA, WMIF will construct any future required cells.

### Capital Improvement Element - Appendix Table: 2021 Amendments

### APPENDIX H FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY FISCAL YEARS 2027-2031

PA	ARKS AND RECREATION FACILITIES PROJECTS							
		CAPITAL IMPROVEMENT	\$ VALUE					
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	TOTAL
	35 Acres – Collier Enterprises - Village SRA		\$0	\$0	\$0	\$0	\$0	\$0
	PARKS AND RECREATION FACILITIES PROJECT TOTALS		\$0	\$0	\$0	\$0	\$0	\$0

REVENUE KEY - REVENUE SOURCE		FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	TOTAL
IF - Impact Fees / COA Revenue		\$8,000,000	\$8,000,000	\$8,000,000	\$8,000,000	\$8,000,000	\$40,000,000
GR - Grants / Reimbursements		\$0	\$0	\$0	\$0	\$0	\$0
GF - General Fund (001)		\$0	\$0	\$0	\$0	\$0	\$0
REVENUE TOTAL		\$8,000,000	\$8,000,000	\$8,000,000	\$8,000,000	\$8,000,000	\$40,000,000

NOTE: All Community Park Land and Regional Park Land transactions are being facilitated through interdepartmental transfers exchanging land holdings for park lands, or using other methods not involving expenditure of capital funds. <u>These transactions represent changes to the value of land holdings only</u>.

Capital Improvement Element - Appendix Table: 2021 Amendments

#### APPENDIX H FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY FISCAL YEARS 2027-2031

STORMWATE	STORMWATER MANAGEMENT SYSTEM PROJECTS											
		CAPITAL IMPROVEMENT	\$ AMOUNT									
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	TOTAL				
	Stormwater Management System Projects	Continuous	\$25,365,000	\$25,365,000	\$25,365,000	\$25,365,000	\$25,365,000	\$126,825,000				
	Stormwater Management Operations & Reserves		\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$175,000				
	STORMWATER MANAGEMENT SYSTEM PROJECT TOTALS		\$25,400,000	\$25,400,000	\$25,400,000	\$25,400,000	\$25,400,000	\$127,000,000				

REVENUE KEY - REVENUE SOURCE	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	TOTAL
GR - Grants / Reimbursements	\$0	\$0	\$0	\$0	\$0	\$0
AC - Available Cash for Future Projects/Payment of Debt Service	\$0	\$0	\$0	\$0	\$0	\$0
CRA - Community Redevelopment Area / Municipal Service Taxing Unit	\$0	\$0	\$0	\$0	\$0	\$0
GF - General Fund (001)	\$25,400,000	\$25,400,000	\$25,400,000	\$25,400,000	\$25,400,000	\$127,000,000
REVENUE TOTAL	\$25,400,000	\$25,400,000	\$25,400,000	\$25,400,000	\$25,400,000	\$127,000,000