

**MINUTES  
SOUTH CHARLOTTE STORMWATER  
MUNICIPAL SERVICE BENEFIT UNIT (MSBU)**

**ADVISORY BOARD REGULAR MEETING  
WEDNESDAY, APRIL 3, 2024**

**10:01 a.m. – 11:26 a.m.  
Charlotte Harbor Event Center  
75 Taylor Street, Punta Gorda, Florida**

**Members Present:** Dr. Mary Ellen Kiss, Chair  
Sandra Funk, Vice Chair  
Dave Evans

**Members Absent:** None

**County Staff:** Erica LeMaster, Community Liaison  
Lisa Eby, Executive Assistant  
Lorraine Moneypenny, Community Liaison  
Jason Thomas, Stormwater Engineer

**Guests:** See attached sign-in sheet

**Call to Order / Roll Call:**

The meeting was called to order at 10:01 a.m. A roll call was taken, and a quorum was present.

**Changes to the Agenda / Motion to Approve Changes:**

Ms. Kiss motioned to add Assessments under New Business seconded by Mr. Evans and passed unanimously.

**Citizen Input on Agenda Items (3-Minute Limit):**

- Mr. Dimuzio raised questions regarding assessing new developments.

**Approval of Minutes:** The draft minutes from January 8, 2024, and January 10, 2024, were unanimously approved as submitted.

**Unfinished Business:**

- a. Water Quality Monitoring Program: Ms. LeMaster provided Mr. Moody's update that per the request of the Pirate Harbor Advisory Board, we have been collecting samples on Lafitte waterway monthly since February. This is currently being paid for through General Funds, as monitoring funding from the South stormwater MSBU is maxed out. I'm willing to collect samples for a few more months, but if Pirate Harbor wants this to be a permanent site, I'll need to have a conversation with the advisory board; either another site elsewhere in south county will need to be dropped, or we'll need to identify a funding source from elsewhere.
- b. Jean La Fitte Bank Stabilization Project: Ms. LeMaster reviewed photographs of the finished bank stabilization project and reviewed the project cost with the group. Discussion ensued regarding the benefits of using rip rap over concrete. The group discussed the possibility of exploring low impact plants that are natural to the environment in replacement of rip rap in the future for bank stabilization.
- c. Hydraulic Study: Mr. Thomas discussed in detail the request for proposals process, and the scope and fee process when choosing a consultant firm, stressing the importance of hiring the most qualified consultant. Mr. Thomas explained the process of the study pointing out

the different models, stressing that workshops will be held to provide a clear understanding of the level of service the community hopes to gain, at which time the consultant will run different storm scenarios. Mr. Thomas clarified the difference between a hydraulic study and a flood study.

- d. Waterway Hurricane Debris Clean Up: Ms. Lemaster updated the board that we are currently still attempting to acquire more funding from Federal Emergency Management Agency (FEMA).

**New Business:**

- a. Financial Reports: The fiscal year (FY)24 quarter one actual expenditure report was reviewed. The FY24 quarter one monthly funding report (formerly maintenance activity report) were reviewed, as well as the FY23 Annual Report, and the FY23 Executive Summary.

**Citizen Input on MSBU Items (3-Minute Limit):**

- Mr. Smallwood commented on Water Quality Testing locations in the South Charlotte Stormwater district recommending that we drop a testing location elsewhere to cover the cost of the Jean La Fitte test point.

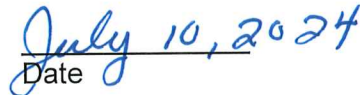
**Advisory Board Open Discussion:**

Discussion ensued regarding new/future development standards, firelights initiative, the current ordinance for developments, utilizing treatment facilities, and the likelihood of additional ponds, and wetlands to trap and treat stormwater in the future.

Meeting adjourned at 11:26 a.m.

Submitted by: Erica LeMaster  
Public Works Department

  
Chair Signature

  
Date

**AGENDA**  
**SOUTH CHARLOTTE STORMWATER**  
**MUNICIPAL SERVICE BENEFIT UNIT (MSBU)**

**ADVISORY BOARD REGULAR MEETING**  
**WEDNESDAY APRIL 3, 2024**

**10:00 a.m., Charlotte Harbor Event Center**  
**75 Taylor Street, Punta Gorda, Florida**

**BOARD MEMBERS:** Dr. Mary-Ellen Kiss, Chair  
Sandra Funk, Vice-Chair  
Dave Evans

**COUNTY STAFF:** Erica LeMaster, Community Liaison

**PURPOSE:** Regular Meeting

1. Call to Order / Roll Call
2. Changes to the Agenda / Motion to Approve Changes
3. Citizen Input on Agenda Items (3-Minute Limit)
4. Approval of Minutes: January 8, 2024, January 10, 2024
5. Unfinished Business
  - a. Update: Water Quality Monitoring Program
  - b. Update: Jean La Fitte Bank Stabilization Project
  - c. Update: Hydraulic Study
  - d. Update: Waterway Hurricane Debris Clean Up
6. New Business
  - a. Financial Reports
7. Citizen Input on MSBU Items (3-Minute Limit)
8. Advisory Board Open Discussion
9. Meeting Schedule / Items for Next Agenda
10. Motion to Adjourn

# South Charlotte Stormwater MSBU

Fund Financial Report  
Oct. 1, 2023 - Dec. 31, 2023

	Actual FY2023	Adopted Budget FY2024	YTD Actual FY2024	Encumbered FY2024	Balance FY2024
<b>Beginning Balance</b>	\$4,584,725	\$3,609,754	\$4,900,332		
<b>Revenues</b>					
Assessments & Earnings	878,485	679,195	379,886		
Grant & Subsidy Revenue	-	-	-		
Loans & Borrowing	-	-	-		
<b>Total Revenue</b>	\$878,485	\$679,195	\$379,886		
<b>Expenditures</b>					
Contract Services	12,574	20,091	2,280	4,205	13,606
Pipe Lining	161,120	300,000	-	-	300,000
Water Quality	120,492	112,596	3,027	58,212	51,357
Public Works Services	90,342	295,202	6,662	-	288,540
Internal Charges	16,846	11,824	11,824	-	-
Purchased Services	122,822	135,047	18,128	-	116,919
Materials and Supplies	-	-	-	-	-
Capital Outlay	15,886	-	-	-	-
Debt Services	-	-	-	-	-
<b>Project Costs</b>					
Nat'l Pollution Discharge Elimination	22,795	41,667	4,877	5,553	31,237
Total Maximum Daily Load Program	-	138,659	-	-	138,659
Caloosahatchee TMDL/BMAP	-	11,930	-	-	11,930
<b>Total Expenditures</b>	\$562,878	\$1,067,016	\$46,798	\$67,970	\$952,248
<b>Reserves (Ending Fund Balance)</b>	\$4,900,332	\$3,221,933	\$5,233,419		
Reserve %	89.7%	75.1%	99.1%		

Date Prepared: 1/19/2024

# Monthly Funding Report

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## South Charlotte Storm Water Utility Unit

Project	WO Number	WO Description	Location	Date Worked	Labor Hours	Labor Cost	Materials Cost	Equip. Cost	Contractor Cost	Work Accomp	Total Cost
	30224	Contracted - Fence Replacment		12/27/2023	0.25	21.60	0.00	0.00	0.00		21.60
		Contract Management Total			0.25	21.60	0.00	0.00	0.00		21.60
	Work Order 30224 Total		EDUCATION AVE & HENRY ST, PUNTA GORDA, FL, 33950		0.25	21.60	0.00	0.00	0.00	0.00	21.60
#22-552 Fencing Contract											
		Contracted - Fence Replacment Total			0.25	21.60	0.00	0.00	0.00	0.00	21.60
	12283	GIS Update		10/31/2023	0.40	29.18	0.00	0.00	0.00		29.18
	Work Order 12283 Total		MARION AVE, PUNTA GORDA, 33950		0.40	29.18	0.00	0.00	0.00	5.00	29.18
	28980	GIS Update		12/12/2023	0.25	18.48	0.00	0.00	0.00		18.48
	Work Order 28980 Total		412308177001, 1530 HENRY ST, PORT CHARLOTTE, FL		0.25	18.48	0.00	0.00	0.00	0.25	18.48
		GIS Update Total			0.65	47.65	0.00	0.00	0.00	5.25	47.66
	22983	Major Outfall Maintenance - Menzi		10/26/2023	10.00	729.40	0.00	579.80	0.00		1,309.20
	22983	Major Outfall Maintenance - Menzi		10/30/2023	10.00	729.40	0.00	579.80	0.00		1,309.20
	22983	Major Outfall Maintenance - Menzi		10/31/2023	6.50	480.35	0.00	373.17	0.00		853.52
	Work Order 22983 Total		GOLF COURSE BLVD, Punta Gorda, 33982		26.50	1,939.15	0.00	1,532.77	0.00	4,600.00	3,471.92
	23053	Major Outfall Maintenance - Menzi		10/25/2023	6.00	440.52	0.00	236.94	0.00		677.46
	Work Order 23053 Total		16480 BURNT STORE RD, PUNTA GORDA, 33955		6.00	440.52	0.00	236.94	0.00	50.00	677.46
	25364	Major Outfall Maintenance - Menzi		11/08/2023	7.00	517.30	0.00	405.79	0.00		923.09

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## South Charlotte Storm Water Utility Unit

Project	WO Number	WO Description	Location	Date Worked	Labor Hours	Labor Cost	Materials Cost	Equip. Cost	Contractor Cost	Work Accomp	Total Cost
	25364	Major Outfall Maintenance - Menzi		11/09/2023	7.00	517.30	0.00	405.79	0.00		923.09
	<b>Work Order 25364 Total</b>		<b>PINEWOOD LN, PUNTA GORDA, FL, 33982</b>		14.00	1,034.60	0.00	811.58	0.00	4,232.00	1,846.18
	25597	Major Outfall Maintenance - Menzi		11/09/2023	3.00	221.70	0.00	173.91	0.00		395.61
	25597	Major Outfall Maintenance - Menzi		11/14/2023	10.00	739.00	0.00	579.70	0.00		1,318.70
	25597	Major Outfall Maintenance - Menzi		11/15/2023	5.00	369.50	0.00	289.85	0.00		659.35
	<b>Work Order 25597 Total</b>		<b>ELM RD, PUNTA GORDA, FL, 33982</b>		18.00	1,330.20	0.00	1,043.46	0.00	6,666.00	2,373.66
	25804	Major Outfall Maintenance - Menzi		11/06/2023	10.00	739.00	0.00	0.00	0.00		739.00
	25804	Major Outfall Maintenance - Menzi		11/13/2023	12.50	938.48	0.00	295.01	0.00		1,233.49
	25804	Major Outfall Maintenance - Menzi		11/14/2023	10.00	739.00	0.00	579.70	0.00		1,318.70
	25804	Major Outfall Maintenance - Menzi		11/15/2023	4.00	295.60	0.00	231.88	0.00		527.48
	25804	Major Outfall Maintenance - Menzi		11/16/2023	10.00	739.00	0.00	579.70	0.00		1,318.70
	25804	Major Outfall Maintenance - Menzi		11/27/2023	13.00	978.37	0.00	591.46	0.00		1,569.83
	25804	Major Outfall Maintenance - Menzi		11/30/2023	17.00	1,300.48	0.00	589.50	0.00		1,889.98
	25804	Major Outfall Maintenance - Menzi		12/04/2023	5.00	369.50	0.00	289.85	0.00		659.35
	25804	Major Outfall Maintenance - Menzi		12/05/2023	8.00	591.20	0.00	426.48	0.00		1,017.68
	25804	Major Outfall Maintenance - Menzi		12/06/2023	5.00	369.50	0.00	579.70	0.00		949.20
	25804	Major Outfall Maintenance - Menzi		12/07/2023	9.50	702.05	0.00	550.72	0.00		1,252.77
	25804	Major Outfall Maintenance - Menzi		12/11/2023	9.00	688.66	0.00	305.53	0.00		994.19
	25804	Major Outfall Maintenance - Menzi		12/12/2023	5.00	369.50	0.00	289.85	0.00		659.35
	25804	Major Outfall Maintenance - Menzi		12/13/2023	10.00	739.00	0.00	579.70	0.00		1,318.70
	<b>Work Order 25804 Total</b>		<b>15300 BURNT STORE RD, FL, 33955</b>		128.00	9,559.33	0.00	5,889.08	0.00	17,235.00	15,448.42

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Project	WO Number	WO Description	Location	Date Worked	Labor Hours	Labor Cost	Materials Cost	Equip. Cost	Contractor Cost	Work Accomp	Total Cost
	26092	Major Outfall Maintenance - Menzi		11/15/2023	7.00	529.08	0.00	309.45	0.00		838.53
	26092	Major Outfall Maintenance - Menzi		11/16/2023	11.50	861.63	0.00	558.56	0.00		1,420.19
	<b>Work Order 26092 Total</b>		<b>LILLIS ST, PUNTA GORDA, FL, 33982</b>		18.50	1,390.71	0.00	868.01	0.00	7,410.00	2,258.72
	26356	Major Outfall Maintenance - Menzi		11/17/2023	10.00	739.00	0.00	579.70	0.00		1,318.70
	26356	Major Outfall Maintenance - Menzi		11/21/2023	15.00	1,137.95	0.00	579.70	0.00		1,717.65
	<b>Work Order 26356 Total</b>		<b>SUNFLOWER ST, PUNTA GORDA, FL, 33982</b>		25.00	1,876.95	0.00	1,159.40	0.00	7,776.00	3,036.35
	26816	Major Outfall Maintenance - Menzi		11/22/2023	12.00	898.58	0.00	579.70	0.00		1,478.28
	26816	Major Outfall Maintenance - Menzi		11/28/2023	15.00	1,137.95	0.00	579.70	0.00		1,717.65
	26816	Major Outfall Maintenance - Menzi		11/29/2023	12.00	898.58	0.00	587.54	0.00		1,486.12
	26816	Major Outfall Maintenance - Menzi		11/30/2023	9.50	702.05	0.00	550.72	0.00		1,252.77
	26816	Major Outfall Maintenance - Menzi		12/01/2023	6.00	443.40	0.00	347.82	0.00		791.22
	<b>Work Order 26816 Total</b>		<b>PEACE RIVER SHORES BLVD, PUNTA GORDA, FL, 33982</b>		54.50	4,080.56	0.00	2,645.48	0.00	11,112.00	6,726.04
	27980	Major Outfall Maintenance - Menzi		12/01/2023	4.00	295.60	0.00	234.76	0.00		530.36
	27980	Major Outfall Maintenance - Menzi		12/05/2023	10.00	739.00	0.00	579.70	0.00		1,318.70
	27980	Major Outfall Maintenance - Menzi		12/06/2023	10.00	739.00	0.00	579.70	0.00		1,318.70
	27980	Major Outfall Maintenance - Menzi		12/12/2023	10.00	739.00	0.00	579.70	0.00		1,318.70
	<b>Work Order 27980 Total</b>		<b>BERMONT RD, PUNTA GORDA, FL, 33982</b>		34.00	2,512.60	0.00	1,973.86	0.00	11,199.00	4,486.46
	29273	Major Outfall Maintenance - Menzi		12/13/2023	10.00	739.00	0.00	579.70	0.00		1,318.70

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	29273	Major Outfall Maintenance - Menzi		12/15/2023	10.00	739.00	0.00	579.70	0.00		1,318.70
	29273	Major Outfall Maintenance - Menzi		12/19/2023	10.00	739.00	0.00	579.70	0.00		1,318.70
	29273	Major Outfall Maintenance - Menzi		12/20/2023	10.00	739.00	0.00	579.70	0.00		1,318.70
	29273	Major Outfall Maintenance - Menzi		12/21/2023	9.00	665.10	0.00	492.74	0.00		1,157.85
	29273	Major Outfall Maintenance - Menzi		12/22/2023	10.00	739.00	0.00	579.70	0.00		1,318.70
	29273	Major Outfall Maintenance - Menzi		12/28/2023	8.50	628.15	0.00	492.74	0.00		1,120.90
	29273	Major Outfall Maintenance - Menzi		12/29/2023	10.00	739.00	0.00	579.70	0.00		1,318.70
	Work Order 29273 Total		BERMONT RD, PUNTA GORDA, FL, 33982		77.50	5,727.25	0.00	4,463.69	0.00	27,155.00	10,190.95
	29778	Major Outfall Maintenance - Menzi		12/19/2023	7.00	529.08	0.00	297.69	0.00		826.77
	29778	Major Outfall Maintenance - Menzi		12/20/2023	6.75	509.13	0.00	289.85	0.00		798.99
	29778	Major Outfall Maintenance - Menzi		12/21/2023	4.00	295.60	0.00	231.88	0.00		527.48
	Work Order 29778 Total		25151 Zemel Rd.		17.75	1,333.81	0.00	819.42	0.00	7,103.00	2,153.24
	Major Outfall Maintenance - Menzi Total				419.75	31,225.68	0.00	21,443.67	0.00	104,538.00	52,669.39
	20061	MSBU Administrative Work		10/19/2023	3.00	276.84	0.00	3.92	0.00		280.76
	20061	MSBU Administrative Work		10/30/2023	4.00	371.04	0.00	11.76	0.00		382.80
	20061	MSBU Administrative Work		11/14/2023	3.00	559.44	0.00	0.00	0.00		559.44
	20061	MSBU Administrative Work		10/04/2023	0.50	36.95	0.00	0.00	0.00		36.95
	20061	MSBU Administrative Work		10/11/2023	1.00	73.90	0.00	0.00	0.00		73.90
	20061	MSBU Administrative Work		10/12/2023	2.50	184.75	0.00	0.00	0.00		184.75
	20061	MSBU Administrative Work		10/17/2023	1.50	110.85	0.00	0.00	0.00		110.85
	20061	MSBU Administrative Work		10/23/2023	2.00	147.80	0.00	0.00	0.00		147.80

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## South Charlotte Storm Water Utility Unit

Project	WO Number	WO Description	Location	Date Worked	Labor Hours	Labor Cost	Materials Cost	Equip. Cost	Contractor Cost	Work Accomp	Total Cost
	20061	MSBU Administrative Work		10/24/2023	0.50	36.95	0.00	0.00	0.00		36.95
	20061	MSBU Administrative Work		10/25/2023	1.50	110.85	0.00	0.00	0.00		110.85
	20061	MSBU Administrative Work		10/27/2023	4.50	332.55	0.00	0.00	0.00		332.55
	20061	MSBU Administrative Work		10/30/2023	2.00	147.80	0.00	0.00	0.00		147.80
	20061	MSBU Administrative Work		11/02/2023	1.50	110.85	0.00	0.00	0.00		110.85
	20061	MSBU Administrative Work		11/07/2023	1.00	73.90	0.00	0.00	0.00		73.90
	20061	MSBU Administrative Work		11/08/2023	2.50	184.75	0.00	0.00	0.00		184.75
	20061	MSBU Administrative Work		11/13/2023	0.50	36.95	0.00	0.00	0.00		36.95
	20061	MSBU Administrative Work		11/21/2023	0.50	36.95	0.00	0.00	0.00		36.95
	20061	MSBU Administrative Work		11/27/2023	0.75	55.43	0.00	0.00	0.00		55.43
	20061	MSBU Administrative Work		11/28/2023	2.50	184.75	0.00	0.00	0.00		184.75
	20061	MSBU Administrative Work		12/04/2023	0.25	18.48	0.00	0.00	0.00		18.48
	20061	MSBU Administrative Work		12/05/2023	1.00	73.90	0.00	0.00	0.00		73.90
	20061	MSBU Administrative Work		12/19/2023	1.00	73.90	0.00	0.00	0.00		73.90
	20061	MSBU Administrative Work		12/21/2023	1.00	73.90	0.00	0.00	0.00		73.90
		<b>Administrative Time Total</b>			28.50	2,106.15	0.00	0.00	0.00		2,106.16
	20061	MSBU Administrative Work		10/30/2023	3.00	221.70	0.00	0.00	0.00		221.70
		<b>MSBU Meeting Total</b>			3.00	221.70	0.00	0.00	0.00		221.70
	20061	MSBU Administrative Work		10/30/2023	2.00	147.80	0.00	0.00	0.00		147.80
		<b>MSBU Minutes Total</b>			2.00	147.80	0.00	0.00	0.00		147.80
	<b>Work Order 20061 Total</b>				43.50	3,682.97	0.00	15.68	0.00	0.00	3,698.66
	<b>MSBU Administrative Work Total</b>				43.50	3,682.97	0.00	15.68	0.00	0.00	3,698.66

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## South Charlotte Storm Water Utility Unit

Project	WO Number	WO Description	Location	Date Worked	Labor Hours	Labor Cost	Materials Cost	Equip. Cost	Contractor Cost	Work Accomp	Total Cost
	3843	Project Management		11/14/2023	0.00	0.00	0.00	0.00	1,140.00		1,140.00
	3843	Project Management		12/08/2023	0.00	0.00	0.00	0.00	1,140.00		1,140.00
	3843	Project Management		10/03/2023	0.25	21.36	0.00	0.98	0.00		22.34
	3843	Project Management		10/04/2023	0.25	21.36	0.00	0.98	0.00		22.34
	3843	Project Management		10/05/2023	0.25	21.36	0.00	0.98	0.00		22.34
	3843	Project Management		10/06/2023	0.25	21.36	0.00	0.98	0.00		22.34
	3843	Project Management		10/11/2023	0.25	21.36	0.00	0.98	0.00		22.34
	3843	Project Management		10/12/2023	0.25	21.36	0.00	0.98	0.00		22.34
	3843	Project Management		10/13/2023	0.25	21.36	0.00	0.98	0.00		22.34
	3843	Project Management		10/17/2023	0.25	21.36	0.00	0.98	0.00		22.34
	3843	Project Management		10/18/2023	0.25	21.36	0.00	0.98	0.00		22.34
	3843	Project Management		10/19/2023	0.25	21.36	0.00	0.98	0.00		22.34
	3843	Project Management		10/20/2023	0.25	21.36	0.00	0.98	0.00		22.34
	3843	Project Management		10/31/2023	0.25	21.36	0.00	0.98	0.00		22.34
	3843	Project Management		11/01/2023	0.25	21.60	0.00	0.98	0.00		22.58
	3843	Project Management		11/02/2023	0.25	21.60	0.00	0.98	0.00		22.58
	3843	Project Management		11/07/2023	0.25	21.60	0.00	0.98	0.00		22.58
	3843	Project Management		11/08/2023	0.25	21.60	0.00	0.98	0.00		22.58
	3843	Project Management		11/09/2023	0.25	21.60	0.00	0.98	0.00		22.58
	3843	Project Management		11/14/2023	0.25	21.60	0.00	0.98	0.00		22.58
	3843	Project Management		11/15/2023	0.25	21.60	0.00	0.98	0.00		22.58
	3843	Project Management		11/16/2023	0.25	21.60	0.00	0.98	0.00		22.58
	3843	Project Management		11/17/2023	0.25	21.60	0.00	0.98	0.00		22.58

Monthly Funding Report

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12/31/2023

South Charlotte Storm Water Utility Unit

Project	WO Number	WO Description	Location	Date Worked	Labor Hours	Labor Cost	Materials Cost	Equip. Cost	Contractor Cost	Work Accomp	Total Cost
	3843	Project Management		11/28/2023	0.25	21.60	0.00	0.98	0.00		22.58
	3843	Project Management		11/29/2023	0.25	21.60	0.00	0.98	0.00		22.58
	3843	Project Management		11/30/2023	0.25	21.60	0.00	0.98	0.00		22.58
	3843	Project Management		12/01/2023	0.25	21.60	0.00	0.98	0.00		22.58
	3843	Project Management		12/05/2023	0.25	21.60	0.00	0.98	0.00		22.58
	3843	Project Management		12/06/2023	0.25	21.60	0.00	0.98	0.00		22.58
	3843	Project Management		12/07/2023	0.25	21.60	0.00	0.98	0.00		22.58
	3843	Project Management		12/08/2023	0.25	21.60	0.00	0.98	0.00		22.58
	3843	Project Management		12/12/2023	0.25	21.60	0.00	0.98	0.00		22.58
	3843	Project Management		12/13/2023	0.25	21.60	0.00	0.98	0.00		22.58
	3843	Project Management		12/14/2023	0.25	21.60	0.00	0.98	0.00		22.58
	3843	Project Management		12/15/2023	0.25	21.60	0.00	0.98	0.00		22.58
		Project Inspection Total			8.25	710.00	0.00	32.34	0.00		742.26
	3843	Project Management		11/17/2023	0.25	21.60	0.00	0.00	0.00		21.60
		Project Meetings Total			0.25	21.60	0.00	0.00	0.00		21.60
	3843	Project Management		11/08/2023	0.50	43.21	0.00	0.00	0.00		43.21
	3843	Project Management		11/09/2023	0.25	21.60	0.00	0.00	0.00		21.60
	3843	Project Management		11/14/2023	0.25	21.60	0.00	0.00	0.00		21.60
	3843	Project Management		12/01/2023	0.25	21.60	0.00	0.00	0.00		21.60
	3843	Project Management		12/06/2023	0.25	21.60	0.00	0.00	0.00		21.60
		Plan/Spec Review Total			1.50	129.62	0.00	0.00	0.00		129.61
	Work Order 3843 Total	South County Landscape Maintenance			10.00	861.22	0.00	32.34	2,280.00	0.00	3,173.47

#21-054 Landscape Maintenance ROW - South County

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## South Charlotte Storm Water Utility Unit

Project	WO Number	WO Description	Location	Date Worked	Labor Hours	Labor Cost	Materials Cost	Equip. Cost	Contractor Cost	Work Accomp	Total Cost
	4058	Project Management		10/10/2023	2.00	170.90	0.00	0.00	0.00		170.90
	4058	Project Management		10/11/2023	1.00	85.45	0.00	0.00	0.00		85.45
	4058	Project Management		10/12/2023	1.00	85.45	0.00	0.00	0.00		85.45
	4058	Project Management		10/13/2023	2.00	170.90	0.00	0.00	0.00		170.90
	4058	Project Management		10/17/2023	2.00	170.90	0.00	0.00	0.00		170.90
	4058	Project Management		10/18/2023	1.00	85.45	0.00	0.00	0.00		85.45
	4058	Project Management		10/19/2023	1.00	85.45	0.00	0.00	0.00		85.45
	4058	Project Management		10/20/2023	1.00	85.45	0.00	0.00	0.00		85.45
	4058	Project Management		10/24/2023	1.00	85.45	0.00	0.00	0.00		85.45
	4058	Project Management		10/26/2023	2.00	172.82	0.00	0.00	0.00		172.82
	4058	Project Management		10/27/2023	2.00	172.82	0.00	0.00	0.00		172.82
	4058	Project Management		10/31/2023	2.00	172.82	0.00	0.00	0.00		172.82
	4058	Project Management		11/07/2023	1.00	86.41	0.00	0.00	0.00		86.41
	4058	Project Management		11/09/2023	1.00	86.41	0.00	0.00	0.00		86.41
	4058	Project Management		11/14/2023	2.00	172.82	0.00	0.00	0.00		172.82
	4058	Project Management		11/15/2023	1.00	86.41	0.00	0.00	0.00		86.41
	4058	Project Management		11/16/2023	2.00	172.82	0.00	0.00	0.00		172.82
	4058	Project Management		11/17/2023	1.00	86.41	0.00	0.00	0.00		86.41
	4058	Project Management		11/28/2023	1.00	86.41	0.00	0.00	0.00		86.41
	4058	Project Management		11/29/2023	1.00	86.41	0.00	0.00	0.00		86.41
	4058	Project Management		11/30/2023	1.00	86.41	0.00	0.00	0.00		86.41
	4058	Project Management		12/01/2023	1.00	86.41	0.00	0.00	0.00		86.41
	4058	Project Management		12/05/2023	1.00	86.41	0.00	0.00	0.00		86.41

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South Charlotte Storm Water Utility Unit

Project	WO Number	WO Description	Location	Date Worked	Labor Hours	Labor Cost	Materials Cost	Equip. Cost	Contractor Cost	Work Accomp	Total Cost
	4058	Project Management		12/07/2023	1.00	86.41	0.00	0.00	0.00		86.41
	4058	Project Management		12/08/2023	1.00	86.41	0.00	0.00	0.00		86.41
	4058	Project Management		12/14/2023	1.00	86.41	0.00	0.00	0.00		86.41
Work Order 4058 Total					34.00	2,926.42	0.00	0.00	0.00	0.00	2,926.42
c390202 - National Pollution Discharge Elimination											
		Project Management Total			44.00	3,787.64	0.00	32.34	2,280.00	0.00	6,099.89
South Charlotte Storm Water Utility Unit Total					508.15	38,765.55	0.00	21,491.69	2,280.00		62,537.20

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Project	WO Number	WO Description	Location	Date Worked	Labor Hours	Labor Cost	Materials Cost	Equip. Cost	Contractor Cost	Work Accomp	Total Cost
Grand totals for all MSBUs reported					508.15	38,765.55	0.00	21,491.69	2,280.00		62,537.20

## RESPONSES FROM SMES ON SCOPE OF WORK FOR HYDROLOGY STUDY

### INTRODUCTION

Thank you for providing a copy of Part II of the Scope of Work for the proposed hydrology study and the map of the target area. This was shared with Subject Matter Experts (those with relevant engineering backgrounds) from three communities – Burnt Store Village, Burnt Store Lakes, and Pirate Harbor. These individuals are not members of the South Charlotte Stormwater MSBU but have been involved in advocating for this study.

The responses from these individuals are provided below following my summary comments.

### OVERVIEW

**From Dr. Mary Ellen Kiss, Chair South Charlotte Stormwater MSBU and Founding Member of the Burnt Store Corridor Coalition (BSCC)**

- Inclusion of Burnt Store Marina in the study area. They are part of the Yucca Pens Preserve. We recognize that this is difficult due to the area being located outside of Charlotte County, but there are implications for Hog Creek and the Burnt Store Lakes Community. It would be valuable to add this area to the study area. **It would include drainage from the entire watershed. Watersheds do not understand political boundaries. If it is in the watershed, it will be included. It should be noted again that this is a very high-level study of the major stormwater infrastructure.**
- Specification of the six new communities and their locations currently under construction on Burnt Store Road and Zemel Road. These do not appear to be highlighted on the map. The existing older communities, specifically Burnt Store Lakes, Burnt Store Village, Pirate Harbor, Woodland Estates and Burnt Store Colony have concerns about the impact of these developments despite assurances from the County that the developers are required to uphold strict water management standards. **Everything in the watershed will be included with all of the latest information that we have. It should be noted again that this is a very high-level study of the major stormwater infrastructure.**
- Emphasis on how best to address water management in the older communities referenced above. While some of us are cognizant of earlier platting designs, most individuals moving into or building in these communities do not have a point of reference. These communities are at the terminus of the watershed and were



platted at a time when development was in embryonic stages. Those living in these older communities that do not have the benefit of forward thinking water management planning need to better understand the impact of continued new development and responsibilities of maintenance on their respective communities. Further, the County needs to be sensitive to the issues that continued build-out of these communities has on each community's infrastructure. We do recognize the rights of property owners to build, however there are no County protections going forward into the future to ensure the viability of water management systems designed in the 1970s (unlike the protections that are currently in place for new developments). **The study will be completing assuming full buildout based of the entire area based on land use (as well as existing developments). The model will include the major drainage infrastructure and will show the impacts of the entire area at full build out. It should be noted again that this is a very high-level study of the major stormwater infrastructure.**

- While the local Street and Drainage MSBUs were established to address local community concerns, there continue to be questions regarding boundaries of responsibility between the County and the local community. As the commentary provided below indicates, there are several blue ways that directly affect these older communities: Clark Canal, Jean LaFitte Canal, Bear Branch Creek, and Hog Creek. Pirate Harbor is directly affected by the watershed flowing into Clark and Jean LaFitte Canals, as are the communities of Burnt Store Village and Burnt Store Colony. Burnt Store Lakes bears the brunt of water management as a result of the flow-through from Bear Branch and Hog Creeks. Burnt Store Village, Woodland Estates, Turtle Crossing and Burnt Store Marina are also affected. Please see the yellow highlighted sections in the response from the SME from Burnt Store Village below. **Please see below.**
- We are very pleased that the SOW includes consultation with SWFWMD, the Army Corps of Engineers, DEP, as well as other regulatory bodies. This is critical if we are to gain a comprehensive picture of the hydrology of the area and the impact of the watershed on these older communities and ultimately Charlotte Harbor. While the "lakes" in Burnt Store Lakes are retention/detention ponds, those located on the west side of Cape Horn Boulevard are subject to tidal influences either directly or indirectly. Is this a private community problem or one that needs direct County intercession? **The lakes and waterways are on POA property. It should be noted that post development drainage must go to the location that the predevelopment drainage is currently going to; therefore, no new water will be going to any of the waterways once these areas are developed. That same water is going through the waterways currently.**
- The same question applies to the rim ditch around Burnt Store Village and Woodland Estates and the continued problems faced by residents of Pirate



Harbor. All post development drainage must go to the location that the predevelopment drainage is currently going to; therefore, no new water will be going to any of the waterways once these areas are developed. That same water is going through the waterways currently.

- While the road widening project for the last segment of Burnt Store Road is considered essential and critical, the hydrology study needs to consider the impact of the widening on the study area that borders the Lee County line. The study will include the entire watershed for the major stormwater infrastructure. The roadway design will also have to include drainage into the design and cannot adversely impact upstream or downstream of the roadway.
- **WE ASK THAT THIS DOCUMENT BE INCLUDED AS AN ADDENDUM TO THE SOW, IF POSSIBLE. WE ALSO ASK THAT SMES FROM THE AFFECTED COMMUNITIES BE INVOLVED WITH THE CONTRACTOR AS EARLY IN THE PROCESS AS POSSIBLE AND PRIOR TO ANY PUBLIC HEARINGS** This document cannot be an addendum to the scope of work; however, we can go over it with the selected firm when we are creating the final scope and fee with them. We do want to get all of your input but also remember that every meeting had with the consultant will be more money. We will need to have a finite amount of meetings for the consultant so they can budget accordingly. Staff will be working with the consultant primarily. Our suggestions for meetings are followed but if you would like to see more, let us know but again, the cost will keep going up. Our suggestion would be to have one public meeting (not public hearing) to allow for everyone to be able to provide their input. The consultant can come twice to the MSBU, once with their preliminary findings and ask for input, and then their final presentation. Staff would also suggest we include for them to come at one board meeting to present their final findings.

## SUBJECT MATTER EXPERT SUMMARIES

### From BURNT STORE VILLAGE (BSV)

Listed below are the reasons I asked two years ago for a hydrology study. Use this as a guide. Most important is the fact that we MUST control the sheet flow. We cannot let it run through our communities uncontrolled.

#### SHEET FLOW SOUTH OF ZEMEL MUST BE CONTROLLED

Presently sheet flow has been directed into the rim ditch of BS Village. BS Village rim ditch was designed in the 1970's to carry the Village through build-out. Recently the County Engineer has declared our system inadequate, by today's standards. This call came after Hurricane Ian caused the harbor to back-up which caused our drainage system to also back-up. It put 3 ft. of water on the streets in the southern portion of BS Village. Not because it was raining; but because of sheet flow coming from the State Preserve Lands that was directed into the BS Village rim ditch. This flooding also occurred during Hurricane Irma, when the harbor was high and sheet flow entered BS Village ditch. Staff has never said that the stormwater system was inadequate. It was stated that the area was designed before permitting was required and we do not know what it was designed to and may not meet the standards that are required today. It is an unknown. Charlotte County is an area that is extremely tidal influenced. When a tidal event is occurring, it does not matter how well your stormwater system is designed to, it will not work until the tides are released. This hydrology study will not include tidal scenarios.

#### DAMAGE CAUSED BY FLOODING IN BS VILLAGE

When the harbor is high, preventing our system from draining into bear branch, it caused water to flood our lower streets. When the harbor receded the rush of water into our rim ditch eroded the ROW and the ditch bank. Both times this occurred, it also flooded our sanitary sewer system causing raw sewage to flow on the streets of our Community. The second time it caused a break in our force main from the sewage pumping station. This allowed raw sewage to be pumped onto our streets and continuing to flow through neighboring BS Lakes and onto the Harbor. Charlotte County is an area that is extremely tidal influenced. When a tidal event is occurring, it does not matter how well your stormwater system is designed to, it will not work until the tides are released. This hydrology study will not include tidal scenarios.

The uncontrolled sheet flow entering our system has also caused damage to Burnt Store Road. Our system drains under BS Road at the South end of Turtle Crossing Plaza, through three culvert pipes. Culvert pipes that were clogged by debris. The back-up of water not only caused the problems discussed in BS Village, but also caused water to saturate the ground on either side of the drainage ditch. This



jeopardized the paved road in Turtle Crossing Plaza. When the culvert pipes clogged up, water eventually found a way to the Harbor by worming its way over, under and around the clogged culvert pipes. This process compromised the integrity of BS Road. The County has since rip-rapped the area and poured a concrete bulkhead to secure the culvert pipes. Water will still find a way to the Harbor when the culvert pipes are once again clogged by storm debris. **Staff understands the concerns; however, we cannot stop mother nature. We have many unforeseen and unstoppable issues during storm events. When you have a category 4 hurricane you are going to have debris and it may get caught up in areas and cause temporary issues. These are things we have to deal with when it happens, and it is county wide.**

Burnt Store Road is our evacuation route.

### CONCLUSION

Three more projects uphill of BS Village along Zemel Road have been approved. Eagle Creek, Prince Ranch and Mark Linder with a total of 2, 249 home sites. Storm water run-off from these properties will enter the BS Village system unless something is done. **All water in post development must go where the water goes in the predevelopment condition; therefore, not water will be entering the BS village system that is not currently going there now.**

Sheet flow coming off the State Preserve Land could be directed into a storm water retention pond if one were constructed.

- A retention pond that would relieve the burden on BS Village outdated private system.
- A retention pond that could meter storm flow running under BS Road and through BS Lakes community.
- A retention pond that would direct water to the box culvert under BS Road, the intended route for Bear Branch Creek.

Such a storm water retention pond, would ease the burden on the communities of BS Village, BS Lakes, Woodland Estates, the Turtle Crossing Plaza, and it would relieve the stress on our primary evacuation route, Burnt Store Road.

Yes, it comes with a price tag, however, the cost of not acting now will be greater. **The state will not allow water to be redirected. If anything, additional water would need to be retained onsite and released slower to prevent flooding downstream. All water in post development must go where the water goes in the predevelopment condition; therefore, not water will be entering the BS village system that is not currently going there now.**

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**THE BURNT STORE AREA PLAN OF 2005** never included the existing platted residential developments such as, BS Village, BS Lakes, etc. Nor did it address drainage or roadway impacts on those developments. Instead, a Public, Private, Partnership (PPP) was formed with a group of large property owners in the area. Their mission was to address comprehensive issues of concern to the Burnt Store Corridor. (???)

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**WHAT THE PPP PLAN DOESN'T ADDRESS:**

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- A. Existing Platted Developments - BS Village, BS Lakes, etc.
  - B. Drainage
  - C. Roadway Impacts (Vincent or Zemel?)
- 

The 2005 Burnt Store Area Plan called for the establishment of Blue Ways. Blue Ways could be used as wildlife corridors as well as allowing a path to the Harbor for storm water. The South end of Burnt Store Road in Charlotte County has three (3) named Aquifers (Blue Ways) and one unnamed pathway to the Harbor.

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1. The Clark Canal. This Canal runs from Route 41 near Tuckers Grade to the Harbor on the North side of Pirate Harbor.
  2. The second is an unnamed outflow which carries water to the Harbor by way of the Jean LaFitte Canal on the South side of Pirate Harbor. This water way is an area of major concern:
    - A. It carries all the storm runoff from the West end of Zemel Rd, which includes two commercial properties.
    - B. A portion of BS Colony
    - C. It drains two-thirds of BS Village, approximately one thousand home sites with five hundred homes and eight miles of road.
    - D. One mile of Burnt Store Road - all four lanes, both ROW's, both sidewalks, and the median all drain into Storm water retention Pond 2B. The outflow of Pond 2B then drains into the Private Drainage System of BS Village—County admitting they did not know it was part of the BS Village Private System. The County purchased a small section of it, relieving BSV POA from the burden of maintenance.
- 

All this accumulating water flow must go under BS Road at the corner of Zemel Road through four (4) culvert pipes. Culvert pipes of this length are almost impossible to keep open & free of debris. Water flowing through these necked-down pipes must flow faster causing turbulence. This turbulence has contributed to the erosion of the Jean LaFitte Canal, to the extent that it is compromising the integrity of Jean LaFitte Blvd. BS Village has also endured flooding and erosion due to this same set of four culvert pies. **Culverts are utilized not only throughout Florida but the entire Country to convey stormwater under roadways and is a standard industry practice. During large storm events they can get clogged but typically work well and are not an issue. The culverts are sized utilizing**



sound engineering practices and permitted the same way throughout the state. These culverts were sized and permitted using those same practices. It should also be noted that there is a tidal influence in this area that can affect the drainage system. When a tidal event is occurring, it will not matter what the stormwater system is designed to as it will not work until the tides go down.

**3&4.** The third and fourth aquifers are: Bear Branch and Hog Creek. Both drain sheet flow from the Cecil M. Webb Preserve. An area that runs south from the Clark Canal to the Lee County Line and west from Rt. 41 to the BS Road area. The water build-up along the East side of BS Road is allowed to drain to the Harbor in two areas. A box culvert under BS Road just south of the BS water Treatment Facility. This outlet feeds Hog Creek. Hog Creek then flows uncontrolled through the South section of BS Lakes. An uncontrolled flow that has caused flooding and erosion in BS Lakes on numerous occasions. The remainder of the sheet flow in this area is designed to flow into a small pond with an overflow weir. Then under BS Road through a box culvert continuing to flow through the center of BS Lakes as Bear Branch Creek. Bear Branch Creek has been the cause of street flooding in BS Lakes as well as erosion. The erosion has caused the creek bed to reshape itself to a degree that dredging may be required. BS Village has also experienced flooding and damage from the sheet flow coming from Cecil M. Webb Preserve. This flooding was caused because the sheet flow coming out of the Preserve has been redirected into the private rim ditch of BS Village. This redirection occurred shortly after Charlotte County declared the private BS Village ditch as a "Primary" ditch. A contractor building a fire break road around a portion of Cecil M. Webb Preserve reshaped the contour of the land allowing the sheet flow from the Preserve to flow into the newly named "Primary" ditch. A ditch designed in the 1970's, but we are told, is not adequate by today's standards and yet it is doing double duty and has allowed water to a depth of three feet to flow on the streets of BS Village. The receding flood water has ruptured the force main coming from our sewage pumping station, putting raw sewage on BS Village streets, and eventually draining to the Harbor. This same ditch picks up the storm flow from Woodland Estates (Harborside Woods I) before flowing under BS Road through three culvert pipes. Then after two (2) 90 degree turns, this flow joins the intended path of Bear Branch Creek. **I do not know the details of what is being discussed above. It should be noted that staff has never said that the stormwater system was inadequate. It was stated that the area was designed before permitting was required and we do not know what it was designed to and may not meet the standards that are required today. It is an unknown. It should also be noted that stormwater systems are only designed for certain events and there have been times where rain events exceed the design parameters which are permitted. It would not be cost effective to design for storm events that exceed the parameters.**

## **IN CONCLUSION**

Why doesn't the County have a storm water retention pond that would capture the sheet flow coming from the Cecil M. Webb Preserve? A storm water retention pond that could allow sediment to drop-out. A pond that could meter the discharge to prevent flooding. A pond that could prevent pollution from reaching the Harbor.



Why is the sheet flow from the Webb Preserve still allowed to flow into the BS Village rim ditch? The water from this area has always flowed in this location and is considered historical flow. Nothing additional is flowing there that hasn't always done so.

Why is Charlotte County unloading their responsibilities on the communities of the BS Corridor? I believe this is referring to the fact that some of the historical waterways are on POA property. This occurs in many areas of the County, state, and probably united states. All new development must meet certain criteria including meeting pre/post analysis. This means that a site not only has to release only the pre-condition rates of stormwater, but they also have to release it in the same location to not alter flow of stormwater.

Only two places along BS Road in Charlotte County does storm water pass under BS Road through culvert pipes —Zemel Road at BS Road and at the South end of Turtle Crossing strip mall, where the BS Village rim ditch passes through three culvert pipes. Both places are the sites of significant erosion.

Now with construction along the corridor booming once again, we have an opportunity to take control to prevent the mistakes of the PPP Plans omissions.

#### **Response from BURNT STORE LAKES (BSL)**

My initial reaction is that there are not enough descriptions/quantifications of existing conditions to prepare a cost estimate for the engineering work. The scope that has been reviewed is the generic scope to hire a consultant based on qualifications. Consultants will be ranked based on their proposals and the board will select the firm. Once a firm is selected, staff negotiates with the firm to get a detailed scope and fee. This is when the details will be included.

I used to be a partner in an engineering consulting firm in Chicago doing water and wastewater treatment and conveyance projects. If I had gotten this scope of services, I would not have known how to respond and put a price on the engineering services. The scope that has been reviewed is the generic scope to hire a consultant based on qualifications. Consultants will be ranked based on their proposals and the board will select the firm. Once a firm is selected, staff negotiates with the firm to get a detailed scope and fee. This is when the details will be included.

#### **Response from PIRATE HARBOR (PH)**

This looks like what is needed. We know where most of the water is flowing now. More blacktop means more water coming west.

My only comment pertains to the "data collection" line 1.

I see the term "permitted projects". How are future development land considered that are not yet permitted. Future developments will be looked at based on land use for the undeveloped land.

My input to the survey will be to consider dams for the streams flowing into the harbor. There should be some holdback of tainted water, trash, etc. Cape Coral canal dams are an example.

## **PART II SCOPE OF SERVICES**

**RP-17 PROJECT DESCRIPTION:** Charlotte County is seeking proposals from interested engineering firms for a drainage study of the Burnt Store Area. The study shall include data collection, baseline ICPR modeling of the drainage system, identifying deficiencies, public meetings, final modeling with permitted developments, and preparation of an improvement plan, project budgetary analyses, cost/benefit analyses, and recommendations.

**RP-18 DEFINITIONS:**

Primary Drainage Infrastructure - Canals, ditches, lakes, detention ponds, and their conveyance systems as well as outfalls.

Secondary Drainage Infrastructure - Roadside swales, driveway pipes, and curb and gutter system.

**RP-19 SCOPE OF SERVICES:**

The study shall focus on primary drainage infrastructure, with the option to include secondary drainage infrastructure as requested by the County.

The Scope of Services shall include, but not be limited to, the following:

**A. Data Collection and Baseline Modeling**

- Collect best available survey, design, and as-built data regarding existing conditions and permitted projects from Charlotte County, Southwest Florida Water Management District, USACOE, FDEP, and any other sources.
- Perform field reconnaissance including necessary field survey, delineating drainage basins, identifying and inventorying critical pipes, canals, ditches, control structures, and outfalls on the primary conveyance system (both public and private). Identify and collect high water marks and controlling boundary conditions.
- Conduct two public meetings on two separate days to collect general input/data from area residents and identify areas of concern.
- Prepare a baseline model using ICPR version 4.07.08 of the existing system.
- Prepare a report of all work conducted during this phase, including identified deficiencies, recommended areas of additional study and data collection, and a plan of action for the next phase.
- Conduct a public meeting to present findings and results.

**B. Final Modeling, Analysis, and Recommendations**

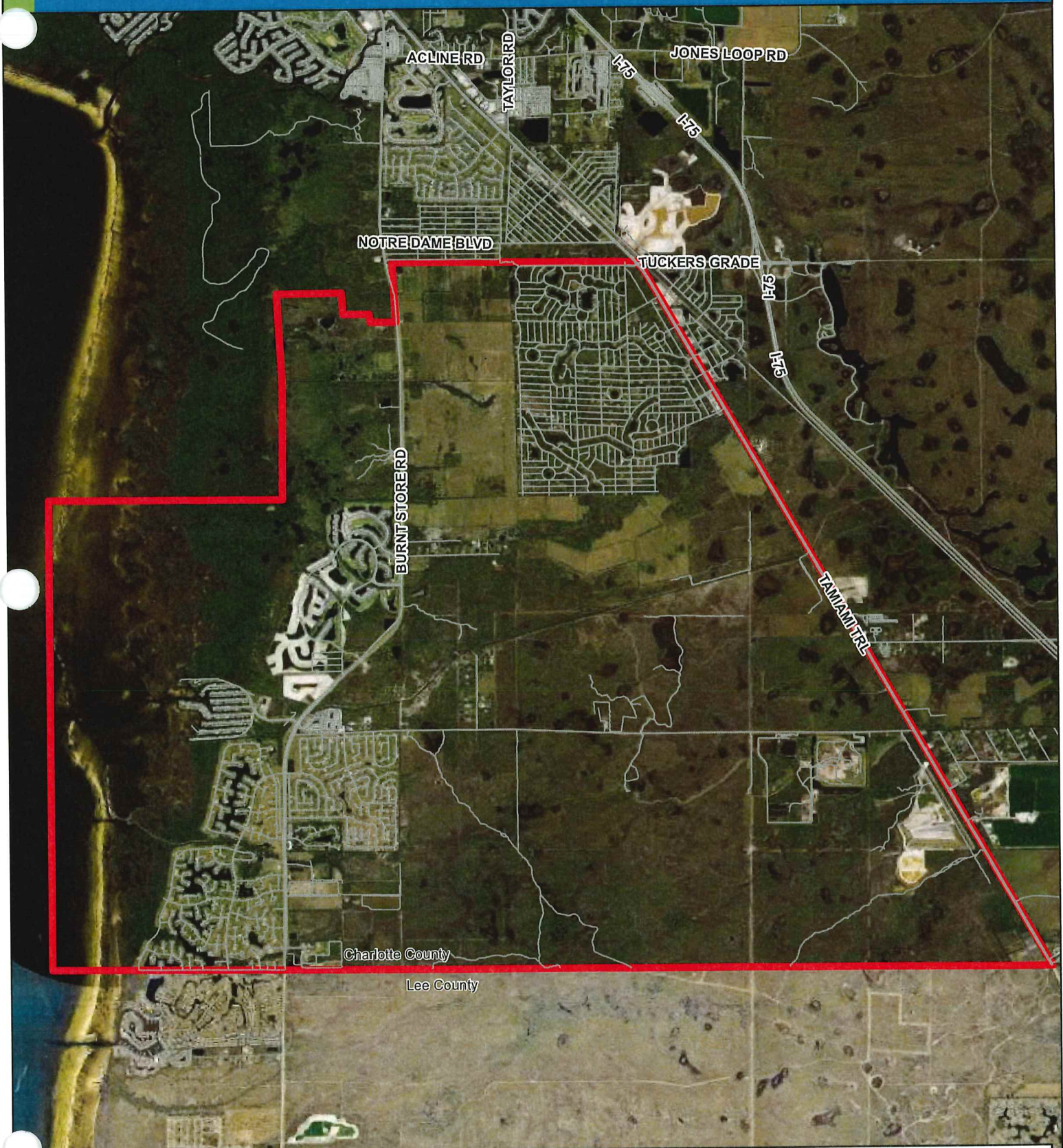
- Collect additional data (including surveying if needed) in order to refine ICPR model.
- Update ICPR model (including permitted future developments) and develop Improvement Plan.
- Prepare budget analyses of proposed improvement projects, concept plans, and analyze cost/benefits.
- Prepare a report of all work conducted during this phase, including proposed projects, and cost/benefits.
- Conduct a public meeting to present findings and results.

**END OF PART II**



# Burnt Store Area Drainage Study

(Some Watersheds Extend Beyond Study Area)



Stateplane Projection  
Datum: NAD83  
Units: Feet

Source: Public Works

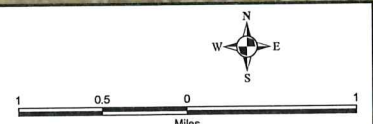
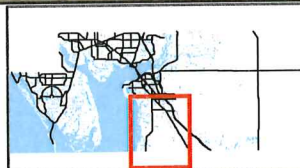
Metadata available upon request

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## Legend



Study Area



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Updated: 3/19/2024 1:01:34 PM by: D Jorge  
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**SOUTH CHARLOTTE STORMWATER  
Municipal Service Benefit Unit (MSBU)  
FY23 Annual Report – Executive Summary  
October 1, 2022 – September 30, 2023**

**Purpose**

**Code of Laws and Ordinances, ARTICLE XV. – SOUTH CHARLOTTE  
STORMWATER UTILITY UNIT, Sec. 4-5-345 – Purpose.**

The purpose of the unit is to provide for the financing, design, construction, maintenance and operation of a stormwater management system, plan for future infrastructure needs for drainage, accrue or borrow funds for future work, and carry out such work for all primary drainage infrastructure as determined by the county engineer. The purpose shall include the financing of the county's National Pollutant Discharge Elimination System's (NPDES) permit and its requirements, as well as any costs associated with the total maximum daily loads (TMDLs) program. The purpose shall also include water quality monitoring and native and invasive aquatic plant control with the use of chemical, biological and mechanical methods.

**Summary**

**Current Rate: \$24.32 Acre Vacant  
\$26.75 Acre Occupied**

**Max Rate: \$26.75**

The FY23 completed work program included all internal maintenance and administrative costs, and contracted services for specialty mowing, water quality monitoring, the NPDES permit, and pipe lining.

The current fiscal year work program includes all internal maintenance and administrative costs, and contracted services for specialty mowing, water quality monitoring, aquatic weed services, the NPDES permit, the TMDL program and pipe lining.

For FY25, includes budgeting for all internal maintenance and administrative costs, and contracted services for specialty mowing, water quality monitoring, aquatic weed services, the NPDES permit, and pipe lining.



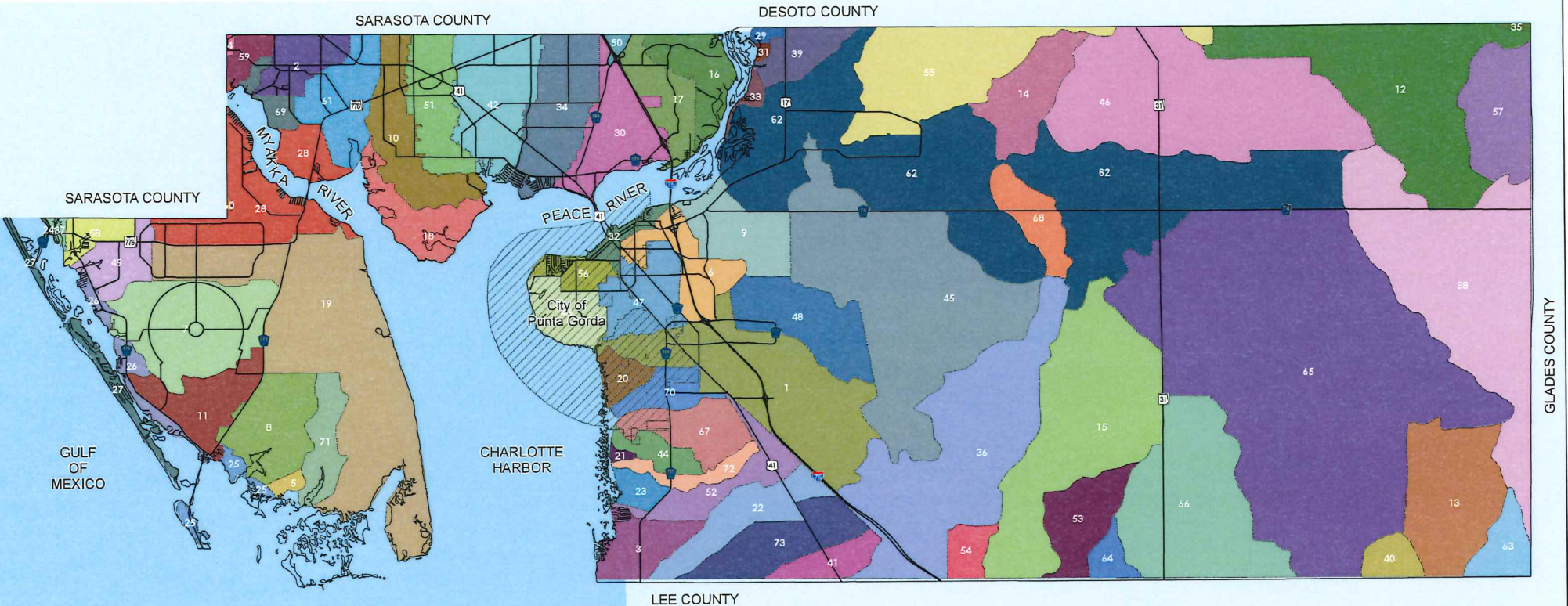
Community  
Development

# CHARLOTTE COUNTY Major Drainage Basins

Charlotte County Government

"To exceed expectations in the delivery of public services."

www.CharlotteCountyFL.gov



Stateplane Projection  
Datum: NAD83  
Units: Meters

Source: Public Works  
CCGIS

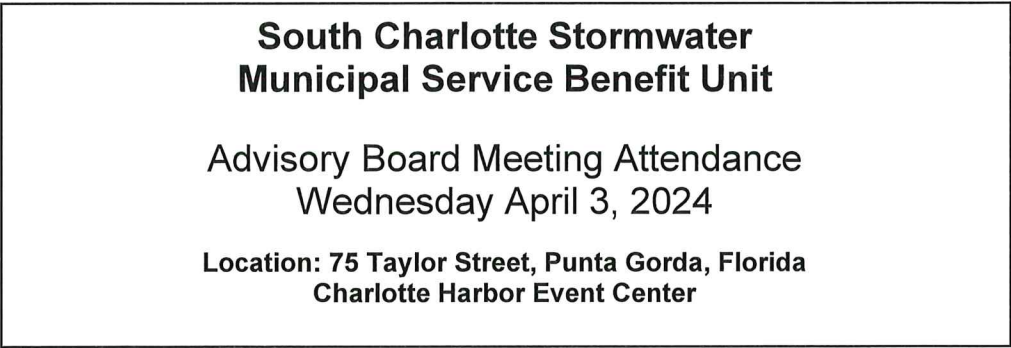
Metadata available upon request

- |                         |                        |                          |                            |                           |                             |                        |                      |                     |                     |
|-------------------------|------------------------|--------------------------|----------------------------|---------------------------|-----------------------------|------------------------|----------------------|---------------------|---------------------|
| 1. Alligator Creek      | 9. Cleveland Cem Ditch | 17. Deep Creek Subdiv.   | 25. DR To Gasparilla Sound | 33. DR To Peace River     | 41. Lee County Creek 1      | 49. Oyster Creek       | 57. Rainey Slough    | 65. Telegraph Creek | 73. Yucca Pen Creek |
| 2. Apollo/Jupiter Wtr   | 10. Como Waterway      | 18. Direct Runoff To Bay | 26. DR To Lemon Bay        | 34. Fordham/Niagra        | 42. Little Alligator C      | 50. Peace River        | 58. Rock Creek       | 66. Trout Creek     |                     |
| 3. Bear Branch          | 11. Coral Creek        | 19. DR To Bay            | 27. DR To Lemon Bay Gulf   | 35. Gannet Slough         | 43. Mangrove Point Canal    | 51. Pellam/Auburn Wtrw | 59. Rock Creek 2     | 67. Unnamed Canal 1 |                     |
| 4. Big Slough Canal     | 12. Cow Slough         | 20. DR To Bay            | 28. DR To Myakka River     | 36. Gilchrist Drain Powel | 44. Mound Creek             | 52. Pirale Canal       | 60. Rock Creek Ditch | 68. Unnamed Ditch   |                     |
| 5. Boggess Hole Outflow | 13. Cypress Creek      | 21. DR To Bay            | 29. DR To Peace River      | 37. Gottfried Creek       | 45. Myrtle Slough 1         | 53. Popash Creek       | 61. Sam Knight Creek | 69. Venus Waterway  |                     |
| 6. Broad Creek          | 14. Cypress Slough     | 22. DR To Bay            | 30. DR To Peace River      | 38. Jacks Branch          | 46. Myrtle Slough 2         | 54. Powell Creek       | 62. Shell Creek      | 70. Whidden Branch  |                     |
| 7. Buck Creek           | 15. Daughtrey Creek    | 23. DR To Bay            | 31. DR To Peace River      | 39. Lee Branch            | 47. N. Fork Alligator Creek | 55. Prairie Creek      | 63. Spanish Creek    | 71. Whidden Creek   |                     |
| 8. Catfish Creek Bayou  | 16. Deep Creek         | 24. DR To Bay            | 32. DR To Peace River      | 40. Lee Only Creek 2      | 48. N. Prong Alligator      | 56. Punta Gorda Isles  | 64. Stroud Creek     | 72. Winegourd Creek |                     |



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