

MARTIN SANITARY DIVERSION DRAIN
INTRA-COUNTY DRAINAGE BOARD
AUGUST 08, 2022
10:00 A.M.
AGENDA

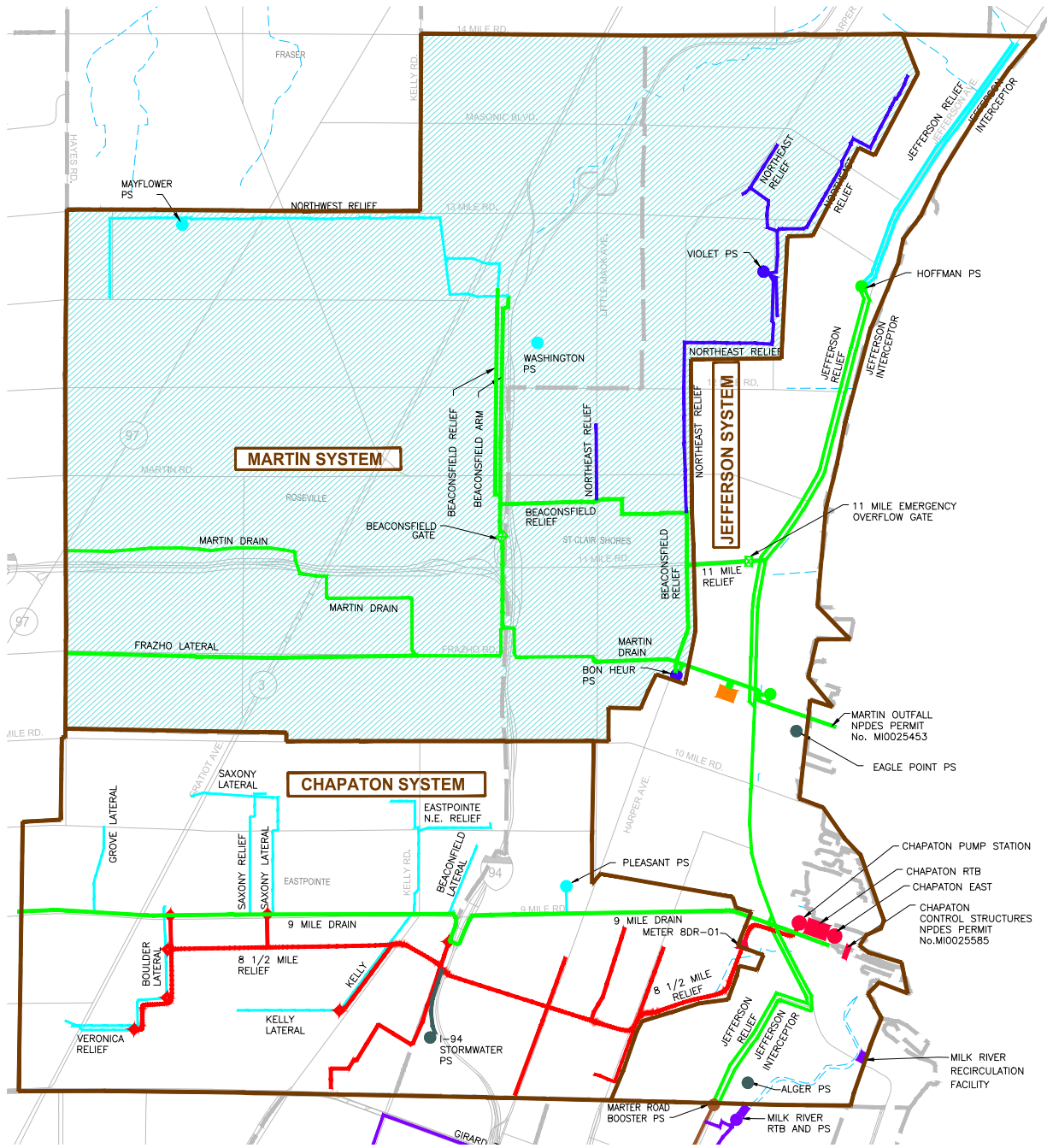
**NOTE: THIS MEETING WILL BE HELD IN PERSON WITH TELECONFERENCE
OPTION FOR PUBLIC**

**Call in Number: 1-318-935-0311
Access Code: 118 069 190**

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for August 08, 2022	
3. Approval of Minutes for July 11, 2022	3
4. Public Participation	
5. Project & Operations Update – Vince Astorino	5
6. Martin Sanitary Diversion Drain Proposed 2022/23 Budget – Brian Baker	9
Motion: To approve the 2022/23 Martin Sanitary Diversion Drain budget and revenue requirement for the fiscal year beginning October 1, 2022	
7. Consideration for approval of invoices (see attached)	23
8. Financial Report – Bruce Manning	24
9. Adjourn	

Hard copy is intended to be 8.5"x11" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

MARTIN SYSTEM MAP
Macomb County, MI
Southeast Macomb Sanitary District
Wastewater Master Plan



SYSTEM LEGEND

(AS OF DATE OF PUBLICATION)

- SYSTEM BOUNDARY

DISTRICT LEGEND

(AS OF DATE OF PUBLICATION)

- 8 1/2 MILE RELIEF DRAIN DRAINAGE DISTRICT
- SOUTHEAST MACOMB COUNTY WASTEWATER DISPOSAL SYSTEM
- MARTIN SANITARY DIVERSION DISTRICT
- SOUTHEAST MACOMB SANITARY DISTRICT
- NORTHEAST SEWAGE DISPOSAL SYSTEM
- MILK RIVER INTERCOUNTY DRAIN DRAINAGE DISTRICT
- LOCAL MUNICIPALITY
- OTHER

ASSET LEGEND

- PUMP STATION
- FLOW CONTROL STRUCTURE
- RETENTION TREATMENT BASIN
- GRAVITY INTERCEPTOR
- OVERFLOW POINT

PLOT INFO: Z:\2018\181053\CAD\PRECED\SEMSD_OVERALL.DWG LAYOUT: FIG 3-4_MARTIN SYS DATE: 1/25/2020 TIME: 7:48:56 AM USER: MESEDKI

An adjourned meeting of the Intra-County Drainage Board for the **MARTIN SANITARY DIVERSION DRAIN** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham Clinton Township, Michigan on July 11, 2022, at 11:03 A.M.

PRESENT: Candice S. Miller, Chair
Vince Viviano, Member

EXCUSED: Harold Haugh, Member

ALSO PRESENT: Vince Astorino, Operations & Flow Manager; Brian Baker, Chief Deputy; Stephen Downing, Construction and Maintenance Manager; Bruce Manning, Finance Manager; Pam Sonnenberg, Administrative Assistant

PRESENT VIA TELECONFERENCE: Mary Shepard, Environmental and Safety Services Supervisor City of Sterling Heights

The meeting was called to order by the Chair, Candice Miller. A motion was made by Mr. Viviano, supported by Ms. Miller to approve the agenda as presented.

Adopted: YEAS: 2
NAYS: 0

Minutes of the meeting of June 13, 2022 were presented. A motion was made by Mr. Viviano, supported by Ms. Miller to approve the minutes as presented.

Adopted: YEAS: 2
NAYS: 0

The meeting was opened to public participation, then closed, there being no comments from the public.

Ms. Miller asked if there were any questions regarding the Project and Operations Update as presented in the packet and Mr. Viviano said he had no questions.

A motion was made by Mr. Viviano, supported by Ms. Miller to receive and file the project and operations updates as presented.

Adopted: YEAS: 2
NAYS: 0

Mr. Baker then presented the Martin petitioned In-System Storage project resolution. This project was petitioned by the cities of St. Clair Shores and Roseville. Last month, there was a public hearing set for July 11, 2022 to review the apportionments. The good news is that there will be no cost to the residents because we will have state, federal, SEMSD, and/or county funding for this project. This is a necessary hearing for objections on final apportionments. The apportionments remain the same. The City of St. Clair Shores portion is 22% and the City of Roseville portion is 78%. We have attached the presentation that Mr. Astorino made last month for the public's reference. We will seek bids next month and plan to award the bid by October.

A motion was made by Mr. Viviano, supported by Ms. Miller to adopt the final order of apportionment resolution for the Martin Drain petitioned project.

Adopted: YEAS: 2
NAYS: 0

The Chair presented the invoices totaling \$170,854.99 to the board for review and approval.

A motion was made by Mr. Viviano, supported by Ms. Miller to approve the invoices as presented.

Adopted: YEAS: 2
NAYS: 0

A motion to receive and file the financial report given by Mr. Manning was made by Mr. Viviano and supported by Ms. Miller.

Adopted: YEAS: 2
NAYS: 0

There being no further business, it was moved by Mr. Viviano, supported by Ms. Miller, that the meeting of the Martin Sanitary Diversion Drain Board be adjourned.

Adopted: YEAS: 2
NAYS: 0

The meeting was adjourned at 11:07 a.m.



Candice S. Miller, Chair
Macomb County Public Works Commissioner

STATE OF MICHIGAN
COUNTY OF MACOMB

I certify that the foregoing is a true and correct copy of proceedings taken by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, on July 11, 2022 the original of which is on file in the Public Works Commissioner's Office. Public notice of the meeting was given pursuant to Act No. 267, Public Acts of Michigan, 1975, including, in the case of a special or rescheduled meeting or a meeting secured for more than 36 hours, notice by posting at least 18 hours prior to the time set for the meeting.



Candice S. Miller Chair
Macomb County Public Works Commissioner

DATED: 07/11/22



Candice S. Miller

Public Works Commissioner
Macomb County

To: Martin Sanitary Diversion Drainage District Board Members

CC: File

From: Vincent Astorino, Operations & Flow Manager

Date: August 8, 2022

Subject: Construction Projects Status Updates for the August 2022 Board Meeting

The following provides a status update for construction work completed within the Martin Sanitary Diversion Drain District (MSDDD) for the previous month.

Wet Weather Operations

No wet weather events for this past month.

Martin Flushing Improvements Project

Contractor: L. D'Agostini & Sons, Inc.

Engineering Consultant: AEW

Project Description:

This project consists of the installation of two small sluice gates and a concrete weir within the Martin Retention Treatment Basin (RTB) to aid in flushing sediment and debris. The existing piped flushing systems at the facility are largely abandoned and require the use of storm water or lake water to use as the water source. This adds cost since these sources ultimately become metered flow. In 2016, MCPWO obtained approval from EGLE for a pilot program to use dry-weather flow in the Martin Drain as the flushing water source. This program involves installing temporary stoplogs within the influent channel of the RTB to divert flow through the three main zones within the RTB. This program was successful but requires manned-entries to install and reconfigure the stoplogs. The completion of this project will provide remotely-operated gates and a passive weir to direct flow where needed.

Significant project tasks that have occurred over the past month:

1. Received, reviewed, and approved submittals from Contractor.
2. The contractor made hydraulic and electrical connections to the Hydraulic Power Unit in the control building basement as required.

3. Aluminum access hatches and concrete risers were cast in place at 2 locations at the west end of the basin.
4. The Contractor has installed flushing gates with hydraulic actuators at 2 locations in line with the north and center flushing channels.
5. The construction site was backfilled and graded with topsoil. Additionally, the contractor placed seeded straw blankets as part of site restoration requirements.

Construction Costs:

	Date (if applicable)	Amount
Original Contract Amount	10/19/21	\$610,049.34
Change Order	-	-
Revised Contract Amount	-	-
Total Spent to Date	Pay Apps 1 - 3	\$575,181.87
Remaining Budget		\$34,867.47

Figure 1 – New Basin Access Hatches and Concrete Risers



Figure 2 - Installed New Flushing Gates to Intermediate Basin Wall



Figure 3 - New Hydraulic and Electrical Conduit for Gate Operation



Figure 4 – Placed Topsoil and Straw Seed Blankets



Martin Sanitary Diversion Drainage District 2022/23 Budget Summary

Attached is the proposed 2022/23 Martin budget for the fiscal year beginning October 1, 2022. The budget is scheduled to be adopted at the August 8, 2022 Drain Board meeting. The cities of Roseville and St. Clair Shores have received a copy of the proposed budget. The budget includes a detailed explanation for each budget item change.

In summary, the proposed budget funds improved operations and maintenance of our aging assets and for projects to further improve water quality. The community contribution increase of 4.9% is in line with the projected 5% increase provided to the two communities earlier this year and upon which their own budgets were established.

The budget includes:

1. \$1.1 million toward the design, construction and administration of a \$2 million project to replace or rehabilitate the dry weather gate, drain vault, HVAC blower and ductwork in the Martin retention basin.
2. \$100,000 for new chlorine sample pumps, \$75,000 to replace the equipment crane, \$70,000 for a grant match to replace the parking lot using green infrastructure, \$44,000 for a computerized door entry system, \$30,000 to replace the basin equipment hatch, and \$18,000 for replacement building lighting and two entry doors.

The Martin In-System Storage project will be funded with Federal, County and SEMSD funds, so no new debt or assessment for this project will be necessary. The budget carries over \$481,290 for this project from previously collected funds. The overall Martin budget declined due to the completion of the Flushing System upgrade project.

Other carry over funding includes \$29,090 for as needed Engineering services, \$20,000 for sewer repairs, \$10,970 for the district's share of a replacement SCADA server, and \$9,950 to design the basin equipment hatch.

Personnel costs rose by \$20,710 based the County's wage schedules. There is no change in staffing levels. Savings were realized from lower Nexgen renewal costs and one time equipment purchases last year, offset by higher costs for sodium hypochlorite, laboratory testing supplies, and repair and maintenance needs.

**MARTIN SANITARY COMMUNITIES
TOTAL CHARGES
FY 2022 vs FY 2023**

Total Cost Category	2021/2022 Charge	2022/2023 Charge	Difference	% Change
Martin	1,011,270	1,061,070	49,800	4.9%
TOTAL	1,011,270	1,061,070	49,800	4.9%

Communities	2021/2022 Charge	2022/2023 Charge	Difference	% Change
Roseville (78.09%)	789,700	828,590	38,890	4.9%
St. Clair Shores (21.91%)	221,570	232,480	10,910	4.9%
TOTAL	1,011,270	1,061,070	49,800	4.9%

MARTIN SANITARY
2022/2023 Charge
EFFECTIVE OCTOBER 1, 2022

			Roseville	St. Clair Shores	Total
COMMUNITY ASSESSMENTS	Total Annual	Monthly	78.09%	21.91%	100.00%
MARTIN SANITARY	1,061,070	88,422	69,049	19,373	88,422
		O&M Total	828,590	232,480	1,061,070
		Debt Total	0	0	0
		Annual Total	828,590	232,480	1,061,070

MARTIN SANITARY
Operations and Maintenance
Budget to Actual

Description	Page #	Actual 2020/2021	Actual 5/31/2022	Projected 9/30/2022	Budget 2021/2022	Budget 2022/2023	Budget Change	% Change
EXPENSE								
Application/Permit Fee	4	6,000	408	6,000	6,000	6,000	0	0.0%
Dues, Training & Licenses	5	2,663	3,073	3,250	4,830	3,310	(1,520)	-31.5%
Engineering	6	424,218	246,713	1,082,086	2,400,990	1,678,320	(722,670)	-30.1%
Equipment	7	12,342	4,164	5,170	5,120	1,000	(4,120)	-80.5%
Operating Supplies	8	46,903	27,335	61,890	44,880	61,950	17,070	38.0%
Other Professional Svcs	9	5,618	4,935	9,700	8,750	9,800	1,050	12.0%
Personnel Services	10	152,000	82,627	198,830	199,390	220,100	20,710	10.4%
Repair & Maintenance	11	54,905	23,732	34,790	58,800	371,800	313,000	532.3%
Contribution to SCADA Reserve	12	5,810	0	5,810	5,810	5,810	0	0.0%
SCADA	12	19,408	11,678	14,350	20,510	34,620	14,110	68.8%
Utilities	13	40,419	34,482	45,590	42,550	45,600	3,050	7.2%
Total Expenses		770,286	439,146	1,467,466	2,797,630	2,438,310	(359,320)	-12.8%
REVENUE								
Interest Earned		2,651	1,128	5,000	2,400	5,000	2,600	108.3%
Contribution from Community-O&M		920,550	1,011,270	1,011,270	1,011,270	1,061,070	49,800	4.9%
SEMSD Funds ¹		70,845	0	600,000	600,000	0	(600,000)	100.0%
Use of Reserves/Funds Previously Collected		0	0	0	0	778,000	778,000	100.0%
Use of SCADA Reserves		0	1,872	1,870	0	12,950	12,950	0.0%
Carry Forward		0	0	0	1,183,960	581,290	(602,670)	-50.9%
Total Revenue		994,046	1,014,270	1,618,140	2,797,630	2,438,310	(359,320)	-12.8%

Reserves: 1,612,120 1,739,304 378,844

NOTES:

Design Basin Equipment Hatch	9,950	9,950	0
As Needed Engineering	18,725	23,120	0
Flushing System Upgrades-Design, Const, CCA	807,127	0	0
Misc Sewer Repairs	20,000	20,000	0
Parking Lot Resurface	15,000	30,000	0
SolarWinds-Network Management Software	1,940	1,940	0
Obsolete Wireless Backhaul Replacement Links	3,230	3,230	0
Fiber Optic improvements	3,220	3,220	0
Firewall Hardware Design/Config	2,580	2,580	0
Gates/Vault/RTB Ductwork Project	0	778,000	0
In System Storage	329,155	481,280	0
SCADA Reserves	14,242	18,180	11,040
Capital Reserves ²	386,950	367,804	367,804
Total Reserves	1,612,120	1,739,304	378,844

Non Committed Reserve 386,950 367,804 367,804
 (Excludes life cycle and carryover)

¹Funds from SEMSD for In System storage project.

²Reserves for needed future Martin rehab projects.

**FY 2022-2033
MARTIN SANITARY BUDGET DETAIL SHEET
EXPENDITURE REQUEST SHEET**

FUND:	0072	P/Y BUDGET:	\$	6,000
ACTIVITY:	Application/Permit Fee	REQUEST:	\$	6,000
		INC/(DEC.):		0

ACCOUNT EXPLANATION:

	DESCRIPTION	22/23	21/22
96901	1) Annual NPDES Permit	6,000	6,000
	Total	6,000	6,000

INCREASE/DECREASE EXPLANATION:

1) This is 100% Martin. 8.5 Mile billed separately.

**FY 2022-2033
MARTIN SANITARY BUDGET DETAIL SHEET
EXPENDITURE REQUEST SHEET**

FUND:	0072	P/Y BUDGET: \$	4,830
ACTIVITY:	Dues, Training & Licenses	REQUEST: \$	3,310
		INC/(DEC.): \$	(1,520)

ACCOUNT EXPLANATION:

	DESCRIPTION	22/23	21/22
95901	1) Certification, Licenses, Training	950	600
82001	2) Dues, Membership & Subscription	140	100
WO20041	3) NexGen Renewal	2,220	4,130
	Total	3,310	4,830

INCREASE/DECREASE EXPLANATION:

- 1,2) Split with SEMCWWDS, Martin and 8.5 Mile.
-
- 1) Operators state certified for RTBs and annual confined space training. Cost of training increasing.
-
- 3) Annual renewal for the asset management software. Cost is split with County IT and the balance is split 50% MIDD, the other 50% is split 10% SEMCWWDS, 15% Martin and 25% 8.5 Mile. Decrease due to 21/22 budgeted too high.
-

**FY 2022-2033
MARTIN SANITARY BUDGET DETAIL SHEET
EXPENDITURE REQUEST SHEET**

FUND: 0072
ACTIVITY: Engineering

P/Y BUDGET: \$ 2,400,990
REQUEST: \$ 1,678,320
INC/(DEC.): \$ (722,670)

ACCOUNT EXPLANATION:

PROJECT #	DESCRIPTION	22/23	21/22
WO19077	1) Basin Equipment Hatch Replacement	30,000	0
WO	2) Gates/Vault/RTB Ductwork Project	1,108,000	0
	Total New Projects	1,138,000	0
WO18072	3) As Needed Engineering	29,090	25,000
WO21023	4) In-System Storage Design & CCA	481,280	1,551,000
WO19076	5) Flushing System Upgrades-Design, Const, CCA	0	795,040
	6) Misc Sewer Repairs	20,000	20,000
WO19077	7) Basin Equipment Hatch Replacement Design	9,950	9,950
	Total Carryover Projects	540,320	2,400,990
	Total All Projects	1,678,320	2,400,990

INCREASE/DECREASE EXPLANATION:

1,7) The basin equipment hatch used to cover the opening in which large equipment is lowered into the retention

basin is at the end of its useful life. This hatch will be replaced with a new and safe to open / close hatch.

2) This project includes: Gates, Vault, Blower and RTB ductwork projects. The dry weather gate controls dewatering into the

Jefferson Interceptor after the retention basin is filled. This is a critical component of operations. The current gate is original to

the facility. The dry weather gate and drain vault are both in poor condition. There is exposed electrical connections and

the concrete chambers require some rehabilitation. Demolition of the old flushing system which includes pipe and pump removal

along with properly abandoning the old flushing chambers. The basement currently has several significant infiltration points

which will be grouted and sealed. The HVAC blower and ductwork for the RTB has reached the end of its useful life will also

be replaced to provide a safe working environment when confined space entry's need to occur. Projected cost of this project is

expected to be 2 Million.

3) Item for unexpected engineering projects that may arise during the year. This will be bid out to

assure we receive the best price.

4) This project consists of installing in-system storage devices within the Martin Drain to maximize storage within the

interceptor. This installation is expected to gain 5.2 million gallons of additional storage and reduce treated overflows

by approximately 20% annually. Total projected cost is \$5.6 million for this project.

Collected (Martin Budget/SEMSD)	1,618,000
Use for Project #2	(778,000)
Spent of as 5/31/2022	(265,561)
Projected to Spend by 9/30/2022	(93,159)
Carryover balance	481,280
Federal Earmark/County ARP	4,784,280
Funds Spent/Projected	358,720
Total Project	5,624,280

5) Flushing System should be completed by 9/30/2022.

6) Design of repairs from any issues found during the sewer inspection.

**FY 2022-2033
MARTIN SANITARY BUDGET DETAIL SHEET
EXPENDITURE REQUEST SHEET**

FUND: 0072
ACTIVITY: Equipment

P/Y BUDGET: \$ 5,120
REQUEST: \$ 1,000
INC/(DEC.): \$ (4,120)

ACCOUNT EXPLANATION:

PROJECT #	DESCRIPTION	22/23	21/22
	1) Misc (Lab Equip, Bldg Instrumentation, etc)	1,000	1,000
	2) F150 Pickup Truck	0	4,120
	Total New Projects	1,000	5,120
	Total Carryover Projects	0	0
	Total All Projects	1,000	5,120

INCREASE/DECREASE EXPLANATION:

1) As needed equipment that may arise.

2) This vehicle was for the new construction engineer position. This cost was being split among the three SE Macomb drain districts (75/15/10). One time purchase.

**FY 2022-2033
MARTIN SANITARY BUDGET DETAIL SHEET
EXPENDITURE REQUEST SHEET**

FUND: 0072
ACTIVITY: Operating Supplies

P/Y BUDGET: \$ 44,880
REQUEST: \$ 61,950
INC/(DEC.): \$ 17,070

ACCOUNT EXPLANATION:

	DESCRIPTION	22/23	21/22
72650	1) Sodium Hypochlorite	50,000	35,000
96804	2) Personal Protective Equipment	500	300
75001	3) Clothing for operations staff	300	280
72621	4) Laboratory Supplies required by NPDES permit	9,000	7,000
82403	5) Equipment Rental	500	500
72624	6) Office Supplies	100	100
72901	7) Postage	100	200
96104	8) Fuel	650	500
99901	9) Misc	800	1,000
Total		61,950	44,880

INCREASE/DECREASE EXPLANATION:

1 & 4) Fluctuates depending on number of rain events. Increase due to significant higher costs.

2,3) Split with SEMCWWDS, Martin and 8.5 Mile. Increase due to rising costs.

6,7,9) Budget is stated based on current usage.

8) Split with SEMCWWDS, Martin and 8.5 Mile. Increase due to rise in fuel costs.

**FY 2022-2033
MARTIN SANITARY BUDGET DETAIL SHEET
EXPENDITURE REQUEST SHEET**

FUND:	0072	P/Y BUDGET:	\$ 8,750
ACTIVITY:	Other Professional Services	REQUEST:	\$ 9,800
		INC/(DEC.):	\$ 1,050

ACCOUNT EXPLANATION:

	DESCRIPTION	22/23	21/22
80131	1) Contract Laboratory for Permit Overflows	5,000	5,000
	2) Property Insurance	2,400	2,400
	3) Liability Insurance	1,900	1,350
	4) Legal	500	0
	Total	9,800	8,750

INCREASE/DECREASE EXPLANATION:

- 1) Fluctuates depending on number of rain events. Used for testing
discharges per the NPDES permit.
- 2) Property insurance is covered under the county policy. It is billed to this district
by the County. Current budget is based on actuals for past 2 years.
- 3) The cost of liability insurance is allocated between districts depending on their
expenses. Budget is up due to Martin's increase of expenditures.
Drainage Board approved liability insurance for the District.
- 4) Legal is added for the In System Storage easement and SEMSD agreements.

**FY 2022-2033
MARTIN SANITARY BUDGET DETAIL SHEET
EXPENDITURE REQUEST SHEET**

FUND:	0072	P/Y BUDGET:	\$	199,390
ACTIVITY:	Personnel	REQUEST:	\$	220,100
		INC/(DEC.):	\$	20,710

ACCOUNT EXPLANATION:

DESCRIPTION	22/23	21/22
1) Pump Station Operators(6 FT operators and 2 PT)	90,870	84,830
2) Operations Manager	21,680	17,930
3) Asst Operations Manager	14,460	11,940
4) Pump Station Standby	1,500	1,500
5) Overtime	13,000	10,400
6) SCADA Manager Support	9,520	8,440
7) SCADA System Specialist (FT)	7,850	6,470
8) Engineering Support	39,980	36,570
9) Senior Asset Mgmt Tech	7,630	6,720
10) Clerical Support	0	2,480
11) Accounting	1,800	1,460
12) Administrative	8,260	7,310
13) MIDDD Field Operator Reimbursement	3,550	3,340
Total	220,100	199,390

INCREASE/DECREASE EXPLANATION:

1-5) 75% of Chapaton staff is charged to 8.5 Mile Relief District. Remaining 25%
 is split between SEMCWWDS(10%) and Martin(15%).

1-3,5-9,12) Cost based on county wide proposed schedule.

1) Employee turnover resulted in lower pension costs.

2) Higher pension contribution costs estimated for 22/23.

3) Incorrectly used lower salary in 21/22 budget calculation.

5) Increased due to construction projects.

6-9) These positions will spend 37.5% of their time on 8.5 Mile Relief, 5% at SEMCWWDS,
 and 7.5% at Martin. The remaining 50% is with MIDDD.

8) Four engineers performing Martin duties. Retiree health care is projected lower for 22/23

9) Position supports Nexgen tasks for Wastewater. Cost split between MIDDD, 8.5 Mile, Martin,
 SEMCWWDS.

10) Clerical support no longer needed at Martin due to increased use of technology and better processes.

11) 75% of support staff is charged to 8.5 Mile Relief District. Remaining 25%
 is split between SEMCWWDS(10%) and Martin(15%).

12) Cross charge for administrative personnel.

13) Field Operators from the MIDDD provide training and other assistance
 to the Martin Drainage District.

FY 2022-2033
MARTIN SANITARY BUDGET DETAIL SHEET
EXPENDITURE REQUEST SHEET

FUND:	0072	P/Y BUDGET:	\$ 58,800
ACTIVITY:	Repair & Maintenance	REQUEST:	\$ 371,800
		INC/(DEC.):	\$ 313,000

ACCOUNT EXPLANATION:

PROJECT #	DESCRIPTION	22/23	21/22
93001	1) Annual Repair and Maintenance	34,000	28,000
92900	2) Lawn Mowing	800	800
	Total Annual Items	34,800	28,800
WO	3) Crane Replacement & Overhead Trolley Rehab	75,000	0
WO	4) Interior & Exterior Lighting	12,000	0
WO	5) Entry Doors	6,000	0
WO	6) Keyscan Door Entry System	44,000	0
WO	7) New Chlorine Sample Pumps	100,000	0
WO	8) USACE Green Infrastructure Project	70,000	0
	Total New Items	307,000	0
	9) USACE Green Infrastructure Project	30,000	30,000
	Total Carryover Items	30,000	30,000
	Total All Projects	371,800	58,800

INCREASE/DECREASE EXPLANATION:

- 1) Increase is due to repairs required because of aging equipment (gates, roof, actuators).

- 2) Lawn mowing contracted by third party.

- 3) The current equipment crane that is used to lower heavy equipment into the RTB is original to the facility and in need of replacement. This crane rides along a trolley from inside the building to outside over the equipment hatch. That trolley will also be sandblasted and painted.

- 4) The interior and exterior lighting at this facility is original to when it was constructed. These lights are no longer effective and are in need of replacement with a more efficient lighting.

- 5) Two of the main entry doors for this building are in need of replacement.

- 6) Every MCPWO maintained facility has a SCADA integrated Keyscan access in which operators can enter the facility using keyfob access and receive security alerts directly to SCADA. The Martin facility is the only one that does not have this. This cost is the budgetary number for the equipment and installation of that system.

- 7) There are currently only 3 chlorine sample pumps installed within the RTB. The two within the basin are installed in a very poor location. The third is picking up flows when the RTB starts to overflow. MCPWO will install 7 new pumps in appropriate locations within the basin and just like Chapaton will have the ability to check water quality numbers at 3 elevations at each location. There will be 7 new pumps and 1 spare.

- 8) The MSDDD has received a grant from the USACE in the total amount of \$400,000. The grant is a 75/25 split and MSDDD will be required to cover 25% or \$100,000. This project will focus on separating stormwater out of the Martin combined sewer system. The project will include the repaving of the parking lot in addition to other green infrastructure.

- 9) Formerly budgeted as Parking Lot Resurface. These funds will be put towards the \$100,000 match as mentioned in note #8.

FY 2022-2033
MARTIN SANITARY BUDGET DETAIL SHEET
EXPENDITURE REQUEST SHEET

FUND: 0072
ACTIVITY: SCADA

P/Y BUDGET: \$ 20,510
REQUEST: \$ 34,620
INC/(DEC.): \$ 14,110

ACCOUNT EXPLANATION:

PROJECT #	DESCRIPTION	22/23	21/22
WO18077	1) SCADA as needed	6,450	4,840
WO19011	2) Wonderware Software Support	1,290	1,290
WO19012	3) VEEAM Support	180	180
WO19059	4) Comcast Business Service	1,780	1,780
CC0014-92104	5) Cell Modem Service (Verizon)	420	0
WO19102	6) Dell Hardware Support	0	870
WO19015	7) Vmware Software Support	580	580
WO22004	8) SCADA Server Replacement	12,950	0
Total Annual Projects		23,650	9,540
WO22018	9) SolarWinds-Network Management Software	1,940	1,940
WO22016	10) Obsolete Wireless Backhaul Replacement Links	3,230	3,230
WO22017	11) Fiber Optic improvements	3,220	3,220
WO22014	12) Firewall Hardware Design/Config	2,580	2,580
Total Carryover Projects		10,970	10,970
Grand Total SCADA		34,620	20,510
Reserve	Future costs of Server Upgrade - Life Cycle per year	5,810	5,810

INCREASE/DECREASE EXPLANATION:

1) Increase due to anticipating a need to integrate more SCADA related services due to the amount of projects on the list for this fiscal year.

5) Verizon is added as a secondary communication link for SCADA. That way if Comcast goes down we will still have connectivity.

6) No support needed because it is part of the server replacement project.

8) This project will replace the SCADA servers and associated equipment which have reached the end of their useful life. These funds have already been collected as part of the life-cycle reserves. This only reflects Martin's portion.

9) We currently own the base version of this software. The software support has not been kept up and this is to upgrade the software to a business format. This upgraded platform will help streamline communications support for our staff.

10) Several critical wireless links utilize 10-year old technology and can no longer be purchased. Since they have reached the end of their useful life, they are in need of replacement.

11) This will be used to start setting up redundant links for our main SCADA servers. We have had a few issues since the County fiber was installed, when it goes down we completely lose backup abilities between the two servers.

12) The existing firewalls are being dual purposed to act as a security appliance and as an OSPF router. The routing capabilities of the existing firewalls are very limited and often times will cause outages simply due to their poor routing capabilities.

9-12) Projects were delayed.

**FY 2022-2033
MARTIN SANITARY BUDGET DETAIL SHEET
EXPENDITURE REQUEST SHEET**

FUND: 0072
ACTIVITY: Utilities

P/Y BUDGET: \$ 42,550
REQUEST: \$ 45,600
INC/(DEC.): \$ 3,050

ACCOUNT EXPLANATION:

	DESCRIPTION	22/23	21/22
92101	1) Electric Service	13,000	12,000
92102	2) Consumers Energy	3,000	3,000
92103	3) Water	300	300
92113	4) Weather Radar	500	500
	5) Telephone(Cell)	800	750
007292104	6) Internal Service Cost	28,000	26,000
	Total	45,600	42,550

INCREASE/DECREASE EXPLANATION:

1,2,3) Budget is stated based on current usage.

4) Weather Radar split with MIDDD, 8.5 Mile, Martin and SEMCWWDS, total adjusted for the split.

5) Telephone (Cell) split between 8.5, SEMCWWDS and Martin.

6) Represents costs the county Finance charges for items such as telephones,

Treasurer's office, car insurance, IT. Split with SEMCWWDS, Martin and 8.5 Mile.

Current charges based on amount invoiced from County.

MARTIN SANITARY DIVERSION
07.11.22 - 08.02.22

<u>Funding Source</u>	<u>Apportionment</u>	<u>Manager</u>	<u>Vendor</u>	<u>Amount</u>	<u>Invoice Detail</u>	<u>Project Summary</u>	<u>Project Balance</u>
Martin Sanitary Diversion Drain	Chapter 20 Roseville - 78.09% St. Clair Shores - 21.91%	Baker	21st Century Media	\$ 502.93	Invoice #22-251 - 06.15.22	Public Notice	
		Astorino	Fishbeck	\$ 12,883.73	Invoice #413153 - 07.12.22	Martin Flushing System - CCA	\$ 90,955.65
		Astorino	Fishbeck	\$ 4,971.88	Invoice #413167 - 07.12.22	In-System Storage Design 06.11.22 - 07.08.22	\$ 65,002.42
		Astorino	L.D'Agostini & Sons, Inc.	\$ 232,130.39	Invoice #WWS-2021-005 App #3 - 07.25.22	Flushing Improvements	\$ 34,867.47
		Astorino	Mobile Motion Controls	\$ 944.81	Invoice #22-277 - 06.23.22	Hydraulic Valve Replacement	
		Total			\$ 251,433.74		

YTD Budget

Fund: Martin Sanitary Diversion

As of Fiscal Period: Oct 1, 2021-July 31, 2022(83%)

DESCRIPTION	2022 FINAL BUDGET	ENCUMBERED	ACTUAL	REMAINING BUDGET	PCT UTILIZED
REVENUE ACCOUNTS					
Investment Inc-Interest	2,400		642	1,758	26.8%
Contribution from Community	600,000		600,000	-	100.0%
Reimb-Local Communities	1,011,270		1,011,270	-	100.0%
PY Revenue-Fund Balance	1,183,960			1,183,960	0.0%
<i>Total Revenue Accounts</i>	2,797,630	-	1,611,912	1,185,718	57.6%
EXPENSE ACCOUNTS					
Application/Permit Fee	6,000			6,000	0.0%
Dues, Training, Conf, Subs.	4,830		1,025	3,805	21.2%
Engineering					
-As Needed Engineering	25,000		8,170	16,830	32.7%
-Misc Sewer Repairs	20,000		116	19,884	0.6%
-Flushing System Upgrades-Design,Const, and CCA	795,040		459,254	335,786	57.8%
-In System Storage-Design and CCA	1,218,000		141,003	1,076,997	11.6%
-Design Basin Equipment Hatch	9,950			9,950	0.0%
-In System Storage-Design Money from SEMSD	333,000		12,620	320,380	3.8%
New Equipment	5,120		4,164	956	81.3%
Operating Supplies	44,880		34,547	10,333	77.0%
Other Professional Svcs	8,750		5,175	3,575	59.1%
Personnel Services	199,390		82,627	116,763	41.4%
Repair & Maintenance	58,800		34,431	24,369	58.6%
Scada System	26,320		11,891	14,429	45.2%
Utilities	42,550		35,286	7,264	82.9%
<i>Total Expense Accounts</i>	2,797,630	-	830,309	1,967,321	29.7%

	O&M Balance 9/30/2021	O&M	Total 7/31/2022
Cash - Operating	1,656,008	781,603	2,437,611
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		1,611,912	1,611,912
Expenditures		830,309	830,309
Equity	1,656,008		2,437,611

Detail of 2021 Equity

Design Basin Equipment Hatch	9,950	SolarWinds-Net Mgt Software	1,940
Misc Sewer Repairs	20,000	Obsolete Wireless Backhaul Links	3,230
ISS SEMSD Contribution	329,155	Fiber Optic improvements	3,220
Flushing System Upgrades-Design, Const, CCA	807,127	Firewall Hard Design/Config	2,580
CCTV of Dewatering Line and Influent and Effluent Boxes	25,000	Parking Lot Resurface	15,000
SCADA Reserves	14,090		
Capital Reserves	434,716		