

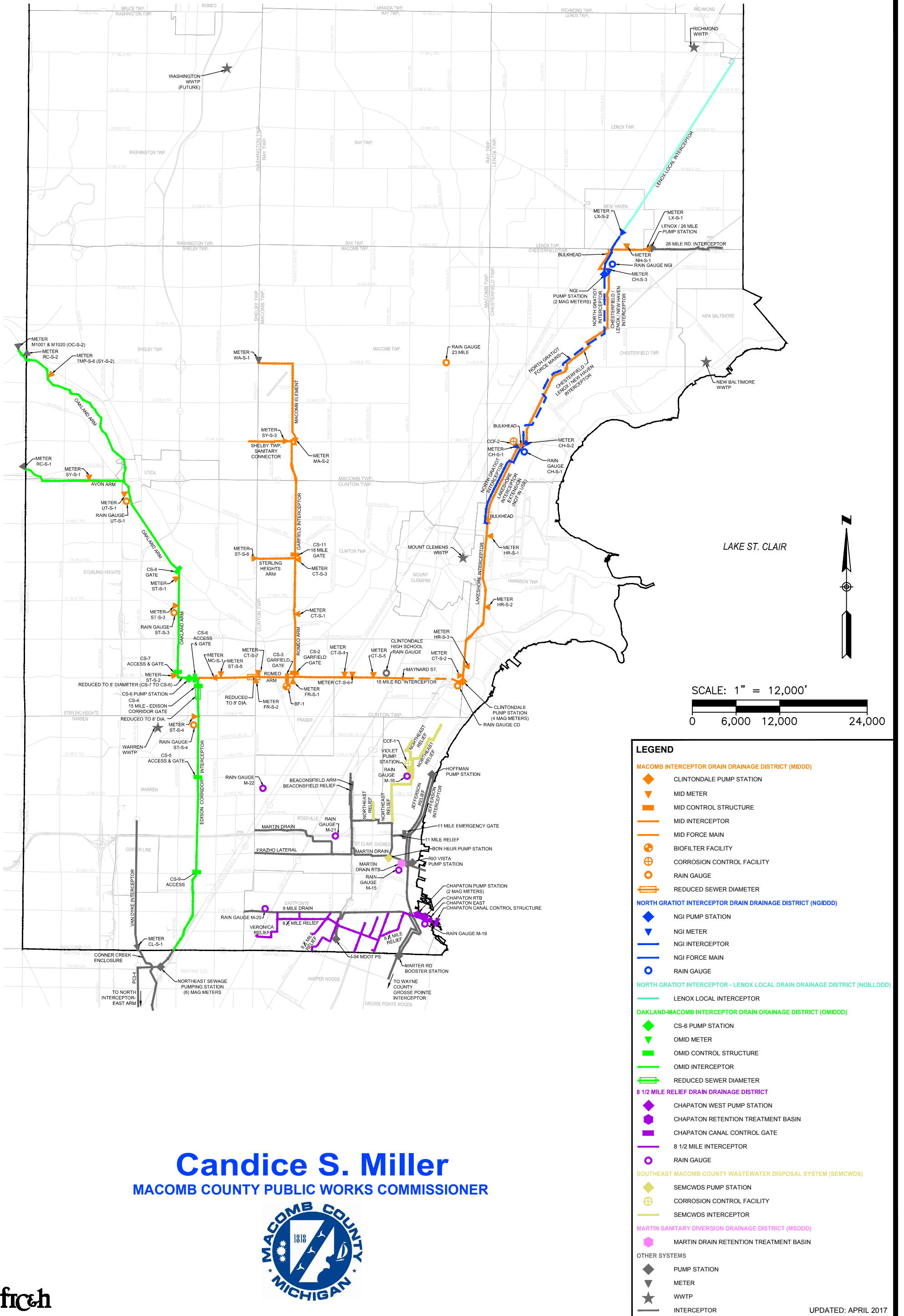
MARTIN SANITARY DIVERSION DRAIN  
INTRA-COUNTY DRAINAGE BOARD  
AUGUST 9, 2021  
10:00 A.M.  
AGENDA

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

**Call in Number: 1-570-671-0198  
Access Code: 812 035 695**

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for August 9, 2021	
3. Approval of Minutes for July 12, 2021	3
4. Public Participation	
5. Project Update – Vince Astorino	5
6. Martin Sanitary Diversion Drain Proposed 2021/22 Budget – Brian Baker	7
Motion: To approve the 2021/22 Martin Sanitary Diversion Drain budget and revenue requirement for the fiscal year beginning October 1, 2021	
7. Consideration for approval of invoices (see attached)	21
8. Financial Report – Bruce Manning	22
9. Adjourn	

# MACOMB COUNTY WASTEWATER SYSTEMS



**Candice S. Miller**

MACOMB COUNTY PUBLIC WORKS COMMISSIONER



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, and virtually per the State Public Act 254 of 2020, on July 12, 2021, at 10:00 A.M.

PRESENT:                Brian Baker, Acting Chair  
                              Harold Haugh, Member

ABSENT:                Bryan Santo, Member

ALSO PRESENT:      Veronica Klinefelt, Don VanSyckel, Macomb County Board of Commissioners; Dan Acciavitti, Deputy Government Relations, Stephen Downing, Construction & Maintenance Manager, Bruce Manning, Financial Manager, Vince Astorino, Operations & Flow Manager, Kellie Kource, Drain Account Specialist, Norb Franz, Communications Manager, Macomb County Public Works; Sydney Hilgendorf, Sterling Heights

The meeting was called to order by the Acting Chair, Brian Baker. A motion was made by Mr. Baker, supported by Mr. Haugh to approve the agenda as presented.

Adopted:            YEAS: 2  
                              NAYS: 0

Minutes of the meeting of June 14, 2021 were presented. A motion was made by Mr. Haugh, supported by Mr. Baker 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.

Mr. Astorino updated the board that we had a significant rain event with Martin taking on 2.46 inches of water and had to discharge 48.5 million treated gallons on June 26th. We were within and below water quality allowances, and Martin handled the rain event very well.

The disinfection project is complete with the pumps being fully operational, and are now ready to correct any items that need to be addressed in order to close out the project.

A motion was made by Mr. Haugh, supported by Mr. Baker to receive and file the project update by Mr. Astorino.

Adopted:            YEAS: 2  
                              NAYS: 0

Mr. Astorino updated the board that we plan to locate the Martin In-System Storage devices by the Bon Hour pump station since that is where the Martin drain splits from a single pipe into a double box. That will give us the ability to construct one box at a time and divert flow without having to bypass. We will also use the Bon Hour pump station to house the controls for the in-system storage devices. The anticipated cost is \$5 million dollars for which we are seeking grant funding. We project this project will reduce annual CSO discharges by 20%.

A motion was made by Mr. Haugh, supported by Mr. Baker to approve the proposal from Fishbeck, ASI, and NTH in the total amount of \$358,720 to perform the work associated with the Martin ISD Design.

Adopted: YEAS: 2  
NAYS: 0

The Chair presented the invoices totaling \$113,737.58 to the board for review and approval.

A motion was made by Mr. Haugh, supported by Mr. Baker 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. Haugh and supported by Mr. Baker.

Adopted: YEAS: 2  
NAYS: 0

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

Adopted: YEAS: 2  
NAYS: 0

The meeting was adjourned at 10:18 a.m.



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Brian Baker, Acting Chair  
Macomb County Public Works Chief Deputy

STATE OF MICHIGAN  
COUNTY OF MACOMB

I certify that the foregoing is a true and correct copy of proceedings taking by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, on July 12, 2021 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.



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Brian Baker, Acting Chair  
Macomb County Public Works Chief Deputy

DATED: 7/12/21



**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 9, 2021

Subject: Construction Projects Status Updates for August 2021 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

**Wet Weather Event 1:** July 16, 2021

**Rainfall:** 2.68 inches

**Treated Discharge Volume:** 62.9 MG Total

**Water Quality Numbers:** 41 cts / 100 ml geometric mean (Permit maximum is 300 cts/ml)

**Description:** This rain event was a significant event for SE Michigan. The 8 ½ Mile Drain Board update provided the complications that arose during this event due to significant rain totals and downstream complications. Due to the successful operations at Chapaton, Martin was not significantly impacted by downstream operations. No major issues occurred at the Martin RTB.

**Wet Weather Event 2:** July 25, 2021

**Rainfall:** 1.57 inches

**Treated Discharge Volume:** 4.4 MG Total

**Water Quality Numbers:** 27 cts / 100 ml geometric mean (Permit maximum is 300 cts/ml)

**Description:** No major issues during this rain event. One item of note is that if the Martin In-System Storage was in place for this event then this event could have been stored in the upstream system.



# Chapaton & Martin Disinfection Replacement Project

**Contractor:** Weiss Construction

**Engineering Consultant:** Wade Trim

## **Project Description:**

This project consists of the complete replacement of the disinfection systems at Chapaton and Martin. Macomb County Public Works Office (MCPWO) staff identified that a critical capital improvement need for the Chapaton and Martin RTB's was the replacement of the disinfection systems. These are systems that were installed in approximately 1978 and have exceeded the end of their useful life. MCPWO staff has worked diligently to keep the existing disinfection pumps in service as they are prone to failure and require expensive, difficult to obtain parts. The project involves all disinfection chemical feed pumps, new electrical controls and VFDs, and new disinfection and sample piping within the Chapaton RTB.

## **Significant project tasks that have occurred over the past month:**

1. Miscellaneous punchlist items
2. Coordination regarding final entries into RTB to perform punchlist work
3. Continued compiling and submitting close-out documents (as-builts, O&M manuals, warranties, etc.)

## **Construction Costs:**

	Date (if applicable)	Amount
Original Contract Amount		\$995,925.00
Change Order #1	12/16/20	(\$16,337.83)
Change Order #2	04/28/21	(\$21,333.02)
Revised Contract Amount		\$958,254.15
Total Spent to Date	Pay Apps #1-8	\$846,669.73
Remaining Budget		\$111,584.42

## **Martin Sanitary Diversion Drainage District 2021/22 Budget Summary**

Attached is the proposed 2021/22 Martin budget for the fiscal year beginning October 1, 2021. The budget is scheduled to be adopted at the August 9, 2021 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 that will further improve water quality. The community contribution increase of 9.9% is in line with the projected 10% increase provided to the two communities earlier this year and upon which their own budgets were established.

The budget includes:

1. \$1.55 million (including \$333,000 of carryover funds) for the design and construction administration of the \$5.5 million In-System Storage project. SEMSD has agreed to fund \$1.0 million, with the remaining costs to be funded by grants or SRF debt financing if grants are not received. This office has requested Federal, State and County funds towards this project.
2. Carryover funds of \$795,000 for the construction of the needed flushing system upgrades, \$20,000 for sewer inspection repairs, \$10,970 for needed SCADA system upgrades, and \$9,950 for the design of the basin equipment hatch project.
3. An additional \$15,000 (along with \$15,000 in carry over funding) is budgeted for resurfacing the Station's parking lot.
4. \$15,000 for increased maintenance and repairs due to aging equipment including roofs, gates and actuators.

The budget declined as one time budgeted projects were completed including \$175,000 for the replacement disinfection system, \$32,500 for Total Residual Chlorine (TRC) units, \$25,000 for inspections, and \$20,000 for three security cameras.

Personnel costs declined by \$5,810 due to lower County pension and retiree medical costs, partially offset by the district's share of an additional Construction Engineer to assist in numerous district projects. \$4,120 is budgeted for a portion of this new position's pickup truck.

Lower laboratory supply costs fell by \$4,000 and property insurance costs declined by \$3,600. County Finance Department internal service costs rose by \$2,500, while an additional \$2,220 is needed for Nexgen licenses and \$1,350 for liability insurance.

**MARTIN SANITARY COMMUNITIES  
TOTAL CHARGES  
FY 2021 vs FY 2022**

<b>Total Cost Category</b>	<b>2020/2021 Charge</b>	<b>2021/2022 Charge</b>	<b>Difference</b>	<b>% Change</b>
Martin	920,550	1,011,270	90,720	9.9%
Debt Projected SRF 2022/23	0	0	0	0.0%
<b>TOTAL</b>	920,550	1,011,270	90,720	9.9%

<b>Communities</b>	<b>2020/2021 Charge</b>	<b>2021/2022 Charge</b>	<b>Difference</b>	<b>% Change</b>
Roseville (78.09%)	718,857	789,700	70,844	9.9%
St. Clair Shores (21.91%)	201,693	221,569	19,877	9.9%
<b>TOTAL</b>	920,550	1,011,270	90,720	9.9%



MARTIN SANITARY  
 2021-2022 CHARGES  
 EFFECTIVE OCTOBER 1, 2021

			Roseville	St. Clair Shores	Total
<b>COMMUNITY ASSESSMENTS</b>	<b>Total Annual</b>	<b>Monthly</b>	<b>78.09%</b>	<b>21.91%</b>	<b>100.00%</b>
<b>MARTIN SANITARY</b>	1,011,270	84,272	65,808	18,464	84,272
		Annual Total	789,700	221,569	1,011,270

**MARTIN SANITARY**  
**Operations and Maintenance**  
**Budget to Actual**

Description	Page #	Actual 2019/2020	Actual 4/30/2021	Projected 9/30/2021	Budget 2020/2021	Budget 2021/2022	Budget Change	% Change
<b>EXPENSE</b>								
Application/Permit Fee	4	6,000	6,000	6,000	6,000	6,000	0	0.0%
Dues, Training, Conf, Subs.	5	2,373	0	2,590	2,560	4,830	2,270	88.7%
Engineering	6	81,513	120,614	433,140	1,113,675	2,400,990	1,287,315	115.6%
New Equipment	7	374	21,051	37,030	34,000	5,120	(28,880)	-84.9%
Operating Supplies	8	34,246	9,548	39,420	48,640	44,880	(3,760)	-7.7%
Other Professional Svcs	9	5,656	147	7,900	11,000	8,750	(2,250)	-20.5%
Personnel Services	10	183,718	112,956	193,110	205,200	199,390	(5,804)	-2.8%
Repair & Maintenance	11	72,407	36,581	63,080	28,740	58,800	30,060	104.6%
Contribution to SCADA Reserve	12	5,810	5,810	5,810	5,810	5,810	0	0.0%
Scada System	12	14,411	20,803	29,710	40,450	20,510	(19,940)	-49.3%
Utilities	13	36,745	33,859	41,520	40,150	42,550	2,400	6.0%
Contribution to Capital Reserve		9,500	0	0	0	0	0	0.0%
<b>Total Expenses</b>		<b>452,754</b>	<b>367,370</b>	<b>859,310</b>	<b>1,536,225</b>	<b>2,797,630</b>	<b>1,261,410</b>	<b>82.1%</b>
<b>REVENUE</b>								
Interest Earned		7,272	1,294	2,220	4,500	2,400	(2,100)	-46.7%
Contribution from Community		838,682	920,550	920,550	920,550	1,011,270	90,720	9.9%
SEMSD Funds <sup>1</sup>		0	0	400,000	0	600,000	600,000	100.0%
Use of SCADA Reserves		7,977	1,150	1,150	0	0	0	0.0%
Carry Forward		269,500	0	295,825	611,175	1,183,960	572,790	93.7%
<b>Total Revenue</b>		<b>1,123,431</b>	<b>922,994</b>	<b>1,619,745</b>	<b>1,536,225</b>	<b>2,797,630</b>	<b>1,261,410</b>	<b>82.1%</b>

Reserves: 1,052,995 1,586,570 366,420

**NOTES:**

Design Basin Equipment Hatch	9,950	9,950	0
TRC Equipment-Sampling Pumps	7,500	0	0
As Needed Engineering	18,725	0	0
Flushing System Upgrades-Design, Const, CCA	375,000	795,040	0
Disinfection System Replacement	175,000	0	0
CCTV of Dewatering Line & Influent and Effluent Boxes	25,000	0	0
Misc Sewer Repairs	0	20,000	0
Parking Lot Resurface	0	15,000	0
SolarWinds-Network Management Software	0	1,940	0
Obsolete Wireless Backhaul Replacement Links	0	3,230	0
Fiber Optic improvements	0	3,220	0
Firewall Hardware Design/Config	0	2,580	0
In System Storage - Design	0	333,000	0
In System Storage - CCA <sup>2</sup>	0	42,000	0
SCADA Reserves	9,440	14,090	19,900
Capital Reserves <sup>3</sup>	432,380	346,520	346,520
<b>Total Reserves</b>	<u>1,052,995</u>	<u>1,586,570</u>	<u>366,420</u>

Non Committed Reserve 432,380 346,520 346,520  
 (Excludes life cycle and carryover)

<sup>1</sup>Funds given by SEMSD for In System storage project. Will be refunded if full grant is received.

<sup>2</sup>\$400,000 of SEMSD funds for In System Storage design. These are the remaining funds after design is completed.

<sup>3</sup>Building up reserves for the Martin retention basin, drain vault and chamber structural rehab.

**FY 2021-2022  
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:

	21/22	20/21
<b>DESCRIPTION</b>		
1) Annual NPDES Permit	6,000	6,000
<b>Total</b>	6,000	6,000

INCREASE/DECREASE EXPLANATION:

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

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**FY 2021-2022  
MARTIN SANITARY BUDGET DETAIL SHEET  
EXPENDITURE REQUEST SHEET**

FUND:	0072	P/Y BUDGET:	\$	2,560
ACTIVITY:	Dues, Training, & Conf	REQUEST:	\$	4,830
		INC/(DEC.):	\$	2,270

ACCOUNT EXPLANATION:

	DESCRIPTION	21/22	20/21
	1) Certification, Licenses, Training	600	600
	2) Dues, Membership & Subscription	100	50
wo20041	3) NexGen Renewal	4,130	1,910
	<b>Total</b>	4,830	2,560

INCREASE/DECREASE EXPLANATION:

1,2) Split with SEMCWWDS, Martin and 8.5 Mile.

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1) Operators state certified for RTBs and annual confined space training.

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3) Annual renewal for the asset management software. Cost is split 50% MIDDD the other

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50% is split 10% SEMCWWDS, 15% Martin and 25% 8.5 Mile. Increase is due to

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miscalculation on the 20/21 budget.

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**FY 2021-2022  
MARTIN SANITARY BUDGET DETAIL SHEET  
EXPENDITURE REQUEST SHEET**

FUND: 0072  
ACTIVITY: Engineering

P/Y BUDGET: \$ 1,113,675  
REQUEST: \$ 2,400,990  
INC/(DEC.): \$ 1,287,315

ACCOUNT EXPLANATION:

PROJECT #	DESCRIPTION	21/22	20/21
	1) As Needed Engineering	25,000	0
	2) Flushing System Upgrades-Design, Const, CCA	0	490,000
	3) Misc Sewer Repairs	0	20,000
wo21023-24	4) In-System Storage Design & CCA	1,218,000	0
	<b>Total New Projects</b>	1,243,000	510,000
wo19006	5) As Needed Engineering (old money)	0	18,725
wo21023	6) In-System Storage Design (SEMSD Money)	333,000	0
	7) Flushing System Upgrades-Design, Const, CCA	795,040	375,000
wo19074	8) Disinfection System Replacement	0	175,000
wo20007	9) Inspection of Dewatering Line and Influent and Effluent Boxes	0	25,000
	10) Misc Sewer Repairs	20,000	0
wo19077	11) Design Basin Equipment Hatch	9,950	9,950
	<b>Total Carryover Projects</b>	1,157,990	603,675
	<b>Total All Projects</b>	2,400,990	1,113,675

INCREASE/DECREASE EXPLANATION:

1,5) Item for unexpected engineering projects that may arise during the year. This will be bid out to

assure we receive the best price.

2,7) Flushing System will go to bid for construction in August 2021.

3,10) Design of repairs from any issues found during the 2020 sewer inspection.

4) This collection is for the design & CCA of the Martin In-System Storage project. 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 million for this project. SEMSD will be contributing \$1,000,000 for design/CCA of this project.

6) \$400,000 given by SEMSD for design of In-System Storage. This will be refunded to SEMSD if full grant funds are received. \$358,000 for design, less \$25,000 estimated spending in 2021 equals the \$333,000.

8) Completed by 9-30-2021. The current system reached the end of its useful life. This was for the design and construction of the complete replacement of this system.

9) Completed by 9-30-2021. PACP inspection of the 42" dewatering line and the influent and effluent boxes.

11) Design of Basin equipment hatch project. Construction costs will be funded in future years.

**FY 2021-2022  
MARTIN SANITARY BUDGET DETAIL SHEET  
EXPENDITURE REQUEST SHEET**

FUND: 0072  
ACTIVITY: New Equipment

P/Y BUDGET: \$ 34,000  
REQUEST: \$ 5,120  
INC/(DEC.): \$ (28,880)

ACCOUNT EXPLANATION:

PROJECT #	DESCRIPTION	21/22	20/21
	1) Misc (Lab Equip, Bldg Instrumentation, etc)	1,000	1,500
	2) TRC Equipment	0	25,000
	3) F150 Pickup Truck	4,120	0
	<b>Total New Projects</b>	<b>5,120</b>	<b>26,500</b>
wo19081	4) TRC Equipment	0	7,500
	<b>Total Carryover Projects</b>	<b>0</b>	<b>7,500</b>
	<b>Total All Projects</b>	<b>5,120</b>	<b>34,000</b>

INCREASE/DECREASE EXPLANATION:

1) As needed equipment that may arise.

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2 & 4) Completed.

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3) This vehicle is for the new construction engineer position. This cost is being split among the

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three SE Macomb drain districts (75/15/10)

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**FY 2021-2022  
MARTIN SANITARY BUDGET DETAIL SHEET  
EXPENDITURE REQUEST SHEET**

FUND: 0072  
ACTIVITY: Operating Supplies

P/Y BUDGET: \$ 48,640  
REQUEST: \$ 44,880  
INC/(DEC.): \$ (3,760)

ACCOUNT EXPLANATION:

	DESCRIPTION	21/22	20/21
	1) Sodium Hypochlorite	35,000	35,000
	2) Personal Protective Equipment	300	200
	3) Clothing for operations staff	280	240
	4) Laboratory Supplies required by NPDES permit	7,000	11,000
	5) Equipment Rental	500	500
	6) Office Supplies	100	100
	7) Postage	200	100
	8) Fuel	500	500
	9) Misc	1,000	1,000
	<b>Total</b>	<b>44,880</b>	<b>48,640</b>

INCREASE/DECREASE EXPLANATION:

1 & 4) Fluctuates depending on number of rain events.

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2,3) Split with SEMCWWDS, Martin and 8.5 Mile, total is adjusted for the split.

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

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8) Split with SEMCWWDS, Martin and 8.5 Mile.

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**FY 2021-2022  
MARTIN SANITARY BUDGET DETAIL SHEET  
EXPENDITURE REQUEST SHEET**

FUND:	0072	P/Y BUDGET:	\$ 11,000
ACTIVITY:	Other Professional Services	REQUEST:	\$ 8,750
		INC/(DEC.):	\$ (2,250)

ACCOUNT EXPLANATION:

	21/22	20/21
<b>DESCRIPTION</b>		
1) Contract Laboratory for Permit Overflows	5,000	5,000
2) Property Insurance	2,400	6,000
3) Liability Insurance	1,350	0
<b>Total</b>	<b>8,750</b>	<b>11,000</b>

INCREASE/DECREASE EXPLANATION:

1) Fluctuates depending on number of rain events.

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2) Property insurance is covered under the county policy. It is billed to this district

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by the County. Current budget is based on actuals for past 2 years.

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3) Martin is now being charged for liability insurance due to their level of expenditures.

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Approved at April Board Meeting.

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**FY 2021-2022  
MARTIN SANITARY BUDGET DETAIL SHEET  
EXPENDITURE REQUEST SHEET**

FUND:	0072	P/Y BUDGET:	\$	205,200
ACTIVITY:	Personnel	REQUEST:	\$	199,390
		INC/(DEC.):	\$	(5,810)

ACCOUNT EXPLANATION:

DESCRIPTION	21/22	20/21
1) Pump Station Operators(6 FT operators and 2 PT)	84,830	87,410
2) Operations Manager	17,930	20,930
3) Asst Operations Manager	11,940	17,030
4) Pump Station Standby	1,500	1,700
5) Overtime	10,400	10,400
6) SCADA Manager Support	8,440	8,490
7) SCADA System Specialist (FT)	6,470	3,450
8) Engineering Support	36,570	29,950
9) Senior Asset Mgmt Tech	6,720	9,350
10) Clerical Support	2,480	2,450
11) Accounting	1,460	1,430
12) Administrative	7,310	9,380
13) MIDDD Field Operator Reimbursement	3,340	3,230
<b>Total</b>	<b>199,390</b>	<b>205,200</b>

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%).

1-13) Estimated county pension and retiree medical rates decreased for 2022

1,2,3) Reduction is due to employee turnover

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.

7) Part-time person retired. Made this position full-time due to difficulties in attracting help for part-time positions and is less costly than contracting out at \$85 per hour.

8) Four engineers performing 8.5 Mile duties. Added engineer for 2022.

9) Position to support Nexgen tasks for Wastewater. Cost split with MIDDD, SEMCWWDS, Martin and 8.5 Mile. Prior year budget reflected old position's salary and was budgeted too high.

10,11) 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. 5.25% is charged to 8.5 Mile, the remaining is split between SEMCWWDS, Martin, MIDDD, and General. Expense lowered because 2021 was overstated.

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

**FY 2021-2022  
MARTIN SANITARY BUDGET DETAIL SHEET  
EXPENDITURE REQUEST SHEET**

FUND:	0072	P/Y BUDGET:	\$ 28,740
ACTIVITY:	Repair & Maintenance	REQUEST:	\$ 58,800
		INC/(DEC.):	\$ 30,060

ACCOUNT EXPLANATION:

PROJECT #	DESCRIPTION	21/22	20/21
	1) Annual Repair and Maintenance	28,000	13,000
	2) Lawn Mowing	800	740
	<b>Total Annual Items</b>	28,800	13,740
	3) Parking Lot Resurface	15,000	0
	<b>Total New Items</b>	15,000	0
	4) Parking Lot Resurface	15,000	15,000
	<b>Total Carryover Items</b>	15,000	15,000
	<b>Total All Projects</b>	58,800	28,740

INCREASE/DECREASE EXPLANATION:

- 1) Increase is due to repairs required because of aging equipment (gates, roof, actuators).
- 
- 2) Lawn mowing contracted by third party.
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- 3,4) The parking area within the fence of the facility is in need of resurfacing. We collected \$15,000 the previous fiscal year but we will need this next collection to have the full \$30,000 that is required at this time.
-

**FY 2021-2022  
MARTIN SANITARY BUDGET DETAIL SHEET  
EXPENDITURE REQUEST SHEET**

FUND: 0072  
ACTIVITY: SCADA

P/Y BUDGET: \$ 40,450  
REQUEST: \$ 20,510  
INC/(DEC.): \$ (19,940)

ACCOUNT EXPLANATION:

PROJECT #	DESCRIPTION	21/22	20/21
	1) SCADA as needed	4,840	6,450
	2) SolarWinds-Network Management Software	0	1,940
	3) Wonderware Software Support Renewals	1,290	1,170
	4) Obsolete Wireless Backhaul Replacement Links	0	3,230
	5) VEEAM Support Renewal	180	70
	6) Fiber Optic improvements	0	3,220
	7) Firewall Hardware Design/Config	0	2,580
WO19059	8) Comcast Business Service	1,780	1,770
	9) Cell Modem Service (Sprint) 9 units	0	20
WO20047	10) Security Cameras (3)	0	20,000
	11) Dell Hardware Support Renewals	870	0
	12) Vmware Software Support Renewal	580	0
	<b>Total Annual Projects</b>	9,540	40,450
	13) SolarWinds-Network Management Software	1,940	0
	14) Obsolete Wireless Backhaul Replacement Links	3,230	0
	15) Fiber Optic improvements	3,220	0
	16) Firewall Hardware Design/Config	2,580	0
	<b>Total Carryover Projects</b>	10,970	0
	<b>Grand Total SCADA</b>	20,510	40,450
Reserve	Future costs of Server Upgrade - Life Cycle per year	5,810	5,810

INCREASE/DECREASE EXPLANATION:

2,13) 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.

3,5) Increase reflects higher cost from vendor.

4,14) 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.

6,15) 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.

7,16) 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.

10) Three security cameras installation. Project completed.

11,12) Renewal is due in 2022.

13-16) Due to COVID, projects were delayed as to not affect SCADA during this time.

**FY 2021-2022  
MARTIN SANITARY BUDGET DETAIL SHEET  
EXPENDITURE REQUEST SHEET**

FUND: 0072  
ACTIVITY: Utilities

P/Y BUDGET: \$ 40,150  
REQUEST: \$ 42,550  
INC/(DEC.): \$ 2,400

ACCOUNT EXPLANATION:

DESCRIPTION	21/22	20/21
1) Electric Service	12,000	12,000
2) Consumers Energy	3,000	3,000
3) Water	300	400
4) Weather Radar	500	500
5) Telephone(Cell)	750	750
6) Internal Service Cost	26,000	23,500
<b>Total</b>	<b>42,550</b>	<b>40,150</b>

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 - 7/13/21 - 8/3/21

<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>
<b>Martin Sanitary Diversion Drain</b>	Chapter 20 Roseville - 78.09% St. Clair Shores - 21.91%						
		Astorino	Colville Electric Co., LLC	\$ 10,188.21	Invoice #210308 - 7.9.21	Conduit Run for TRC Units	
		Astorino	Colville Electric Co., LLC	\$ 1,078.25	Invoice #210309 - 7.9.21	Wire Mod Bus Adapter to PLC	
		Astorino	Colville Electric Co., LLC	\$ 1,531.81	Invoice #210312 - 7.9.21	Control Cabinet Relocation	
		Astorino	Colville Electric Co., LLC	\$ 4,255.58	Invoice #210315 - 7.9.21	Conduit for Valves	
		Astorino	Colville Electric Co., LLC	\$ 1,885.50	Invoice #210405 - 6.30.21	TRC Repair and Maintenance	
		Astorino	DTE Energy	\$ 742.60	Invoice #RSFHS-TPQDV - 7.21.21	Monthly Electric - 6.18.21 - 7.19.21	
		Astorino	HESCO	\$ 1,920.35	Invoice #60832 - 3.3.21	HydroRanger Pump Controller	
		Astorino	JCI Jones Chemicals Inc.	\$ 4,355.72	Invoice #859691 - 7.8.21	Hypochlorite Solution - 4,511 Gallons	
		Astorino	TD Painting & Wallcovering	\$ 892.43	Invoice #5195 - 7.7.21	Blower Enclosure Painting	
		Astorino	Weiss Construction	\$ 3,803.40	Invoice #PAY EST #8 - 7.28.21	Chapaton Disinfection Improvements through 7.31.21	\$ 111,584.42
<b>Total</b>			\$ 30,653.85				

YTD Budget

Fund: Martin Sanitary Diversion

As of Fiscal Period: Oct 1, 2020-July 31, 2021(83%)

DESCRIPTION	2021 FINAL BUDGET	ENCUMBERED	ACTUAL	REMAINING BUDGET	PCT UTILIZED
<b>REVENUE ACCOUNTS</b>					
Investment Inc-Interest	4,500		963	3,537	21.4%
Reimb-Local Communities	920,550		920,550	-	100.0%
PY Revenue-Fund Balance	611,175			611,175	0.0%
<b>Total Revenue Accounts</b>	<b>1,536,225</b>	<b>-</b>	<b>921,513</b>	<b>614,712</b>	<b>60.0%</b>
<b>EXPENSE ACCOUNTS</b>					
Application/Permit Fee	6,000			6,000	0.0%
Dues, Training, Conf, Subs.	2,560			2,560	0.0%
<b>Engineering</b>					
-As Needed Engineering	18,725		14,393	4,332	76.9%
-Misc Sewer Repairs	20,000				
- Disinfection System Replacement <sup>(2)</sup>	175,000		198,325	(23,325)	113.3%
-CCTV of Dewatering Line and Influent and Effluent Boxes	25,000		17,288	7,712	69.2%
-Design Flushing System Upgrades & First Flush Capture	865,000		50,802	814,198	5.9%
-Replace Drain Gate Hydraulic Accumulator <sup>(1)</sup>	-		11,036	(11,036)	100.0%
-Design Basin Equipment Hatch	9,950		2,050	7,900	20.6%
New Equipment	34,000		25,761	8,239	75.8%
Operating Supplies	48,640		24,374	24,266	50.1%
Other Professional Svcs	11,000		5,377	5,623	48.9%
Personnel Services	205,200		85,253	119,947	41.5%
Repair & Maintenance	28,740		20,484	8,256	71.3%
Scada System	46,260		32,831	13,429	71.0%
Utilities	40,150		27,925	12,225	69.6%
<b>Total Expense Accounts</b>	<b>1,536,225</b>	<b>-</b>	<b>515,899</b>	<b>1,000,326</b>	<b>33.6%</b>

	O&M Balance 9/30/2020	O&M	Total 7/31/2021
Cash - Operating	1,123,849	405,614	1,529,463
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		921,513	921,513
Expenditures		515,899	515,899
Equity	1,123,849		1,529,463

**Detail of 2020 Equity**

Design Basin Equipment Hatch	9,950
Replace Drain Gate Hydraulic Accumulator <sup>(1)</sup>	33,844
As Needed Engineering	18,725
Design Flushing System Upgrades & First Flush Capture	375,000
CCTV of Dewatering Line & Influent and Effluent Boxes	25,000
Disinfection System Replacement <sup>(2)</sup>	129,501
TRC Equipment	7,500
Pickup Truck	3,900
SCADA Reserves	16,913
Capital Reserves	503,516