

Miller
Santo
VanSyckel

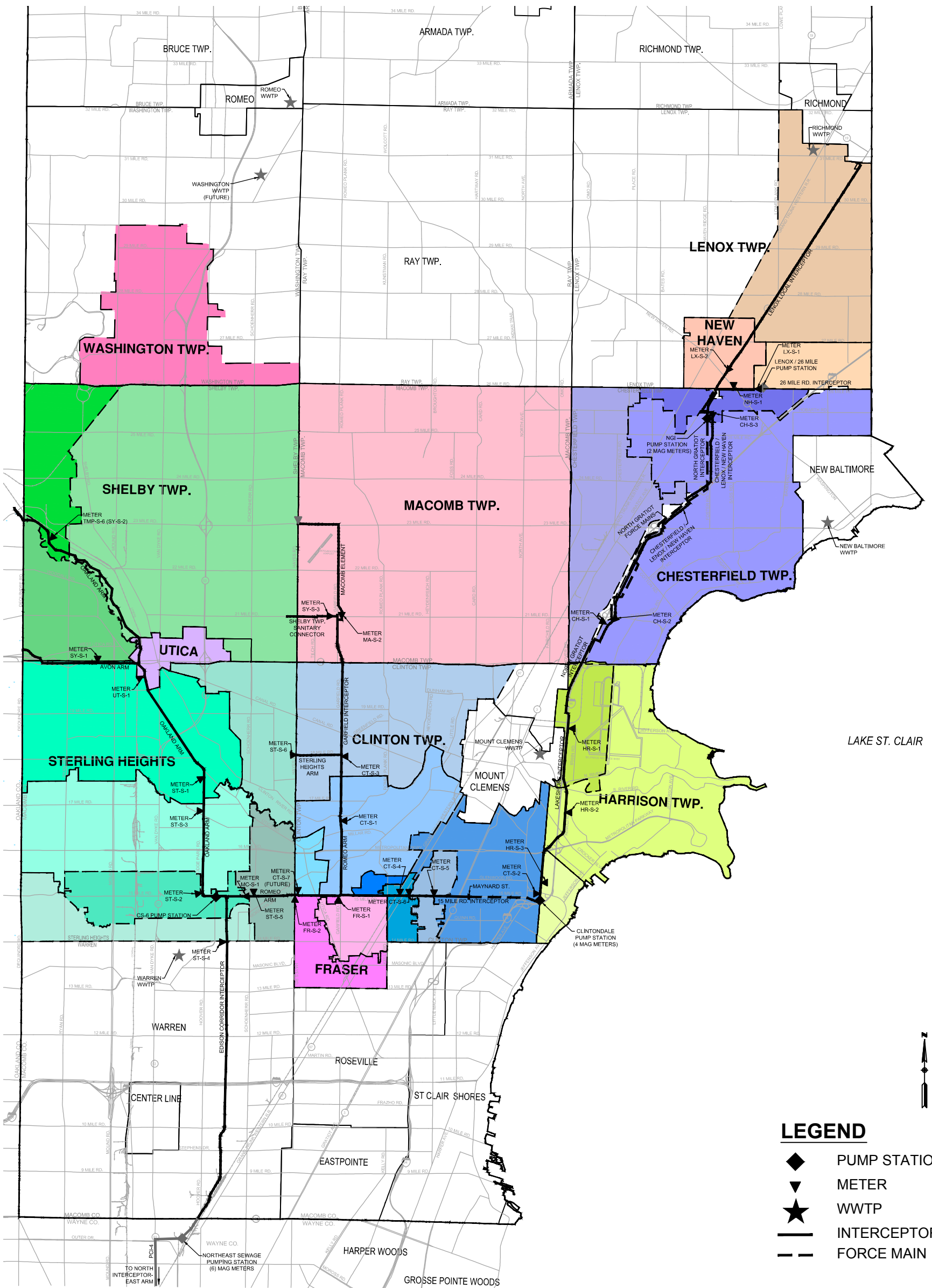
MACOMB INTERCEPTOR DRAIN
INTRA-COUNTY DRAINAGE BOARD
JUNE 12, 2023
11:00 A.M.
AGENDA

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

**Call in Number: 1-224-990-0182
Access Code: 927 405 823**

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for June 12, 2023	
3. Approval of Minutes for May 15, 2023	3
4. Public Participation	
5. Project Updates – Stephen Downing/Vince Astorino	6
6. Consideration for approval of invoices (see attached)	29
7. Financial Report – Bruce Manning	31
8. Adjourn	

MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT



LEGEND

- ◆ PUMP STATION
- ▼ METER
- ★ WWTP
- INTERCEPTOR
- - - FORCE MAIN



Candice S. Miller

MACOMB COUNTY PUBLIC WORKS COMMISSIONER



UPDATED: FEBRUARY 2017

An adjourned meeting of the Intra-County Drainage Board for the **MACOMB INTERCEPTOR DRAIN** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham Clinton Township, Michigan on May 15, 2023, at 10:39 A.M.

PRESENT: Candice S. Miller, Chair
Don VanSyckel, Member

EXCUSED: Bryan Santo, Member

ALSO PRESENT: Daniel Acciavatti, Deputy Government Relations; Vince Astorino, Operations & Flow Manager; Brian Baker, Chief Deputy; Stephen Downing, Construction and Maintenance Manager; Norb Franz, Communications Manager; Bruce Manning, Finance Manager; Pam Sonnenberg, Administrative Assistant; Sarah Lucido, Board of Commissioners

PRESENT VIA TELECONFERENCE: Tom Stockel, Construction Supervisor

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

Adopted: YEAS: 2
NAYS: 0

Minutes of the meeting of April 10, 2023 were presented. A motion was made by Mr. VanSyckel, 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.

Mr. Downing presented on Segment 5. We have received some of the equipment for the cleaning and debris removal. They are continuing with spray lining which is approximately 68% complete. We should be complete by the end of August. He presented a picture of the CS-12 Pump Station and Control Structure. They have performed testing of the pump station. To test the pumps, they filled up the shaft and submerged the pumps so they could test run them. He then presented a picture of the debris removal system. He gave an explanation of how it will work. Ms. Miller asked if this operation will take place in approximately 3 weeks, and Mr. Downing answered yes. He said that they have been playing around and testing it. Mr. VanSyckel asked if the pipe was sufficient to hold the weight of those buckets holding the debris/sediment pumped out of the pipe. Mr. Astorino answered that the pipe is 17 inches thick of concrete and will be able to hold the weight.

Mr. Downing showed pictures of dewatered, post spray lining in the 8 foot section. He stated that they are doing a tremendous job on the spray lining. They have to dewater every day and that the conditions are not ideal.

The Segment 6 CS-13 Control Structure is up and operational. HOBAS repairs will start next week. We are waiting on the permits from the Department of Roads for the continuation of work on the foul air ducts. The project is now scheduled to be completed in September. Ms. Miller asked what our

website states for date of completion and Mr. Downing said that we will need to update it as we have a resident who inquires regularly. The website currently lists late Spring, which will be updated.

Mr. Astorino stated that the Garfield Interceptor Lining project is 100% complete. The seven hundred and fifty five feet is fully grouted. He showed pictures of the workers grouting the lining. He said he has video of one of the inspectors walking all the way through the pipe and it is in perfect condition. He pointed out in one of the pictures a pipe that feeds the Shelby Twp. flow on the North West corner that is in bad shape. We will be going in within the next couple of weeks to get that bypassed so we can get it grouted and cleaned up. They are on schedule and we will hopefully be done by the end of next month.

Mr. Astorino updated on the 2020 Interceptor Inspection Program. The inspections are complete and Fishbeck is working on final reports. They said we will have the final reports at the end of this month. We are working on the 2023 inspection now. We just met with Taplin on that project and they are projected to start in July.

Mr. Downing stated that he has nothing to report on Phase II Grouting. All of the critical work has been addressed.

Mr. Downing presented photos on the Odor and Corrosion facilities project. L. D'Agostini built the equipment building this past month at the NGI location. We are in line to still be done by the end of June. Mr. VanSyckel asked what is happening now with odors at the Fraser Biofilter location in between the demolition of the old facility and the construction of the new facility. Mr. Downing said the fans are off and we have not received an uptick in complaints other than at the manhole in front of Steve Lowen's house. Oscar Renda is working to alleviate that.

A motion was made by Mr. VanSyckel, supported by Ms. Miller to receive and file the project updates.

Adopted: YEAS: 2
NAYS: 0

The Chair presented the invoices totaling \$6,017,098.47 to the board for review and approval.

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

Adopted: YEAS:
NAYS: 0

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

Adopted: YEAS: 2
NAYS: 0

There being no further business, it was moved by Mr. VanSyckel, supported by Ms. Miller, that the meeting of the Macomb Interceptor Drain Board be adjourned.

Adopted: YEAS: 2
NAYS: 0

The meeting was adjourned at 11:10 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 May 15, 2023 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: 5/15/23



Candice S. Miller

Public Works Commissioner
Macomb County

To: Macomb Interceptor Drain Drainage District Board Members

CC: File

From: Stephen Downing, Construction & Maintenance Manager
Vincent Astorino, Operations & Flow Manager

Date: June 12, 2023

Subject: Construction Projects Status Updates for June 2023 Board Meeting

The following provides a status update for construction work performed within the Macomb Interceptor Drain Drainage District for the previous month.

Segment 5 Rehabilitation

Contractor: Oscar Renda

Engineering Consultant: FK Engineering

Project Description:

The Segment 5 reach of the Romeo Arm Interceptor is approximately 8,300 linear feet; it runs along 15 Mile Road starting at the ITC Corridor and extends east to approximately Hayes Road. The first 7,000 linear feet is 11-foot diameter non-reinforced concrete pipe, and the next 1,300 linear feet is 8-foot diameter steel reinforced concrete pipe. The rehabilitation consists of debris removal, cleaning, and inspection of the pipe's invert. Next, HOBAS pipe will be used to slip line 7,000 linear feet of the 11-foot diameter sewer and the 1,300 linear feet section of 8-foot diameter pipe will be coated with a corrosion resistant geo-polymer spray applied coating. To facilitate this work, a new control structure and access shaft is under construction in the ITC Corridor. The new control structure will provide the contractor access to the sewer to facilitate the work and will also serve as a dewatering pump station to draw down the upstream water level in the sewer.

Significant project tasks that have occurred over the past month:

1. Continued development, review, and approval of the required construction submittals.
2. Ground dewatering well maintenance and monitoring.
3. Continued spray-lining the 8-foot diameter interceptor (PCI-37) – 1300 Linear feet total
 - Approximately 1300 linear feet is completed (5 to 7 o'clock)
 - Approximately 850 linear feet is completed (entire circumference of pipe)

- Approximately 80% completed
- 4. CS-12 Pump Station and Control structure progress, which includes:
 - Performed initial startup and testing of the pumps
 - Continued installation of the guide rails for the stoplogs
 - Completed demolition of the temporary flume and bulkheads
 - Started installation of the drop pipes

Construction Costs:

	Date	
Original Contract Amount	10/21/2020	\$28,807,500.00
Current Contract Amount	5/31/2023	\$32,052,534.88
Total Spent to Date	5/31/2023	\$16,500,748.56
Remaining Budget	5/31/2023	\$15,551,786.32

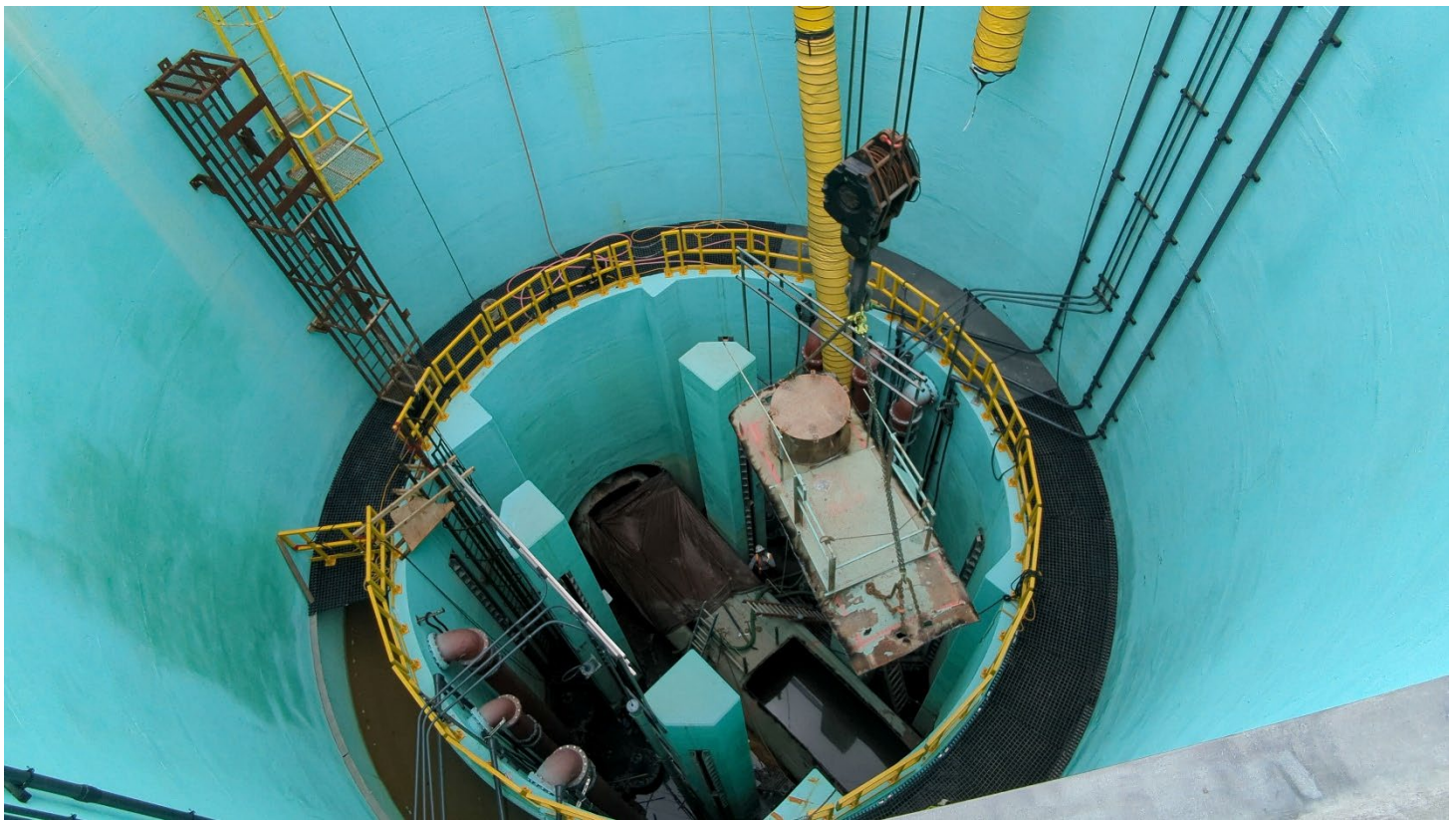


Figure 1 – CS-12 Temporary Flume Removal



Figure 2 – Spray-Lined Section of 8-foot Pipe



Figure 3 – Temp Pump to Dewater for Flume Removal



Figure 4 – Temp Pump for Dewatering to Remove Flume



Figure 5 – Temporary Flume Removal

Segment 6 Rehabilitation

Contractor: Ric-Man Construction

Engineering Consultant: FK Engineering

Project Description:

The Segment 6 Rehab project includes the rehabilitation of these main elements:

1. Cleaning and slip-lining (Hobas) of the 5-foot diameter 15 Mile Interceptor from MH-01 at Garfield Road and 15 Mile to MH-04 approximately 2200 feet east along 15 Mile.
2. Cleaning and slip-lining (Hobas) the 1400 linear feet 11-foot diameter Romeo Arm Interceptor sewer between CS-3 on 15 Mile Road and CS-2 on Garfield north of 15 Mile Road.
3. Rehabilitation of the Meter Facility FR-S-1 on Garfield south of 15 Mile Road.
4. Rehabilitation and spray-lining of the CS-2 and CS-3 control structure facilities. These concrete structures have been damaged by H2S damage over time and need repair.
5. Installation of an air-jumper to be incorporated into the existing Biofilter facility. This is being done to address the high level of odor issues that have resulted over the years from the intersection of 15 Mile and Garfield.
6. Installation of a new gate control structure on the 15 Mile Interceptor. This will allow for the rehabilitation of the MH-01 structure and provide future storage options within that interceptor.

The project started in September 2021 and is scheduled to be completed in September 2023.

Significant project tasks that have occurred over the past month:

1. The Contractor continues to develop and submit the required submittals to the Engineer & Owner for review.
2. Completed flow control testing for the cleaning and HOBAS lining work between CS-2 and CS-3.
3. Continued preparing CS-2 for access to clean and slip-line between CS-2 and CS-3.
4. Excavated the bore pit for the FAD line beneath 15 Mile Road.
5. Started debris/sediment removal between CS-2 and CS-3
6. Completed backfill of the lining shaft

Construction Costs:

	Date (if applicable)	
Original Contract Amount	5/1/2021	\$13,541,545.00
Change Order No. 1	8/1/2021	\$132,664.70
Total Contract Amount	5/31/2023	\$13,674,209.70
Total Spent to Date	5/31/2023	\$8,773,735.88
Remaining Budget	5/31/2023	\$4,900,473.82



Figure 6 – Lowering Pump into CS-2 for Dewatering



Figure 7 – Setting Final Section of 54-inch HOBAS



Figure 8 – Constructing Manhole at Lining Shaft

Garfield Interceptor Lining Project

Contractor: SAK Construction, LLC

Engineering Consultant: AEW

Project Description: MCPWO identified 755 feet of 7-foot diameter pipe within the Garfield Interceptor that has been aggressively attacked with Hydrogen Sulfide damage. This stretch of pipe was immediately labeled as an immediate repair and MCPWO underwent an analysis of options for repairs. The selected option was a Spiral Wound PVC liner which has been installed around the world but is the first time being installed within Michigan. This product has a guaranteed useful life of 50-years and is being treated as a pilot project within the MID system.

Significant project tasks that have occurred over the past month:

- Spiral Wound lining has been fully completed.
- MA-S-2 (West Side) pipe lining has been completed. Epoxy lining in manholes and chambers to be completed by the second week of June.
- SY-S-3 (East Side) lining operations have begun and should be completed by the first week of June. Epoxy lining in manholes will be completed by the second week of June.
- Restoration work will begin soon.

Construction Costs:

	Date (if applicable)	
Original Contract Amount	8/25/2022	\$2,394,385.00
Change Order No. 1	3/14/23	\$510,160.00
Total Contract Amount	3/14/23	\$2,904,545.00
Total Spent to Date	5/29/23	\$2,516,226.88
Remaining Budget	5/29/23	\$388,318.12



Figure 9 – MA-S-2 (East Side) Sediment Removal



Figure 10 – MA-S-2 (East Side) After Pipe Lining



Figure 11 – SY-S-3 West Side) After Pipe Lining

Interceptor Inspection Program

Contractor: Doetsch Environmental Services, Inc.

Engineering Consultant: Fishbeck

Project Description:

The 2020 sewer inspection program was awarded to Doetsch Environmental Services in November 2020. The inspection program includes inspection of approximately 26 miles of sanitary sewer, 360 manholes and other aspects of the sanitary sewage infrastructure across multiple drainage districts, including the MIDDD.

The MIDDD portion of the inspection program includes 101,335 linear feet (19.25 miles) of pipe ranging in diameter from 24" to 132" and 145 manhole structures. Additionally, inspection of 8 junction chambers and 8 Drop Shaft/Connecting sewers will be performed.

The inspection interval for the entire system is based on a 3-year cycle, where non-reinforced concrete pipe is inspected every 3 years and reinforced concrete pipe is inspected every 6 years. The 2020 inspection program is the largest ever performed by the Macomb County Public Works Office.

Significant project tasks that have occurred over the past month:

1. The Consultant has provided final reports which are under review by MCPWO staff.
2. Working through the final pay app with Doetsch.

Construction Costs:

	Date (if applicable)	
Original Contract Amount	1/19/2021	\$280,034.00
Total Spent to Date	9/30/2022	\$184,971.35
Remaining Budget	9/30/2022	\$95,062.65

***This Table reflects the MIDDD costs only.**

Phase II Grouting

Contractor: Doetsch Environmental Services, Inc.

Engineering Consultant: AEW

Project Description:

The Phase II Grouting project was awarded to Doetsch Environmental during summer 2020. The work includes chemical grouting of the sewer and manholes where infiltration is present. The work is planned in all reaches of the system not included in the Segment 5 or portion of the Romeo Arm rehabilitated during the 2016 Interceptor Collapse. The main areas of work include the Romeo Arm along Garfield Road between 15 Mile and Clinton River Roads, the Garfield Interceptor between Clinton River and 21 Mile Roads, and the Lakeshore Interceptor between the Clintondale Pump Station at 15 Mile and Union Lake and Joy Boulevard in Harrison Township. The chemical grouting is aimed to stop all active infiltration within the system in advance of future rehabilitation and maintenance projects.

Significant project tasks that have occurred over the past month:

1. The crew has not worked since late July 2022.
2. The critical area grouting is complete, grouting operations will resume in non-critical areas when daily flow control operations allow.

Construction Costs:

	Date	
Original Contract Amount	6/24/2020	\$3,000,000.00
Change Order No. 1	3/14/2022	\$3,000,000.00
Current Contract Amount	5/31/2023	\$6,000,000.00
Total Spent to Date	5/31/2023	\$4,432,736.20
Remaining Budget	5/31/2023	\$1,567,263.80

Odor & Corrosion Control Facilities

Contractor: L. D'Agostini & Sons

Engineering Consultant: Tetra Tech

Project Description:

The Macomb Interceptor Drain completed a system-wide odor and corrosion study to evaluate the need for additional odor and corrosion control facilities to mitigate corrosion induced degradation of the interceptor and nuisance odors emitting from the interceptor near homes, businesses and public spaces. This effort is concentrated on extending the useful life of the interceptor and reducing nuisance odors emitting from the interceptor.

The study identified the need to construct three new odor and corrosion control facilities. Additionally, it was determined that the existing open-bed woodchip media type Fraser Bio-Filter would be more efficient and effective if converted to an enclosed bio-filter with an engineered media. The locations of the new facilities were determined through analysis and computer modeling using data that was collected in the field during the study phase. The facilities are intended to complement one another to reduce hydrogen sulfide induced corrosion.

The facilities are summarized in the Table below:

Facility	Location	Filter Type	Media Type
Fraser	15 Mile & Garfield	Bio-Filter	Engineered
Macomb Township	21 Mile & Garfield	Bio-Filter	Engineered
Clintondale Pump Station	Union Lake & Sorrentino	Carbon Filter	Carbon
NGI Pump Station	Gratiot & Concordia	Chemical Injection	Calcium Nitrate

The construction contract was awarded to L. D'Agostini & Sons in October of 2022 and the contractual Notice to Proceed was issued with an effective date of December 2, 2022. The number of days to achieve substantial completion is 630 days, resulting in a contractually required substantial completion date of August 23, 2024.

The construction work commenced in January of 2023 and is estimated to be completed by the summer of 2024. The estimated schedule for each site is summarized in the table below:

Facility	Location	Start Date	Finish Date
Fraser	15 Mile & Garfield	March – 2023	January – 2024
Macomb Township	21 Mile & Garfield	April – 2023	April – 2024
Clintondale Pump Station	Union Lake & Sorrentino	September – 2023	May – 2024
NGI Pump Station	Gratiot & Concordia	January – 2023	October – 2023

*The dates are based on the Construction schedule dated February 7, 2023

Significant project tasks that have occurred over the past month:

1. The Contractor is developing and submitting the required submittals to the Engineer & Owner for review.
2. The Contractor is working on obtaining the required permits from various agencies.
3. NGI PS Site:
 - a. Building roofing completed
4. Clintondale PS Site:
 - a. The equipment pad was completed
5. 21 Mile & Garfield Site
 - a. Completed the jack and bore for the FAD tap at the Interceptor
 - b. Backfilled the jack and bore Interceptor tap pit
6. Fraser Site
 - a. Started drilling for foundations
 - b. Encountered ground water – developed and constructed a ground dewatering system

Construction Costs:

	Date	
Original Contract Amount	12/2/2022	\$11,799,678.78
Current Contract Amount	5/31/2023	\$11,799,678.78
Total Spent to Date	5/31/2023	\$1,269,382.98
Remaining Budget	5/31/2023	\$10,530,295.80



Figure 12 – NGI PS Odor & Corrosion Equipment Building



Figure 13 – CPS Equipment Pad



Figure 14 – 21 & Garfield – Jack & Bore for FAD

OFFICE LOCATION: 21777 Dunham Road, Clinton Township, Michigan 48036 • Phone: 586-469-5325 • Fax: 586-469-5933
ENGINEERING • Phone: 586-469-5910 • Fax: 586-469-7693 ♦ **SOIL EROSION** • Phone: 586-469-5327 • Fax 586-307-8264



Figure 15 – Setting up rails for Jack & Bore Equipment



Figure 16 – Fraser Bio-Filter Foundation Drilling

MACOMB INTERCEPTOR DRAINAGE DISTRICT
05/16/2023 - 06/06/2023

<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>
Macomb Interceptor Drain	Chapter 20 Chesterfield – 7.4212% Clinton – 21.2122% Fraser – 4.1667% Harrison – 6.3461% Lenox – 1.1179% Macomb – 14.0617% New Haven – 0.8255% Shelby – 9.7911% Sterling Heights – 30.6812% Utica – 1.6170% Washington – 2.7596%						
		Astorino	Anderson, Eckstein & Westrick	\$ 32,659.30	Invoice #144276 - 06.01.23	Garfield Interceptor Pilot Program - 04.10.23 - 05.07.23	\$ 21,546.90
		Astorino	Aquasight	\$ 69,789.00	Invoice #000769 - 05.04.23	Covid-19 Monitoring - Grant	\$ 212,370.00
		Astorino	Aquasight	\$ 69,789.00	Invoice #000776 - 06.01.23	Covid-19 Monitoring - Grant	\$ 142,581.00
		Astorino	City of Mt. Clemens	\$ 16,941.24	Invoice #28005427 - 05.01.23	Monthly Utilities - March 2023	
		Astorino	County of Macomb	\$ 468,112.23	Invoice #AR230541 - 05.08.23	4th Quarter Personnel and Operating Expenses	
		Astorino	County of Macomb	\$ 434,210.76	Invoice #AR230542 - 05.08.23	1st Quarter Personnel and Operating Expenses	
		Astorino	Department of Roads	\$ 1,257.58	Invoice #302397 - 02.28.23	Fleet Fuel - February 2023	
		Astorino	Department of Roads	\$ 1,297.27	Invoice #302445 - 05.12.23	Fleet Fuel - April 2023	
		Downing	Detection Instruments Corp	\$ 4,008.05	Invoice #4542-55063 - 05.19.23	2 - Odor Loggers	
		Astorino	Fishbeck	\$ 525.00	Invoice #423338 - 05.17.23	As-Needed Services through 05.12.23	\$ 69,820.00
		Astorino	Fishbeck	\$ 2,360.96	Invoice #423344 - 05.17.23	GLWA Engineering Assistance through 05.12.23	
		Downing	FK Engineering Associates	\$ 85,101.15	Invoice #20-058-035 - 05.09.23	Segment 6 CCA - 04.02.23 - 05.06.23	\$ 253,654.71
		Downing	FK Engineering Associates	\$ 114,601.85	Invoice #20-152-029 - 05.09.23	Segment 5 CCA - 04.02.23 - 05.06.23	\$ (316,702.27)
		Astorino	FK Engineering Associates	\$ 5,544.50	Invoice #22-126-006 - 05.09.23	Critical Areas Inspection Program	\$ 36,584.97
		Astorino	Jack Doehny Companies Inc.	\$ 550.79	Invoice #186114 - 02.08.23	Confined Space Equipment Certification	
		Astorino	KHVPF	\$ 730.00	Invoice #49495 - 04.01.23	Contract Review	
		Downing	L D'Agostini & Sons, Inc.	\$ 425,803.62	Invoice #WWS-2022-001 App 3 - 05.31.23	Odor & Corrosion Improvements	\$ 10,530,295.80
		Astorino	Macomb County Treasurer	\$ 2,488.30	Invoice #23-299 - 05.17.23	AutoCAD Software	
		Astorino	Macomb County Treasurer	\$ 24,000.00	Invoice #1-2023 MID-GF - 03.31.23	Accounting Services	
		Downing	Meadowbrook Insurance	\$ 50,440.00	Invoice #11750 - 05.19.23	OCIP Construction Safety Consultant (2 of 4)	
		Astorino	METCO Consulting Services	\$ 10,544.25	Invoice #2206A-05 - 06.01.23	Flow Control Assistance	\$ 60,356.62
		Astorino	METCO Consulting Services	\$ 4,178.93	Invoice #2206B-05 - 05.01.23	CPS Electrical Room AC Upgrades Project	\$ 56,177.69
		Astorino	NTH Consultants, Ltd	\$ 672.00	Invoice #632723 - 05.05.23	2023 Interceptor Inspection Program - Design	\$ 59,487.00
		Astorino	People Driven Technology	\$ 10,278.41	Invoice #INV5136 - 05.18.23	SCADA Maintenance	
		Downing	Ric-Man Construction	\$ 768,200.74	Invoice #WO23003 EST 21 - 06.01.23	Segment 6 Services - 04.21.23 - 05.220.23	\$ 4,900,473.82
		Astorino	SAK Construction	\$ 1,862,409.19	Invoice #WWS-2022-006 APP 3 - 05.29.23	Garfield Interceptor Lining Project through 03.28.23	\$ 639,940.81
		Downing	Tetra Tech, Inc.	\$ 28,607.64	Invoice #52064949 - 05.08.23	Odor & Corrosion CCA through 04.28.23	\$ 853,382.58
		Astorino	Verizon	\$ 1,369.19	Invoice #9933250587 - 04.23.23	Monthly Cellular - 03.24.23 - 04.23.23 (Eq. Fund)	
		Astorino	Verizon	\$ 1,786.27	Invoice #9933250587 - 04.23.23	Monthly Cellular - 03.24.23 - 04.23.23	

MACOMB INTERCEPTOR DRAINAGE DISTRICT
05/16/2023 - 06/06/2023

<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>
<u>CPS</u>		Astorino	Bell Fork Lift, Inc.	\$ 1,426.00	Invoice #S0045882 - 05.02.23	Battery Repair - Forklift	
		Astorino	Cintas Fire 636525	\$ 1,186.95	Invoice #0D26625943 - 05.24.23	Inspections/Fire Alarm Tests	
		Astorino	Cintas Fire 636525	\$ 847.75	Invoice #0D26627036 - 05.24.23	Inspections/Fire Extinguisher, Emergency Exits	
		Astorino	Clinton Township Treasurer	\$ 2,456.62	Invoice #23-272 - 05.02.23	Monthly Water - April 2023	
		Astorino	Crane 1 Services, Inc.	\$ 544.00	Invoice #122-13626	Crane Inspection	
		Astorino	Cummins Sales & Service	\$ 1,463.53	Invoice #S6-8194 - 05.31.23	Load Bank Test	
		Astorino	Cummins Sales & Service	\$ 3,519.28	Invoice #S6-8197 - 05.31.23	Preventative Maintenance	
		Astorino	Cummins Sales & Service	\$ 4,076.12	Invoice #S6-95406 - 09.07.22	Generator Service and Inspection	
		Astorino	DTE Energy	\$ 20,821.96	Invoice #23-279 - 05.03.23	Monthly Electric - 04.04.23 - 05.01.23	
		Astorino	Great Lakes Pest Control	\$ 525.00	Invoice #72668 - 05.15.23	Exterior Spray	
	Astorino	HESCO	\$ 8,400.00	Invoice #App 2	Meter Maintenance - 04.01.23 - 04.30.23	\$ 447,500.00	
<u>METERS</u>		Astorino	Motor City Electric Technologies	\$ 4,159.06	Invoice #95159 - 05.11.23	Billing Meter - SCADA Maintenance	
<u>NGI</u>		Astorino	Cummins Sales & Service	\$ 1,988.97	Invoice #S6-6954 - 05.05.23	Electrical Maintenance	
		Astorino	DTE Energy	\$ 1,738.87	Invoice #23-275 - 05.02.23	Monthly Electric - 03.31.23 - 05.01.23	
		Astorino	Fishbeck	\$ 6,200.00	Invoice #423342 - 05.17.23	Inspection Program through 05.12.23	\$ 35,260.63
<u>OMID</u>		Astorino	People Driven Technology	\$ 1,673.23	Invoice #INV5136 - 05.18.23	SCADA Maintenance	
Total				\$ 4,559,284.56			

Budget to Actual
MIDDD
As of May 31, 2023 = 92%

DESCRIPTION	2023 FINAL BUDGET	ENCUMBERED	ACTUAL	REMAINING BUDGET	PCT UTILIZED
REVENUE ACCOUNTS					
GLWA-OMID	48,014,249		44,016,779	3,997,470	91.7%
OMID O&M	4,358,913		3,995,670	363,243	91.7%
Settlement	100,000			100,000	0.0%
Reimbursements	225,000		518,047	(293,047)	230.2%
PY Revenue-Fund Balance	16,738,220			16,738,220	0.0%
Reimb-Local Communities	17,159,080		15,729,157	1,429,923	91.7%
State Grant-ARPA Seg 5 & 6	-		19,527,713	-	100.0%
COVID Grant	-		1,163,911	-	100.0%
Interest	50,000		486,330	(436,330)	972.7%
Total Revenue Accounts	86,645,462	-	85,437,607	21,899,480	98.6%
EXPENSE ACCOUNTS					
GLWA-OMID	48,014,249		44,016,779	3,997,470	91.7%
OMID O&M	4,358,913		3,995,670	363,243	91.7%
Public Works Wastewater Disposal Division	1,889,760		1,675,355	214,405	88.7%
Office Operations/Insurance	343,100		67,563	275,537	19.7%
SCADA	461,990		170,503	291,487	36.9%
Engineering					
Replenish reserve from CPS refunding	618,680			618,680	0.0%
Drop shaft rehab Design	1,600,000		177,965	1,422,035	11.1%
METCO As Needed	75,000		69,759	5,241	93.0%
Data Review-Aquasight	58,000		18,000	40,000	31.0%
Annual Meter Dye Testing	50,000		35,650	14,350	71.3%
As Needed Engineering	250,000		61,681	188,319	24.7%
Odor and Corrosion Construction/CCA	3,280,000		963,505	2,316,495	29.4%
GLWA Assistance	30,000		10,485	19,515	35.0%
General Construction/Engineering Contingency-All Projects	450,000			450,000	0.0%
Garfield Interceptor Lining Pilot	-		359,320	(359,320)	100.0%
As Needed Applied Science	25,000		26,181	(1,181)	104.7%
As Needed Metco	60,000		26,140	33,860	43.6%
Level Sensors/Pressure/H2S-Meters	214,200			214,200	0.0%
Odor and Control-Construction	7,010,000		557,213	6,452,787	7.9%
Segment 6 Construction Administration	685,530		1,126,866	(441,336)	164.4%
Segment 6 Construction/CCA from reserve	-		4,593,000	(4,593,000)	100.0%
Wastewater Master Plan from reserve	-		59,000	(59,000)	100.0%
SY-S-1, SY-S-2, & WA-S-1 Meter Const Admin/Rehab	927,790		17,090	910,700	1.8%
Segment 5 Construction Admin	972,500		1,051,883	(79,383)	108.2%
COVID Grant	-		1,163,911	(1,163,911)	100.0%
Segment 5 Construction from reserve	611,240		2,996,978	(2,385,738)	490.3%
Legal Services	75,000		13,554	61,446	18.1%
Clintondale PS O&M	870,000		473,003	396,997	54.4%
NGI O&M	307,500		114,710	192,790	37.3%
Meters O&M	228,400		117,499	110,901	51.4%
Control Structures and Pump Station O&M	281,370		91,428	189,942	32.5%
Biofilter O&M	25,500		8,777	16,723	34.4%
Contribution Life Cycle Reserve	184,300			184,300	0.0%
Interceptor O&M	9,898,300		581,939	9,316,361	5.9%
Stormwater Pump Stations	131,000		120,083	10,917	91.7%
Sewage Disposal Charges - Mt. Clemens	200,000		164,786	35,214	82.4%
Debt Service - Revenue Bonds	2,458,140		2,253,295	204,845	91.7%
Total Expense Accounts	86,645,462	-	67,179,571	19,465,891	77.5%

	O&M Balance 6/30/2022	O&M	Total 5/31/2023
Cash - Operating	34,922,137	18,258,035	53,180,173
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		85,437,607	85,437,607
Expenditures		67,179,571	67,179,571
			0
Equity*	34,922,137		53,180,173

Detail of 2022 Equity*

Reserve at 6/30/2022	10,665,604
Construction/ Engineering Reserve	23,088,928
Life Cycle Reserve	1,167,605