

**NOTICE OF MEETINGS**  
**DRAINAGE BOARD FOR THE FOLLOWING DRAINS:**

1. Drainage District Policy
2. Acacia Park CSO Drain
3. Birmingham CSO Drain
4. Bloomfield Village CSO Drain
5. George W. Kuhn Drain
6. Evergreen- Farmington Sanitary Drain
7. Clinton River Water Resource Recovery Facility
8. City of Pontiac Wastewater Treatment Facility
9. Devonshire Drain
10. Hayward Drain
11. Murphy Drain
12. Ballard Drain
13. Osgood Drain
14. Dennis Murphy Drain
15. Lueders Drain
16. Augusta Drain
17. Caddell Drain
18. Minnow Pond Drain
19. Northwest Oakland Sanitary Sewer Drain
20. Wilmont Drain

NOTICE IS HEREBY GIVEN THAT MEETINGS OF THE DRAINAGE BOARD FOR THE ABOVE-MENTIONED DRAINS WILL COMMENCE IN THE OAKLAND COUNTY PUBLIC WORKS BUILDING, ONE PUBLIC WORKS DRIVE, WATERFORD, MICHIGAN, AND VIA **MICROSOFT TEAMS** AT 2:00 P.M., ON **TUESDAY, MARCH 28, 2023**, TO CONDUCT NECESSARY AND APPROPRIATE BUSINESS OF THE DRAIN BOARDS. THOSE THAT WISH TO PARTICIPATE REMOTELY MAY FOLLOW THE INSTRUCTIONS ATTACHED TO THIS NOTICE. ALL BOARD MEMBERS WILL BE PARTICIPATING IN-PERSON.

DURING THE MEETING, THERE WILL BE AN AGENDA ITEM FOR PUBLIC COMMENT, DURING WHICH THE PUBLIC MAY PROVIDE INPUT OR ASK QUESTIONS OF THE BOARD. IN THE EVENT A MEMBER OF THE PUBLIC WOULD LIKE TO SUBMIT THEIR INPUT OR QUESTIONS TO BE READ AT THE MEETING BY THE BOARD CHAIRPERSON, PLEASE PROVIDE THE INPUT OR QUESTIONS IN WRITING TO STEPHANIE LAJDZIAK AT [LAJDZIAKS@OAKGOV.COM](mailto:LAJDZIAKS@OAKGOV.COM). PERSONS WITH DISABILITIES THAT NEED ASSISTANCE PARTICIPATING IN THE MEETING SHOULD CONTACT STEPHANIE LAJDZIAK AT [LAJDZIAKS@OAKGOV.COM](mailto:LAJDZIAKS@OAKGOV.COM).

JIM NASH  
Oakland County Water Resources Commissioner  
Telephone: 248-858-0958

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# Microsoft Teams meeting

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## **1. Drainage District Policy**

## **AGENDA**

### **DRAINAGE BOARD FOR POLICY MATTERS**

March 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of January 24, 2023
3. Public Comments
4. 2022 Drain Annual Report
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR POLICY MATTERS**

January 24, 2023

A meeting of the Drainage Board for Policy Matters was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 24<sup>th</sup> of January 2023.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

David Woodward, Chairperson of the Oakland County Board of Commissioners

ABSENT: Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

Minutes of the meeting held November 15, 2022, were presented for consideration. It was moved by Woodward, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 2  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

Sal Saputo (Meadowbrook Insurance Group) provided an update regarding property insurance options for the Drainage Districts; it was recommended that the Board renew insurance coverage with Chubb. Discussion ensued regarding policy and carrier options. It was moved by Woodward, supported by Nash, to approve the proposal as authored and for the Secretary to sign and approve the invoices for payment.

ADOPTED: Yeas - 2  
Nays - 0

It was moved by Nash, supported by Woodward, to certify attendance and authorize pro rata payment of \$25 per day to Mr. Woodward.

ADOPTED: Yeas - 2  
Nays - 0

There being no further business, the meeting was adjourned.



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Jim Nash, Chairperson

STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for Policy Matters, Oakland County, Michigan, held on the 24<sup>th</sup> day of January 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for Policy Matters.



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Jim Nash, Chairperson

Dated: January 24, 2023

FY 2022



**WRC**

**WATER RESOURCES COMMISSIONER**

*Jim Nash*

# **Drain Annual Report**

# Message from Commissioner Jim Nash

As required by Section 31 of the Michigan Drain Code, Public Act 40 of 1956, as amended by Public Act 104 of 1978, and as authorized by the Board of Commissioners' Miscellaneous Resolution No. 8603 adopted September 21, 1978, I hereby present the Annual Report for the Water Resources Commissioner's office for review and filing. This complete financial report covers the fiscal year period from October 1, 2021 through September 30, 2022.



## **One issue highlighted in the report involves water affordability.**

I am keenly aware that water affordability is not just a problem of the poor. It impacts all of us. The interconnectivity of our drinking water and sanitary systems binds us together. In short, the lack of access to affordable water for one is a great cause of concern for all. Juxtaposed against that concern is our responsibility to ensure that rates are sufficient to provide this critical service.

Safe drinking water and reliable sewer services are essential to protect public health. Enabling continued water service for qualifying customers who need assistance is the key to improved public health equity. That's why it remains my top priority.

I invite you to review the successes and challenges contained in the annual report while I extend my sincere thanks and appreciation to the Board for its continued excellence and unfailing assistance given to my office and staff throughout the year.

**Jim Nash**  
Water Resources Commissioner

A handwritten signature in blue ink that reads "Jim Nash". The signature is fluid and cursive, matching the printed name above it.



# Introduction

## System Details

The Oakland County Water Resources Commissioner's Office (WRC) has the responsibility of planning, developing and maintaining designated surface water drainage systems in Oakland County. These activities are authorized by state law, commonly known as the Michigan Drain Code. In addition, as agent of the County, Jim Nash, the Water Resources Commissioner, operates and maintains several county water and sewer disposal systems and operates and maintains water and sewer systems for several communities within Oakland County through intermunicipal agreements.

This report provides a comprehensive overview of budgetary and maintenance efforts along with operational activities and capital improvement projects undertaken during FY 2022. These activities are reflective of the organization's dedication to the long-term sustainability of the utilities managed by the WRC while improving the level of service for the Oakland County residents served.

The WRC's maintenance and operations efforts, as well as overseeing planning, designing, and constructing water, sewer and drain improvement projects, combine to achieve the following outcomes:

- Protect public health and safety
- Preserve natural resources and a healthy environment
- Maintain reliable high-quality service
- Contribute to economic prosperity
- Ensure value for investment



The Commissioner's dedication to these outcomes in FY 2022 is demonstrated by the innovative work in searching for a solution to water affordability, undertaking operations for new systems, pursuing funding opportunities, adopting innovative industry-leading practices, and collaborating regionally to ensure value for water infrastructure investment. Several projects highlighted in this report show how innovation optimizes the balance among these five desired outcomes.

**22** **Local Water Systems**

- 176,000 people serviced
- 1,460 miles of water main
- 26 wellhouses and water treatment facilities
- 11 water storage tanks
- 6 water booster stations

**10** **Regional Sewer Systems**

- 1 million people serviced
- 410 miles of sewer
- 4 retention treatment facilities
- 2 water resource recovery facilities
- 3 septage unloading facilities
- 17 sewage pump stations

**26** **Local Sewer Systems**

- 146,000 people serviced
- 1,210 miles of sewer
- 7 water resource recovery facilities
- 3 sewage retention reservoirs
- 142 sewage pump stations

**429** **Stormwater Drains**

- 545 miles of enclosed storm drain
- 215 miles of open channel storm drain
- 40 Lake level control/dam structures
- 10 pump stations

# Water Infrastructure Solutions

The theme for the past decade has been do more with less. This is even more prevalent today with infrastructure replacement and rehabilitation projects, especially in the post pandemic era with its ever rising inflation. To maximize the value of infrastructure investment, both short- and long-term funding opportunities were sought for water infrastructure projects that would facilitate regional collaboration.

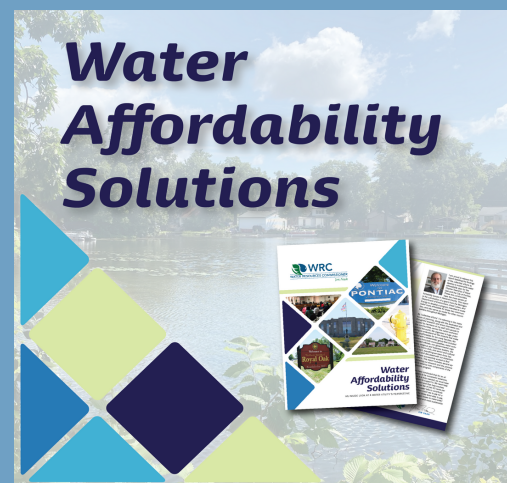
## Water Affordability

Water affordability is an ongoing concern for many communities in Oakland County and across the nation. The WRC was awarded a \$444,600 grant to investigate potential water affordability solutions for water utilities. Providing safe drinking water and reliable sewer services is a cornerstone of public health protection. Water utilities face the challenge of maintaining proper investment in water and sewer systems to ensure safe and reliable services, while simultaneously keeping water rates to pay for those services affordable. In October 2022, the WRC published a Water Affordability Solutions report that provided recommendations on how water utilities can balance infrastructure needs with affordability solutions. Some of the key findings include:

- Unlike with gas and electric utilities, there is no federal or statewide strategy to provide comprehensive solutions to address water affordability. A recent survey showed that affordability concerns are present in every geographic and demographic across the state. Therefore, a statewide plan was determined to be necessary to advance water affordability for all communities in Michigan.

- Water utilities should not forgo water and sewer system maintenance and improvement projects to keep customer rates low, particularly when inaction would compromise the utility's ability to provide safe and reliable water services. Short-term cost saving measurements to keep rates artificially low usually result in more expensive long-term financial consequences.

To learn more about our work, visit [oakgov.com/affordability](http://oakgov.com/affordability).



## Water Infrastructure Funding

Two large infrastructure spending laws were adopted in the past few years. At the federal level, the Bipartisan Infrastructure Law was passed and at the state level, the Building Michigan Together Plan allocated some of the billions in federal American Rescue Plan Act (ARPA) dollars to water infrastructure in Michigan. Both funding mechanisms are processed through the State Revolving Loan Program for Michigan.

For its part, the WRC spent significant resources applying for and receiving three Clean Water State Revolving Fund projects and five Clean Water Non-Point Source projects totaling more than \$31.5 million in grants and principal forgiveness and more than \$150 million in low interest loans which saved the communities in Oakland County tens of millions in financing costs.

The WRC did not stop there. Constantly looking for ways to offset expenses for water customers, it applied for and received two drinking water asset management grants to assist Pontiac and Royal Oak Township optimize a plan to replace lead service lines and aging water infrastructure. In addition, the WRC teamed with several communities to obtain more than \$1 million in ARPA money allocated to Oakland County. That money was used to cover sanitary sewer inspections and project planning expenses.



Apply



Receive



Save

The WRC is constantly working to maintain the high level of service that its customers have come to expect. Part of that process is continual capital improvements where needed. In FY 2022, the WRC worked on more than 76 large capital projects over \$200,000 with a combined investment of \$251 million. See **Appendix B: FY 2022 Projects**. Several of these projects included innovative approaches to collaboration to ensure the optimal solution. These projects broke new ground with respect to industry standards and ensured that the facilities owned and operated by the WRC created an exceptional value return for investment dollars while protecting public health and providing reliable service.

# Northeast Sanitary Sewage Pumping Station and the North Interceptor-East Arm Rehabilitation Projects

In the spring of 2019, the Oakland-Macomb Interceptor Drain Drainage District (OMID) and the Great Lakes Water Authority (GLWA) entered into an agreement to allow OMID to manage the day-to-day maintenance and capital improvement projects for the downstream Northeast Sanitary Pumping Station (NESPS) and the North Interceptor-East Arm (NI-EA) sewer that solely serve OMID. Previously, GLWA was handling only the maintenance services for these facilities at an annual cost of more than \$8 million.

Both the Northeast Sewage Pumping Station with its contract capacity of 423 cubic feet per second (cfs) and the downstream NI-EA, with a diameter that ranges between nearly 12 feet and nearly 18 feet, were constructed in the 1970s and need significant repairs. Consequently, OMID engaged in three capital projects to rehabilitate these facilities.

Another NI-EA project begun in 2022, consists of lining approximately 800-foot section of the interceptor on Gratiot Avenue near Mack Avenue in Detroit using multiple lining products as part of a pilot study similar to the project mentioned above. These lined sections will be monitored to evaluate long-term performance of the various liner products. This practice will increase the knowledge base of the region which will be helpful when considering options for future repairs.

Additionally, as part of the project, two flow control structures will be added to provide as-needed flow diversion between the existing Interceptor and the existing sewer at Seven Mile Road to facilitate lining operations. The project also entails debris removal, leak sealing and spot repair of the interceptor at various locations. Work is scheduled to begin in June 2023 and be complete by June 2025.

Collectively, these projects represent an estimated investment of \$100 million.

There is **no additional cost to the ratepayers** thanks to an \$8 million per year in annual maintenance savings offset from a GLWA agreement utilized to cover the yearly bond payment.

The NESPS electrical upgrades project entails a complete upgrade of existing pumps, electrical switchgear, transformers, process piping, valving and other appurtenances to restore acceptable functionality and reliability to station operations. The work is being performed using a Construction Manager At Risk (CMAR) contract to help with pre-procurement of long-lead equipment to accelerate the project. Construction began in August 2020 with a new building to house new electrical components and facilitate the transfer of assets while keeping the facility operational. Work is anticipated to be complete by August 2024.

One of the NI-EA projects, which is under construction, consists of lining approximately 1,700 feet of corroded pipe that measures nearly 18 feet in diameter immediately downstream of the pumping station.

A 45-foot-deep access shaft has been constructed to perform the lining effort. The project also includes manhole repairs and leak sealing as well as removing debris from inside the interceptor pipe. As part of the bidding process, contractors were required to install three different liner sections within the interceptor at varying lengths of their choosing based on price. This process allowed for increased competition among lining suppliers. It also gave OMID the opportunity to study the various liners' viability in an area with one of the highest concentration of hydrogen sulfide in the region.

This project is estimated to be the largest sanitary sewer slip lining project in the world. The project is expected to be complete by June 2023.



# Evergreen-Farmington Corrective Action Plan: Thinking Differently About Overflow Management

On occasion, heavy rains cause sanitary sewer and combined sewer overflows throughout southeast Michigan. The Evergreen-Farmington Sanitary Drain District (EFSD) was created to address these issues and to minimize the amount of untreated sewage entering the Rouge River, which flows into the Detroit River and eventually to Lake Erie. These overflows have the potential of sending E. coli to the Rouge River and exerting increased oxygen demand on the river. This can cause a reduction in dissolved oxygen in the river, which can be harmful to fish and other aquatic organisms.

## Collaborating to reduce discharges

The need to manage these overflows in the region is significant. But rather than relying on each sewerage district in the area to develop its own local solution, three entities (Oakland County, the Great Lakes Water Authority and the City for Detroit) have come together to form a unique collaboration with a regional focus to reduce combined sewer and sanitary sewer discharges into local waterways. From a regional perspective, several construction projects have been identified for consideration over the next five years.

The Evergreen-Farmington Sanitary Drain is increasing its conveyance capacity along 8 Mile Road through increased capacity at an existing pump station and a new force main. The 8 Mile Pump Station will be modified to increase its ability to handle more sewage flow. This includes improvements to the pumps, modifications to the discharge piping, electrical equipment, mechanical equipment, and modifications of the structural elements. The existing pumps will be replaced with four 460 horsepower pumps. The electrical equipment needs to be replaced and upsized to supply the increase in power for the new pumps. The pump station structure needs to be modified to allow room for the larger pumps to be installed. This requires the removal of one of the floors within the pump station in addition to other structural modifications. Modifications will also be done to the downstream Evergreen Emergency Sanitary Sewer Overflow (SSO) Chamber as part of this work. The weir wall will be both longer and higher by several feet to accommodate the increased flow. The electrical, mechanical, and level monitoring system will also be replaced at the chamber.

A new force main will be constructed to convey the additional flow from the pump station. This includes the construction of 6,040 feet of 54-inch diameter sanitary sewer force main. The force main will run down 8 Mile Road from the pump station to the existing Evergreen Emergency SSO Chamber. Two lanes of 8 Mile Road will be reconstructed as part of this project. Additionally, the force main phase of the project will need to be coordinated with the work at the pump station, the SSO chamber and the Michigan Department of Transportation (MDOT) project approximately a mile away at the intersection of Telegraph and 8 Mile Road in the City of Southfield.

Together, these modifications will allow for more sewage flow to be conveyed through the system. The project has an incredibly detailed construction sequence which requires phased construction and a vast amount of temporary construction. This allows the existing pump station, which serves nearly 300,000 Oakland County residents, to remain in service throughout construction process. This project also utilized the Construction Manager At Risk (CMAR) procedure which allowed the team to pre-purchase long lead items such as the generator, pumps, electrical equipment and actuators. In addition, the CMAR procedure provided input on how the project was designed and sequenced to minimize risk. With this enlarged capacity, the Evergreen-Farmington Sanitary Drain will not only improve system reliability but will also avoid the higher cost of constructing a new wet-weather storage facility, as well as costs from its long-term operations and maintenance.

The City of Detroit will construct the West Warren Green Infrastructure Project in a residential neighborhood immediately west of the Rouge River and North of West Warren Avenue. The project includes sewer separation, neighborhood drainage improvements and a green stormwater infrastructure (GSI) feature in the Rouge Park. The GSI feature will provide for the removal of particles that are not dissolved in the stormwater stream. These particles are commonly referred to as "Total Suspended Solids." It also will reduce peak flow rates from the new storm sewer system to the Rouge River. The existing combined sewer will continue to collect and convey flow from sanitary leads, footing drains and various other connections but will convey it at a much lower volume to the Great Lake Water Authority. That will free up much-needed capacity for the Evergreen-Farmington Sanitary Drain.

For its part, the Great Lakes Water Authority will accelerate its schedule for a two-part improvement project at its West Warren combined sewer outfall located along the Rouge River in Detroit. This will address and substantially reduce wet-weather discharges from this site. The project includes constructing a new diversion weir chamber at the existing outlet of the Rouge River and will triple the size of an existing 18-inch diameter pipe to a 54-inch pipe east of the Rouge River.

Combined, the projects will prevent approximately **48 million gallons of untreated wet-weather discharge from flowing into the Rouge River each year.**

**The drainage district will invest more than \$130 million in this joint effort.** Ultimately, coordinating these projects across multiple jurisdictions allows for a collaborative direction to maximize the investment value while achieving an overall cost savings for those in the region. It provides a significant environmental benefit while obtaining increased system reliability.

# I-75 Modernization and GWK Dequindre Pump Station Rehabilitation Projects

As part of the Michigan, I-75 Modernization Project from north of 13 Mile Road to north of 8 Mile Road in Madison Heights, Royal Oak, Hazel Park and Ferndale, WRC entered into agreements with MDOT to improve regional water quality. As part of the project, MDOT is constructing a 25-million-gallon, four-mile-long, deep tunnel adjacent to the service drives. It also is building a new pump station on property owned by the George W. Kuhn Drainage District (GWK) in Madison Heights. To ensure that operations between the I-75 project and the GWK interface to the greatest benefit of the region, the GWK will operate the pump station once it's constructed.

Through a coordinated effort between the WRC and MDOT, this project will allow MDOT to capture stormwater runoff from I-75 from most storms up to a 100-year rain event without increasing discharge to the GWK's retention and treatment basin. This project, which involves widening the interstate, allows for the so called "first flush" capture of stormwater runoff from I-75. First flush refers to the initial runoff of surface water and prevents most of the polluted water from entering the storm drains. Water found in the first flush, which is treated at the GWK facility, is more concentrated than subsequent stormwater runoff.

After the first flush runoff is captured and treated, any additional stormwater runoff from I-75 will be directed to a new stormwater outlet, preventing the majority of the expressway's stormwater runoff from entering the combined sewer system. The additional 25 million gallons of storage and the stormwater outlet frees GWK's basin capacity previously utilized by MDOT for some storm events. That increased capacity is expected to reduce the volume and frequency of treated discharges to the Red Run Drain.

Some of the equipment in the Dequindre Pump Station were nearing the end of their useful life and before conditions deteriorated, they needed to be rehabilitated to reduce the potential of future failures. The majority of the mechanical and electrical equipment was rehabilitated, and in the process, piping was replaced in the pump station. This project ensures that the GWK can discharge the maximum allowable flow rate to the Great Lakes Water Authority.

Together these two projects align with the approved Regional Operating Plan for the Great Lake Water Authority. This plan has been reviewed and approved by GLWA to maximize both existing and proposed facilities to improve water quality throughout the region.



## **2. Acacia Park CSO**

## **AGENDA**

### **DRAINAGE BOARD FOR THE ACACIA PARK CSO DRAIN**

March 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of February 28, 2023
3. Public Comments
4. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$5,333.63
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE ACACIA PARK CSO DRAIN**

February 28, 2023

A meeting of the Drainage Board for the Acacia Park CSO Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 28<sup>th</sup> day of February 2023.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

David Woodward, Chairperson of the Oakland County Board of Commissioners

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: None.

Minutes of the meeting held January 24, 2023, were presented for consideration. It was moved by Markham, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.


A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$54,900.96 (as attached) was presented. It was moved by Markham, supported by Woodward, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$54,900.96.

ADOPTED: Yeas - 3  
Nays - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham and Mr. Woodward.

ADOPTED: Yeas - 3  
Nays - 0

There being no further business, the meeting was adjourned.



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Jim Nash, Chairperson



STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Acacia Park CSO Drain, Oakland County, Michigan, held on the 28<sup>th</sup> day of February 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Acacia Park CSO Drain Drainage District.



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Jim Nash, Chairperson

Dated: February 28, 2023

MEMO TO: Mr. Jim Nash, Chairman  
of the Drainage Board for the ACACIA PARK CSO DRAIN

FROM: Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting

*A For Shawn Phelps*

DATE: March 28, 2023

SUBJECT: Request for Approval of Invoices

The following is a detail of Maintenance charges paid from the Drain Revolving Fund and Invoices for the period ending March 17, 2023

G/L Date	Ref No.	Paid To	For	Amount
	TBP	Allied Building Services of Detroit Inc	Invoice #00298257 - Contracted Services	\$ 5,333.63
			<b>Total</b>	<b>\$ 5,333.63</b>

### **3. Birmingham CSO**

## **AGENDA**

### **DRAINAGE BOARD FOR THE BIRMINGHAM CSO DRAIN**

March 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of February 28, 2023
3. Public Comments
4. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$32,152.16
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE BIRMINGHAM CSO DRAIN**

February 28, 2023

A meeting of the Drainage Board for the Birmingham CSO Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 28<sup>th</sup> day of February 2023.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

David Woodward, Chairperson of the Oakland County Board of Commissioners

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: None.

Minutes of the meeting held January 24, 2023, were presented for consideration. It was moved by Markham, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A memorandum from Leslie Maes, Operations Engineer, dated February 28, 2023, requesting the Board approve the Generator and Automatic Transfer Switch Replacement capital improvement project for the budgeted amount of \$250,000 and award engineering services to Sigma Associated for the not-to-exceed amount of \$16,490 was presented. It was moved by Markham, supported by Woodward, to approve the Generator and Automatic Transfer Switch Replacement capital improvement project for the budgeted amount of \$250,000 and award engineering services to Sigma Associated for the not-to-exceed amount of \$16,490 as presented.

ADOPTED: Yeas - 3  
Nays - 0

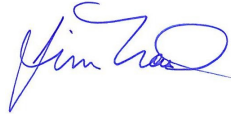
A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$70,997.58 (as attached) was presented. It was moved by Markham, supported by Woodward, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amended amount of \$72,597.58.

ADOPTED: Yeas - 3  
Nays - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham and Mr. Woodward.

ADOPTED: Yeas - 3  
Nays - 0

There being no further business, the meeting was adjourned.

A handwritten signature in blue ink, appearing to read "Jim Nash", is written above a horizontal line.

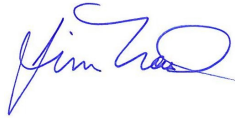
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Jim Nash, Chairperson

STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Birmingham CSO Drain, Oakland County, Michigan, held on the 28<sup>th</sup> day of February 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Birmingham CSO Drain Drainage District.



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Jim Nash, Chairperson

Dated: February 28, 2023

MEMO TO: Mr. Jim Nash, Chairman  
of the Drainage Board for the BIRMINGHAM CSO DRAIN

FROM: Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting

*Q for Shawn Phelps*

DATE: March 28, 2023

SUBJECT: Request for Approval of Invoices

The following is a detail of Maintenance charges paid from the Drain Revolving Fund and Invoices  
for the period ending March 17, 2023

<u>G/L Date</u>	<u>Ref No.</u>	<u>Paid To</u>	<u>For</u>	<u>Amount</u>
	V # SINV00168830	Kentain Products Limited	Invoice # 7076 - Contracted Services - Proj 1-3497	\$ 26,850.00
	V # SINV00169263	Marine Pollution Control	Invoice # 40658 - Contracted Services - Proj 1-3497	5,011.16
			<b>Sub Total - Project # 1-3497</b>	<b>\$ 31,861.16</b>
	V # SINV00168530	Applied Science Inc	Invoice # 8342- Contracted Services - Proj 1-3196	\$ 291.00
			<b>Sub Total Project # 1-3196</b>	<b>\$ 291.00</b>
			<b>Total</b>	<b>\$ 32,152.16</b>



## **4. Bloomfield Village CSO**

## **AGENDA**

### **DRAINAGE BOARD FOR THE BLOOMFIELD VILLAGE CSO DRAIN**

March 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of February 28, 2023
3. Public Comments
4. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$16,023.07
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE BLOOMFIELD VILLAGE CSO DRAIN**

February 28, 2023

A meeting of the Drainage Board for the Bloomfield Village CSO Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 28<sup>th</sup> day of February 2023.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

David Woodward, Chairperson of the Oakland County Board of Commissioners

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: None.

Minutes of the meeting held January 24, 2023, were presented for consideration. It was moved by Markham, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A motion was made by Markham, supported by Woodward, to enter into closed session at 2:15 p.m. to discuss a memorandum with the Drainage District's attorney, which is exempt from disclosure as subject to attorney-client privilege pursuant to section 13(1)(g) of the Freedom of Information Act.

ADOPTED: Yeas - 3  
Nays - 0

Chairperson Nash declared the closed session ended at 2:40 p.m.

It was moved by Markham, supported by Woodward, to authorize action consistent with the recommendation of legal counsel in closed session.

ADOPTED: Yeas - 3  
Nays - 0


A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$28,189.90 (as attached) was presented. It was moved by Markham, supported by Woodward, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amended amount of \$26,589.90.

ADOPTED: Yeas - 3  
Nays - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham and Mr. Woodward.

ADOPTED: Yeas - 3  
Nays - 0

There being no further business, the meeting was adjourned.



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Jim Nash, Chairperson

STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Bloomfield Village CSO Drain, Oakland County, Michigan, held on the 28<sup>th</sup> day of February 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Bloomfield Village CSO Drain Drainage District.



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Jim Nash, Chairperson

Dated: February 28, 2023

MEMO TO: Mr. Jim Nash, Chairman  
of the Drainage Board for the BLOOMFIELD VILLAGE CSO DRAIN

FROM: Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting

*S for Shawn Phelps*

DATE: March 28, 2023

SUBJECT: Request for Approval of Invoices

The following is a detail of Maintenance charges paid from the Drain Revolving Fund and Invoices for the period ending March 17, 2023

G/L Date	Ref No.	Paid To	For	Amount
	TBP	Allied Building Services of Detroit Inc	Invoice #00302496 - Contracted Services	\$ 4,608.97
			<b>Total</b>	<u>\$ 4,608.97</u>
3/21/2023	V # SINV00169255	Dickinson Wright PLLC	Invoice # 1777949 - Legal Services -01/31/23 - Proj # 1-7077	\$ 1,243.10
	TBP	Dickinson Wright PLLC	Invoice # 1786355 - Legal Services -02/28/23 - Proj # 1-7077	\$ 6,481.00
			<b>Project # 1-7077 Subtotal</b>	<u>\$ 7,724.10</u>
	TBP	CSM Mechanical LLC	Invoice #23-083 - Contracted Services - Proj 1-7068	\$ 3,690.00
			<b>Project # 1-7068 Subtotal</b>	<u>\$ 3,690.00</u>
			<b>Total</b>	<u>\$ 16,023.07</u>

## **5. George W. Kuhn Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE GEORGE W. KUHN DRAIN**

March 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of February 28, 2023
3. Public Comments
4. Present Memorandum from George P. Nichols, P.E., Civil Engineer III, dated March 28, 2023, requesting the Board authorize \$200,000 from the Drainage District's Sewage Disposal Fund to proceed with the completion of the additional siphon cleaning services
5. Present Memorandum from George P. Nichols, P.E., Civil Engineer III, dated March 28, 2023, requesting the Board authorize \$8,000 from the Drainage District Sewage Disposal Fund to proceed with the inventory of the College Avenue and Ferndale Drain mapping of sewers and manholes
6. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$50,004.37
7. Other business
8. Approve pro rata payment to Drainage Board members
9. Adjourn



**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE GEORGE W. KUHN DRAIN**

February 28, 2023

A meeting of the Drainage Board for the George W. Kuhn Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 28<sup>th</sup> day of February 2023.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

David Woodward, Chairperson of the Oakland County Board of Commissioners

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: None.

Minutes of the meeting held January 24, 2023, were presented for consideration. It was moved by Markham, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A memorandum from Jeffrey S. Parrott, Supervisor Right of Way, dated February 28, 2023, requesting the Board authorize the Chairperson to execute easements necessary for the operation and maintenance of improvements associated with the Michigan Department of Transportation Stormwater Pump Station associated with the I-75 Modernization Project was presented. It was moved by Markham, supported by Woodward, to authorize the Chairperson to execute easements necessary for the operation and maintenance of improvements associated with the Michigan Department of Transportation Stormwater Pump Station associated with the I-75 Modernization Project as presented.

ADOPTED: Yeas - 3  
Nays - 0

A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$43,890.33(as attached) was presented. It was moved by Markham, supported by Woodward, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$43,890.33.

ADOPTED: Yeas - 3  
Nays - 0

Gary Nigro updated the Board on the status of the tributary system review with Hubbell, Roth & Clark. At this time, the Berkley community has volunteered to be a part of the pilot program, which will identify the scope of the project goals and future phasing. Mr. Nigro noted that once the program is implemented, it will be spread across multiple Drainage Districts.

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham and Mr. Woodward.

ADOPTED: Yeas - 3  
Nays - 0

There being no further business, the meeting was adjourned.



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Jim Nash, Chairperson

STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the George W. Kuhn Drain, Oakland County, Michigan, held on the 28<sup>th</sup> day of February 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the George W. Kuhn Drain Drainage District.



---

Jim Nash, Chairperson

Dated: February 28, 2023

**OAKLAND COUNTY  
WATER RESOURCES COMMISSIONER****MEMORANDUM**

**TO:** Jim Nash, Chairman of the Drainage Board for the George W. Kuhn Drain

**FROM:** George P. Nichols, P.E., Civil Engineer III *GPN*

**SUBJECT:** George W. Kuhn Siphon Cleaning

**DATE:** March 28, 2023

As part of the siphon cleaning program within the GWK Drainage system, there were three siphons that never got properly inspected and cleaned during the U.S Army Corps of Engineers Sewer Video Project. These consist of the SOCSDS Interceptor siphon on 12 Mile Road east of Stephenson, the SOCSDS Interceptor siphon on Stephenson south of 12 Mile Road, and the Dequindre Interceptor on Dequindre north of 13 Mile Road.

Our office generated the required documents and obtained a quote from Doestch Environmental who is one of our as-needed contractors who specializes in this type of work. The work performed by Doestch included cleaning of the siphons and performing CCTV services for all three siphons. This work took place while MDOT had 12 Mile Road closed due to the bridge improvement project for the I-75 project, which aided with access to the manholes that are located in the middle of the traffic lanes.

In order for our office to complete this work and finalize the project, authorization of \$200,000 is needed from the Drainage Board. The amount has already been included and budgeted within the Major Maintenance Budget for FY 2023 that was previously approved.

The GWK Drainage District Sewage Disposal fund has the necessary funds available to participate in this project.

**Requested Action:**

**Authorization of \$200,000 from the GWKDD Sewage Disposal Fund to proceed with the completion of the additional siphon cleaning services.**

**OAKLAND COUNTY  
WATER RESOURCES COMMISSIONER****MEMORANDUM**

**TO:** Jim Nash, Chairman of the Drainage Board for the George W. Kuhn Drain

**FROM:** George P. Nichols, P.E., Civil Engineer III *GPN*

**SUBJECT:** George W. Kuhn Mapping Program

**DATE:** March 28, 2023

Recommendations for cleaning and televising (CCTV) the sewers within the George W. Kuhn Drain are continually being identified, evaluated, and planned for by WRC staff including the asset management group, staff engineers and Construction Drain Maintenance department.

It was discovered that some areas within the GWK Drainage area do not have the proper drainage mapping established for identifying the sewers and manholes. These areas consist of the College Avenue and the Ferndale Drain.

Our Construction Maintenance Department is available to perform these services to obtain an accurate inventory of both drains. In order for our office to complete this work authorization of \$8,000 is needed from the Drainage Board. The amount has already been included and budgeted within the Major Maintenance Budget for FY 2023 that was previously approved.

The GWK Drainage District Sewage Disposal fund has the necessary funds available to participate in this project.

**Requested Action:**

**Authorization of \$8,000 from the GWKDD Sewage Disposal Fund to proceed with the inventory of the College Avenue and Ferndale Drain mapping of sewers and manholes.**

**MEMO TO:** Mr. Jim Nash, Chairman  
of the Drainage Board for the GEORGE W. KUHN DRAIN

**FROM:** Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting *X FOR SHAWN PHELPS*

**DATE:** March 28, 2023

**SUBJECT:** Request for Board approval of payment of the following invoices:

<u>Payable To</u>	<u>Ref No.</u>	<u>For</u>	<u>Amount</u>
Orchard Hiltz & McCliment Inc	TBP	Invoice # 60657 - Professional Services - 02/25/23	\$ 482.50
Orchard Hiltz & McCliment Inc	TBP	Invoice # 60659 - Professional Services - 02/25/23	965.83
Dickinson Wright PLLC	TBP	Invoice # 1777959 - Legal Services - 01/31/23	10,999.27
Dickinson Wright PLLC	TBP	Invoice # 1786351 - Legal Services - 02/28/23	8,036.77
		<b>Total</b>	<b>\$ 20,484.37</b>
Center for Watershed Protection Inc	TBP	Invoice # W-22-37 #1 - Contracted Services - 02/01 - 02/28/23	\$ 1,520.00
		<b>Subtotal Project # 1-7235</b>	<b>\$ 1,520.00</b>
Kentain Products Limited	TBP	Invoice # 7076 - Contracted Services - Proj # 1-3670	\$ 28,000.00
		<b>Subtotal Project # 1-3670</b>	<b>\$ 28,000.00</b>
		<b>Total</b>	<b>\$ 50,004.37</b>

**6. Evergreen-Farmington  
Sanitary Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE EVERGREEN-FARMINGTON SANITARY DRAIN**

March 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of February 28, 2023
3. Public Comments
4. Present Memorandum from Joel Kohn, Environmental Planner, dated March 28, 2023, requesting the Board approve \$50,000 for Alliance for Rouge Communities (ARC) staff to complete sampling work within the Drainage District thought the 2023 sampling season
5. Present Change Order No. 1 for Construction of the Walnut Lake No. 3 Pump Station Rehabilitation for a net increase in the amount of \$57,260.27
6. Present Change Order No. 2 for Construction of the S. Evergreen Interceptor Rehabilitation for a net increase in the amount of \$114,700.50
7. Present Construction Estimate No. 12 for the 8 Mile Road Pump Station & SSO Chamber Improvements – Phase 1 in the amount of \$173,894.63 with a transfer to the Oakland County Treasurer in the amount of \$19,321.63
8. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$54,439.94
9. Other business
10. Approve pro rata payment to Drainage Board members
11. Adjourn



**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE EVERGREEN -FARMINGTON SANITARY DRAIN**

February 28, 2023

A meeting of the Drainage Board for the Evergreen-Farmington Sanitary Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 28<sup>th</sup> day of February 2023.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

David Woodward, Chairperson of the Oakland County Board of Commissioners

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: None.

Minutes of the meeting held January 24, 2023, were presented for consideration. It was moved by Markham, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A memorandum from Carrie Cox, P.E. – Special Projects Manager, dated February 28, 2023, requesting the Board approve the agreement between the Drainage District and the City of Lathrup Village and authorize the Chairperson to execute the agreement was presented. It was moved by Markham, supported by Woodward, to approve the agreement between the Drainage District and the City of Lathrup Village and authorize the Chairperson to execute the agreement as presented.

ADOPTED: Yeas - 3  
Nays - 0

A memorandum from Lesli Maes, Operations Engineer, dated February 28, 2023, requesting the Board approve the Eldon Street Pump Actuator Addition capital improvement project for the budgeted amount of \$50,000 was presented. It was moved by Markham, supported by Woodward, to approve the Eldon Street Pump Actuator Addition capital improvement project for the budgeted amount of \$50,000 as presented.

ADOPTED: Yeas - 3  
Nays - 0

Construction Estimate No. 11 for the 8 Mile Road Pump Station & SSO Chamber Improvements – Phase 1 in the amount of \$240,259.75 with a transfer to the Oakland County

Treasurer in the amount of \$26,695.53 was presented. It was moved by Markham, supported by Woodward, to approve Construction Estimate No. 11 for the 8 Mile Road Pump Station & SSO Chamber Improvements – Phase 1 in the amount of \$240,259.75 with a transfer to the Oakland County Treasurer in the amount of \$26,695.53 as presented.

ADOPTED: Yeas - 3  
Nays - 0

A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$635,552.10 (as attached) was presented. It was moved by Markham, supported by Woodward, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$635,552.10.

ADOPTED: Yeas - 3  
Nays - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham and Mr. Woodward.

ADOPTED: Yeas - 3  
Nays - 0

There being no further business, the meeting was adjourned.



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Jim Nash, Chairperson

STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Evergreen-Farmington Sanitary Drain, Oakland County, Michigan, held on the 28<sup>th</sup> day of February 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Evergreen-Farmington Sanitary Drain Drainage District.



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Jim Nash, Chairperson

Dated: February 28, 2023

**OAKLAND COUNTY  
WATER RESOURCES COMMISSIONER****MEMORANDUM**

**TO:** Jim Nash, Chairperson  
Evergreen-Farmington Sanitary Drain Drainage District

**FROM:** Joel Kohn, Environmental Planner

**SUBJECT:** Great Lakes Water Authority Investigational Grab Sampling Program

**DATE:** March 28, 2023

At the January 24, 2023 Drain Board meeting, \$50,000 was approved for the Environmental Unit staff to complete sampling work within the Evergreen-Farmington Drain Drainage District throughout the 2023 sampling season as part of the Great Lakes Water Authority (GLWA) regional investigational grab sampling program to be conducted for a minimum of 5 years.

As part of the GLWA project, the Alliance for Rouge Communities (ARC) is providing sampling for the Wayne County portion of the watershed. With ARC's expertise in the watershed and ongoing sampling in the Wayne County portion of the watershed, WRC asked for a proposal for the ARC to provide services for the Oakland County portion of sampling within the ARC in the Evergreen-Farmington Sanitary Drain Drainage District. The ARC's assistance will provide WRC staff more time to focus sampling efforts in other watersheds to improve water quality commencing this spring and summer.

The scope of work includes:

- Development of a sampling plan that outlines the sampling collection and analytical methods, location of sampling sites, quality control methods and data analysis approach.
- Collection of instream water quality samples at several sites on a weekly basis for 20 weeks. Eight sites are planned for the Evergreen Farmington Sanitary Sewer District. These eight sites will cover portions of the Upper Branch, Minnow Pond Creek and Seeley Drain.
- Collection of quality control samples as specified in the sampling plan.
- Analyze samples for E. coli.
- Upload analytical data to the GLWA Watershed Hub data portal on a weekly basis.
- Summarize the sampling results in a PowerPoint presentation. This includes identification of impaired reaches based on the parameters outlined in the sampling plan.
- Identify priority outfalls that may be draining to the impaired reaches based on community and county storm drain and combined sewer outfall GIS data available to the ARC.
- This data from this work will be summarized in a final report after combined with data expected to be collected in 2024 in the rest of the Evergreen Farmington system.

**Recommended Action: Approve \$50,000 for ARC staff to complete sampling work within the Evergreen-Farmington Drain Drainage District throughout the 2023 sampling season.**



Annette DeMaria, P.E., PMP  
Executive Director

Auburn Hills  
Beverly Hills  
Bingham Farms  
Birmingham  
Bloomfield Hills  
Bloomfield Twp.  
Canton Twp.  
Commerce Twp.  
Dearborn Heights  
Farmington  
Farmington Hills  
Franklin  
Garden City  
Henry Ford College  
Inkster  
Lathrup Village  
Livonia  
Melvindale  
Northville  
Northville Twp.  
Novi  
Oak Park  
Oakland County  
Orchard Lake  
Plymouth  
Plymouth Twp.  
Redford Twp.  
Rochester Hills  
Romulus  
Schoolcraft College  
Southfield  
Troy  
University of  
Michigan-Dearborn  
Van Buren Twp.  
Walled Lake  
Washtenaw County  
Wayne  
Wayne County  
Wayne County Airport  
Authority  
West Bloomfield Twp.  
Westland  
Wixom

March 16, 2023

Mr. Joel Kohn  
Oakland County Water Resources Commissioners Office (OCWRC)  
On behalf of the Evergreen Farmington Sanitary Disposal System  
1 Public Works Drive  
Waterford, MI 48066

**RE: Rouge River Watershed Investigational Sampling Proposal**

Dear Mr. Kohn:

The Alliance of Rouge Communities (ARC) is pleased to submit this proposal, at your request, to complete sampling and data analysis in the Rouge River Watershed.

The purpose of this work is to improve water quality in the Rouge River by identifying areas where wastewater is impacting the river and its tributaries. This will be accomplished by conducting routine sampling of the river and its tributaries at numerous locations to identify stream segments with high *E. coli* concentrations. This sampling will be conducted in dry and wet weather conditions.

ARC staff is well suited to complete this work as 1) we have an understanding of previously conducted sampling efforts and outfall investigations in the watershed, 2) we can provide a consistent, unbiased approach across the watershed to identify problem areas, and 3) it will allow for ARC staff to cost-effectively follow up on the investigations that are expected to be recommended upon completion of the project.

The scope of work and budget are provided for your consideration as Attachment A. If you find this proposal acceptable, the ARC will provide an Inter-Agency Agreement for review and approval.

If you have any questions about this proposal, please contact Annette DeMaria at 248-765-4085 or [ademaria@ectinc.com](mailto:ademaria@ectinc.com).

Sincerely,

Doug Moore  
ARC Chair

Attachment

X:\Alliance of Rouge Communities\Contracts\2023\P23WR-0007 Investigational Sampling\Investigational sampling OC 031623.docx

Cooperating Partners:  
Cranbrook Institute of Science  
Friends of the Rouge  
Great Lakes Water Authority  
Rouge River Advisory Council  
SEMCOG  
Southeastern Oakland  
County Water Authority  
The Henry Ford



## Attachment A

### Rouge River Watershed Investigational Sampling Scope of Work and Budget

#### SCOPE OF WORK

The ARC will complete the tasks as detailed below.

#### Task 1. Project Planning, Administration and Communication

- Development of a sampling plan that outlines the sampling collection and analytical methods, location of sampling sites, quality control methods and data analysis approach.
- Preparation of a health and safety assessment.
- Completion of a reconnaissance of the sampling sites to ensure that they can be accessed safely.
- Participate in up to 2 meetings with the sewer district: kick off and draft results.

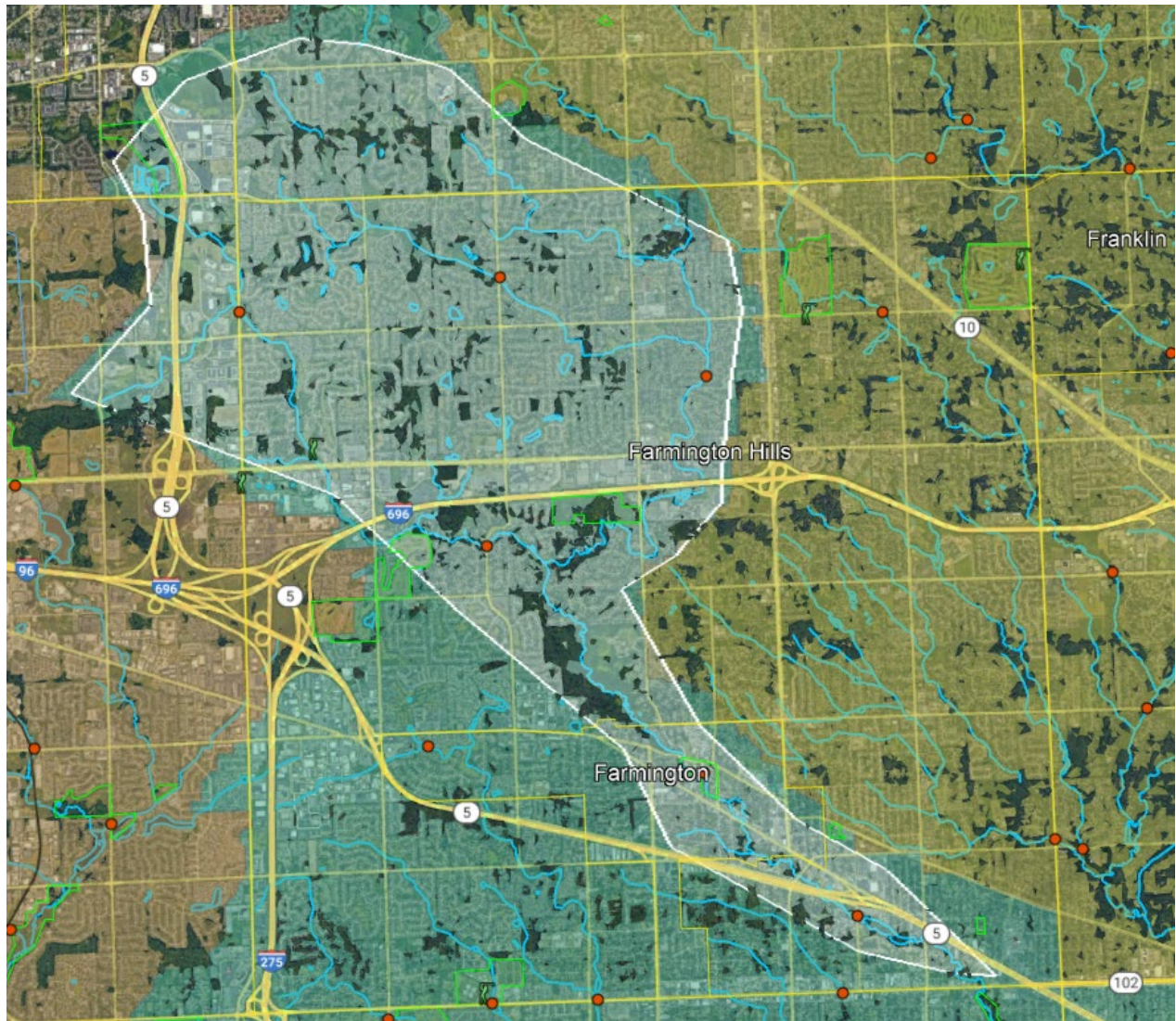
#### Task 2. Instream Data Collection

- Collection of instream water quality samples at several sites on a weekly basis for 20 weeks. Eight sites are planned for the Evergreen Farmington Sanitary Sewer District. These eight sites will cover portions of the Upper Branch, Minnow Pond Creek and Seeley Drain. Six of the eight sites are shown in Figure 1. Two more sites will be added in consultation with OCWRC.
- Collection of quality control samples as specified in the sampling plan.
- Analyze samples for *E. coli*.
- Upload analytical data to the GLWA Watershed Hub data portal on a weekly basis.
- Download of rainfall data from existing rain gauges.
- Correlate rainfall data with *E. coli* data to determine weather conditions at the time of sample collection.
- Summarize the sampling results in a PowerPoint presentation. This includes identification of impaired reaches based on the parameters outlined in the sampling plan.
- Identify priority outfalls that may be draining to the impaired reaches based on community and county storm drain and combined sewer outfall GIS data available to the ARC.
- This data from this work, will be summarized in a final report after combined with data expected to be collected in 2024 in the rest of the Evergreen Farmington system.

#### Deliverables:

- Instream *E. coli* data in a spreadsheet format.
- Data upload to the Watershed Hub data portal
- Instream sampling summary PowerPoint

Figure 1. Target Area



Assumptions:

To prepare this proposal, we have made the following assumptions:

- Rainfall data will be from existing rain gauges. No new rain gauges will be installed.
- The online data portal will be managed by others.

**SCHEDULE**

The ARC anticipates completing the work as shown below assuming notice to proceed by April 15, 2023.

TASK	Months											
	A	M	J	J	A	S	O	N	D	J	F	M
<b>TASK 1: Project Administration and Communication</b>												
Site reconnaissance												
Sampling plan development												
1 kick off meeting												
<b>TASK 2: Instream Data Collection and Reporting</b>												
Instream sample collection & analysis (May - Oct)												
Data upload to web portal												
Data analysis/priority outfall selection												
PowerPoint Preparation												
Progress meeting												

**BUDGET**

The estimated budget for the entire effort is \$50,000. The budget estimate by task is provided below.

TASK	LABOR	EXPENSES	TOTAL
Task 1. Project Planning, Administration and Communication	\$9,000	\$350	\$8,350
Task 2. Instream Data Collection	\$31,650	\$10,000	\$41,650
<b>Total</b>	<b>\$39,790</b>	<b>\$10,250</b>	<b>\$50,000</b>

*Note: ARC reserves the right to shift budget between tasks as necessary to complete the scope of work.*



CHANGE ORDER NO. 1

**Jim Nash, Oakland County Water Resources Commissioner  
 Evergreen Farmington Sanitary Drain Drainage District  
 For Construction of the Walnut Lake No. 3 Pump Station Rehabilitation  
 Bloomfield Township, Michigan  
 Oakland County, Michigan**

Authorization for Extras To & Changes In Contract

Department No. : CCN6010101  
 Fund No. : FND58410  
 Project No. : PRJ-13005

Account No. : 730352  
 Program No. : 149667  
 Project Activity : FAC

Contractor : Lawrence M. Clarke, Inc.  
 50850 Bemis Rd.  
 Belleville, MI 48111

Contract No. : 9895  
 Date of Contract: 4/29/22  
 Completion Date: 3/25/23

Auth	Location-Description-Reason	Unit	Est.	Unit Price	Amount	Amount
1-1	<p><b>LOCATION:</b> Entire project</p> <p><b>DESCRIPTION (Extra/Add):</b> Remove two additional large diameter trees in the area around the new building.</p> <p><b>REASON:</b> The additional trees were removed to provide better access around the site for maneuvering equipment and vehicles. In addition, the trees were removed to minimize potential damage if those trees fell onto the powerlines that feed the station and new building.</p>	Each	2.0	\$4,000.00	\$8,000.00	---
1-2	<p><b>LOCATION:</b> Driveway from Long Lake Road to site</p> <p><b>DESCRIPTION (Extra/Add):</b> Tree removal, stump grinding, clearing, grubbing, removal of debris, regrading for positive drainage, topsoil, seed and mulch.</p>	LS	1.0	\$48,000.00	\$48,000.00	---

**JIM NASH  
 OAKLAND COUNTY WATER RESOURCES COMMISSIONER**

CHANGE ORDER

Auth	Location-Description-Reason	Unit	Est.	Unit Price	Amount	Amount
	<p><b>REASON:</b> The additional tree removal, stump grinding, clearing and grubbing was done to minimize future maintenance cost at the facility. There was a significant amount of trees, scrubs, debris below the power lines. The field team spent a significant amount time and resources every few years trimming the trees and vegetation. We removed all the trees, scrubs, debris, regraded the site and placed topsoil, seed and mulch.</p>					
1-3	<p><b>LOCATION:</b> Pump Starters</p> <p><b>DESCRIPTION (Change/Add):</b> The motor starters for the pumps are being substituted from Square D to ABB.</p> <p><b>REASON:</b> The original supplier of the motor starters has repeatedly delayed the delivery of the equipment. The purchase order for the equipment was written on March 10, 2022 with an expected delivery date of July 15, 2022. The supplier has delayed the delivery of the equipment multiple times and the new expected delivery date is April 1, 2023. We expect the ABB motor starters to be delivered in three to four weeks.</p>	LS	1.0	\$1,260.27	\$1,260.27	---
Totals					\$57,260.27	\$0.00
Net Increase					\$57,260.27	---

**JIM NASH**  
**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**

CHANGE ORDER NO. 1

Jim Nash, Oakland County Water Resources Commissioner  
Evergreen Farmington Sanitary Drain Drainage District  
For Construction of the Walnut Lake No. 3 Pump Station Rehabilitation  
Bloomfield Township, Michigan  
Oakland County, Michigan

Prepared by: Evangelos Bantios Date: 3/14/2023  
Evangelos Bantios, P.E. - Project Engineer

Recommended by: [Signature] Date: 12 March 2023  
Mark Mattson, P.E. - Consultant

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
Joel Brown, P.E. - Chief Engineer

The Contractor agrees to do the work described above and agrees to accept payment in full on the basis indicated.

Accepted by: [Signature] Date: 3/14/23  
Lynn Harmala - President  
Lawrence M. Clarke, Inc.

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
Sid Lockhart, P.E.  
Special Projects Manager

The Contractor is hereby authorized and instructed to do the work described above in accordance with the terms of the Contract.

This Change Order was approved by the Drainage Board on:

CHANGE ORDER

CHANGE ORDER NO. 1

**Jim Nash, Oakland County Water Resources Commissioner  
Evergreen Farmington Sanitary Drain Drainage District  
For Construction of the Walnut Lake No. 3 Pump Station Rehabilitation  
Bloomfield Township, Michigan  
Oakland County, Michigan**

Notice to Proceed Date:	4/29/2022
Contract Substantial Completion Date:	2/23/2023
Contract Final Completion Date:	3/25/2023
Original Contract Value:	\$1,209,000.00
Previous C.O. Values:	\$0.00
Change Order No. 1 Value	\$57,260.27
<b>Adjusted Contract Value</b>	<b>\$1,266,260.27</b>

**JIM NASH  
OAKLAND COUNTY WATER RESOURCE COMMISSIONER**

**CHANGE ORDER NO. 2**

**Evergreen Farmington Sanitary Drain Drainage District Board  
For Construction of the S. Evergreen Interceptor Rehabilitation  
Beverly Hills, Birmingham & W. Bloomfield Township  
Oakland County, Michigan**

Authorization for Extras To & Changes In Contract

Department No.: 6010101  
Fund No.: 58410  
Project No.: 1-2914

Account No. : 370373  
Program No. : 149662  
Project Activity: FAC

Contractor:  
Pipeline Management Company  
2673 E. Maple Road  
Milford, MI 48381

Contract No. : CON9294  
Date of Contract: 1/10/2022  
Completion Date: 6/10/2022  
Extended to: N/A

Auth No.	Location-Description-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
2A	<p><b>LOCATION:</b> Entire Project</p> <p><b>DESCRIPTION (Change/Add):</b> Increase in the unit rate of the chemical grout, Item No. 15, from \$25.00/gallon to \$33.75/gallon.</p> <p><b>REASON:</b> The contractor only installed 1,970 gallons of the 6,048 gallons estimated for the project. Based on the low grout takes and in accordance with Article 26.2) of the General Conditions, the unit price can be increase but not more than 35% of the contract unit price.</p>	LS	1.0	\$17,237.50	\$17,237.50	---
2B	<p><b>LOCATION:</b> Entire Project</p>					

Auth No.	Location-Description-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
	<p><b>DESCRIPTION (Change/Add):</b>                      Additional time was required to clean the sewer prior to conducting the rehabilitation work. Heavy cleaning was conducted on 3/3/2022, 3/4/2022, 3/18/2022, 3/30/2022, 3/31/2022, 4/1/2022, 4/5/2022, 4/28/2022 and 4/29/2022. Attached is a breakdown in the labor and material used to clean the sewer. We used unit rates established in Pipeline Management's Contract No. 5952 for the time and material work.</p> <p><b>REASON:</b>                      The sewer was dewatered and televised in April of 2015. In May of 2021, as part of a large cleaning project upstream of this project, the sewer from MH BLT136001 to MH SOT009006 was cleaned and the large debris observed in 2015 was removed. Based on the data from April of 2015, we didn't expected large debris in the other reaches of the system. It appears that the large debris had migrated further down the sewer. We were unable to determine the extent of the debris migration since the sewer requires bypass pumping to expose the invert of the sewer. The work was conducted on a time and material basis.</p>	LS	1.0	\$39,607.00	\$39,607.00	---
2C	<p><b>LOCATION:</b>                      MHSOT009 to SOT009002</p> <p><b>DESCRIPTION (Change/Add):</b>                      Chipping out grout from invert between MH SOT009003 to MH SOT009002</p> <p><b>REASON:</b>                      We encountered grout in the sewer as part of the cleaning process. The contractor was paid to remove the grout using time and material to determine cost. The contractor spent 6.5 hours removing the grout. We used unit rates established in Pipeline Management's Contract No. 5952 for the time and material work.</p>	LS	1.0	\$4,149.00	\$4,149.00	---
2D	<p><b>LOCATION:</b>                      Entire project</p>					

Auth No.	Location-Description-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
	<p><b>DESCRIPTION (Change/Add):</b> Change unit rate work from Additional Grout Port to Chemical Grouting System Setup, Joint.</p> <p><b>REASON:</b> The contractor utilized additional labor to install the additional grout ports than what was originally intended for when the project was bid. The contractor misunderstood the intend of the bid item and undervalued the actual time and effort needed to install the additional grout ports.</p>	EA	43.0	\$1,250.00	\$53,750.00	---
2E	<p><b>LOCATION:</b> Entire project</p> <p><b>DESCRIPTION (Change/Deduct):</b> Remove Item No 23 Additional Grout Ports from scope of work and moved to Item No. 14.</p> <p><b>REASON:</b> The contractor will be paid for work associated with Item No. 23 Additional Grout Ports under Item No. 14. The contractor utilities additional effort to install the additional grout ports than what was intended under Bid Item No. 23.</p>	EA	-43.0	\$1.00	---	\$43.00
Totals					\$114,743.50	\$43.00
Net Increase					\$114,700.50	---

CHANGE ORDER NO. 2

Evergreen Farmington Sanitary Drain Drainage District Board  
For Construction of the S. Evergreen Interceptor Rehabilitation  
Beverly Hills, Birmingham & W. Bloomfield Township  
Oakland, MI

Prepared by: Evangelos Bantios Date: 3/14/2023  
Evangelos Bantios, P.E. - Project Engineer

Recommended by: \_\_\_\_\_ Date: \_\_\_\_\_  
Bradley W. Shepler, P.E. - Hubbell, Roth & Clark, Inc.

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
Joel Brown, P.E. - Chief Engineer

The Contractor agrees to do the work described above and agrees to accept payment in full on the basis indicated.

Accepted by: **David Lusky** Digitally signed by David Lusky  
Date: 2023.03.14 14:30:17  
Pipeline Management Company, LLC -04'00'

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
Sid Lockhart, P.E. - Special Projects Manager

The Contractor is hereby authorized and instructed to do the work described above in accordance with the terms of the Contract.

This Change Order No. 2 was approved by the Drain board on:



**Jim Nash, Oakland County Water Resources Commissioner  
 Evergreen Farmington Sanitary Drain Drainage District  
 8 Mile Road CAP 8 Mile Road Pump Station & SSO Chamber Improvements - Phase 1  
 Southfield  
 Oakland County, Michigan**

Construction Estimate No. 12

February 1, 2023 to February 28, 2023

Department No. : 6010101  
 Fund No. : 58410  
 Project No. : 1-3181

Account No. : 730352  
 Program No. : 149667  
 Activity : FAC  
 Vendor No. : 23191  
 Contract No. : 6628  
 Date of Contract : 2/2/2022  
 Completion Date : 8/13/2027

Contractor :Walsh Construction Company II, LLC  
 3031 W Grand Blvd, Suite 640  
 Detroit, MI 48202

Original Contract Amount:	\$0.00
Previous Change Order Numbers: CO Nos. 1, 2, 3, 4, 5, 6, and 7.	\$50,177,000.25
Change Orders This Estimate Number:	
Total Net Change Orders:	\$50,177,000.25
<u>Adjusted Contract Amount:</u>	<u>\$50,177,000.25</u>
Subtotal To Date: (Sheet 2 of 3 Column 7)	\$1,253,113.42
Less Deductions to Date: (Sheet 2 of 3 Column 7)	\$0.00
Gross Estimate: (Work in Place) <span style="float: right;">2.50%</span>	\$1,253,113.42
Less Amount Reserved: (10% of Gross Estimate)	\$125,311.34
Total Amount Allowed To Date:	\$1,127,802.08
Less Previous Estimates:	\$953,907.45
Net Payment Request To Be Paid To Contractor:	\$173,894.63
Reserve Payment to Contractor	\$0.00
Balance of Contract To Date	\$48,923,886.83
	Accounting Auditor:
Less Previous Transfers To Reserve:	\$105,989.72
<u>Amount of Current Transfer:</u>	<u>\$19,321.63</u>

Prepared by: Charles J. Roarty, Jr. Date: 3/13/2023  
 Charles J. Roarty, Jr., P.E. - NTH Consultants

Recommended by: Joe Siwek Date: 3/14/2023  
 Joe Siwek, P.E. - Consulting Engineer (Fishbeck)

Recommended by: Evangelos Bantios Date: 3/14/2023  
 Evangelos Bantios, P.E. - Project Engineer

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Joel Brown, P.E. - Chief Engineer

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Sid Lockhart, P.E. - Special Project Manager

**JIM NASH** Approved by Board on: \_\_\_\_\_  
**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**

**MEMO TO:** Mr. Jim Nash, Chairman  
of the Drainage Board for the EVERGREEN - FARMINGTON SANITARY DRAIN SYSTEM

**FROM:** Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting

*For Shawn Phelps*

**DATE:** March 28, 2023

**SUBJECT:** Request for Board approval of payment of the following invoices:

Date	Ref No.	Paid To	For	Amount
	TBP	Orchard Hiltz & McCliment Inc	Invoice # 60659 - Contracted Services - 02/25/23	\$ 965.84
	TBP	ADS Environmental Services	Invoice # 35515-0123A - Contracted Services - 01/31/23	48,655.00
	TBP	ADS Environmental Services	Invoice # 35515-0123A -- Credit Memo	(55.40)
	TBP	ADS Environmental Services	Invoice # 35515-0123I - Contracted Services - 01/31/23	2,670.00
			<b>Total</b>	<b>\$ 52,235.44</b>
	TBP	JMK Engineering Inc	Invoice #1441 - Professional Services- 1/01/23 - 01/31/23	\$ 374.00
			<b>Subtotal Project # 1-7028</b>	<b>374.00</b>
	TBP	ADS Environmental Services	Invoice # 35515-0123I - Contracted Services - 01/31/23	\$ 445.00
			<b>Subtotal Project # 1-3655</b>	<b>445.00</b>
	TBP	Clark Hill LLC	Invoice #1292213 - Legal Services - 02/28/23	\$ 76.50
	TBP	JMK Engineering Inc	Invoice #1441 - Professional Services- 1/01/23 - 01/31/23	1,122.00
			<b>Subtotal Project # 1-3181</b>	<b>1,198.50</b>
	TBP	JMK Engineering Inc	Invoice #1441 - Professional Services- 1/01/23 - 01/31/23	\$ 187.00
			<b>Subtotal Project # - 1-3006</b>	<b>187.00</b>
			<b>Total</b>	<b>\$ 54,439.94</b>

**7. Clinton River Water  
Resource Recovery Facility**

## **AGENDA**

### **DRAINAGE BOARD FOR THE CLINTON RIVER WATER RESOURCE RECOVERY FACILITY**

March 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of February 28, 2023
3. Public Comments
4. Present Memorandum from Razik Alsaigh, P.E., Civil Engineer III, dated March 28, 2023, requesting the Board approve the contract between the Drainage District and Ingersoll-Rand Industrial US Inc. in the amount of \$37,973.41 for air compressor units for three years of maintenance and as-needed repair and authorize the Chairperson to sign the contract
5. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$11,152,790.00
6. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund from the Maintenance Fund in the amount of \$800,447.80
7. Other business
8. Approve pro rata payment to Drainage Board members
9. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE CLINTON RIVER WATER RESOURCE RECOVERY FACILITY**

February 28, 2023

A meeting of the Drainage Board for the Clinton River Water Resource Recovery Facility was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 28<sup>th</sup> day of February 2023.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

David Woodward, Chairperson of the Oakland County Board of Commissioners

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: None.

Minutes of the meeting held January 24, 2023, were presented for consideration. It was moved by Markham, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A memorandum from Razik Alsaigh, P.E., Operations Projects Engineer, dated February 28, 2023, requesting the Board approve the proposed projects and amended project budgets as identified on the tables (attached) using funds from the Major Maintenance and Capital Improvement reserves was presented. It was moved by Markham, supported by Woodward, to approve the proposed projects and amended project budgets as identified on the tables (attached) using funds from the Major Maintenance and Capital Improvement reserves as presented.

ADOPTED: Yeas - 3  
Nays - 0

A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund from the Maintenance Fund in the amount of \$1,320,720.83 (as attached) was presented. It was moved by Markham, supported by Woodward, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund from the Maintenance Fund in the amount of \$1,320,720.83.

ADOPTED: Yeas - 3  
Nays - 0

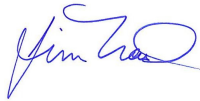
A memorandum from Sidney Lockhart, P.E., Special Projects Manager and Gary Nigro, P.E., Manager, dated February 28, 2023, requesting the Board award the Optimization Project Construction Manager at Risk contract with Walsh Construction Group, pending an agreeable cost negotiation with an amount not-to-exceed \$839,187 and to authorize the Chairperson to execute the Construction Manager Agreement once completed was presented. It was moved by Markham, supported by Woodward to award the Optimization Project Construction Manager at Risk contract with Walsh Construction Group, pending an agreeable cost negotiation with an amount not-to-exceed \$839,187 and to authorize the Chairperson to execute the Construction Manager Agreement once completed as presented.

ADOPTED: Yeas - 3  
Nays - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham and Mr. Woodward.

ADOPTED: Yeas - 3  
Nays - 0

There being no further business, the meeting was adjourned.



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Jim Nash, Chairperson

STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Clinton River Water Resource Recovery Facility, Oakland County, Michigan, held on the 28<sup>th</sup> day of February 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Clinton River Water Resource Recovery Facility.



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Jim Nash, Chairperson

Dated: February 28, 2023

**OAKLAND COUNTY  
WATER RESOURCES COMMISSIONER****MEMORANDUM**

**TO:** Jim Nash, Chairman  
Drainage Board for the Clinton River Water Resource Recovery Facility Drainage District

**FROM:** Razik Alsaigh, P.E., Civil Engineer III

**SUBJECT:** Biosolids Building Air Compressors Units Preventive Maintenance & Repair Agreement with Ingersoll-Rand Industrial US Inc.

**DATE:** March 28, 2022

The Clinton River Water Resource Recovery Facility recently constructed a new biosolids process to handle solids generated by the plant. This new process includes two air compressors units, which reside in the biosolids building. The plant had some issues with some aspects of the units after the expiration of manufacture warranty period. After reviewing and assessing the air compressors maintenance and repair needs and discussing it with Ingersoll Rand (the equipment manufacturer), plant staff feels that it would be beneficial to have Ingersoll Rand perform the preventive maintenance needs and take responsibility for needed repairs to the air compressor units for the next three years. Accordingly, it is recommended to enter into a contract with Ingersoll Rand to perform the needed preventive maintenance and repairs on our two air compressors units for the next three years in the amount of \$37,973.41.

**Requested Action:** Approve the contract between the Drainage District and Ingersoll-Rand Industrial US Inc. in the amount of \$37,973.41 for Air Compressors units for three years of maintenance and as-needed repair and authorize the Chairperson to sign the contract.



## PackageCARE

**Clinton River  
Water Resource  
Recovery Facility  
PONTIAC, MI**



**PackageCARE™**

*We Protect You*



## PackageCARE Agreement

Ingersoll-Rand Industrial U.S., Inc., a Delaware corporation, 525 Harbour Place, Davidson, NC 28036 (hereinafter "Company") and Clinton River Water Resource Recovery Facility, 155 N. Opdyke Road, PONTIAC, MI, 48342, (hereinafter "Customer") agree to this PackageCARE Agreement (this "Agreement") as follows:

- SCOPE.** This Agreement is for the maintenance service of the equipment set forth below (the "Equipment") for the hours of operation during the term of this Agreement (the "Hours During Contract"), at the location set forth in Exhibit D.

EQ#	Manufacturer	Model	Serial Number	Start Date	Hours/YR	Current Hours
1	IR	HLA120 w/EMS	WCH1031975	11/08/2018	8000	16040
2	IR	FA230IH	PWW-PF1	11/08/2018	8000	16040
3	IR	FA230IG	PWW-AF1	11/08/2018	8000	16040
4	IR	PSG-15	PWW-OWS1	11/08/2018	8000	16040
5	IR	OPTION ITEM, PRESSURE 15HP 200PSIG 60HZ TEFV	CBV580111	08/30/2018	4000	8350
6	IR	OPTION ITEM, PRESSURE 15HP 200PSIG 60HZ TEFV	CBV580112	09/22/2019	4000	7690

- SERVICE.** Company's service program will be performed in accordance with a Company maintenance schedule specific to the Equipment set forth above. The services will include examination, lubrication, adjustment, and repair/replacement of covered components, as further detailed on Exhibit A (the "Services"). During the Term of this Agreement, Company may either repair or replace a piece of Equipment, at its option, with a like piece of equipment having at least the same functionality. In the case of replacement of Equipment, Company shall amend the Equipment list set forth above and provide Customer with an Asset Swap Addendum to this Agreement, for execution within a reasonable period of time after Equipment replacement. Title to such replacement Equipment shall be transferred to Customer, and Customer agrees to pass title of the replaced Equipment to Company with free and clear title.
- PRODUCTS.** The Services to be performed on the Equipment are set forth on Exhibit A.
- CUSTOMER SITE REQUIREMENTS.** In order to receive the Services, Customer must provide and adhere to the site requirements for the Equipment set forth on Exhibit A.
- HOURS OF SERVICE.** Unless stated otherwise in Exhibit B, Company will perform the Services during regular working hours, Monday through Friday, 7:00am through 5:00pm, local time, excluding Company recognized holidays ("Regular Working Hours"). Services include calls for emergency adjustments during Regular Working Hours. A request for Service will be considered an "Emergency Adjustment Call" if it is to correct a malfunction or adjust the Equipment and requires immediate attention and is not caused by misuse, abuse, maintenance by anyone other than Company Technical Services Representatives, or other factors beyond Company's control. If Customer authorizes Service outside of Regular Working Hours, Customer will be invoiced at Company's then current premium time national billing rates, plus materials not covered by this Agreement. All other services, not covered hereunder, will be billed at Company's then current national billing rate.
- TERM.** This Agreement commences upon approval by Company and execution of this Agreement by Customer on the "Effective Date" noted in the signature block, and will continue thereafter for a period of 3 year(s) (the "Term").
- AGREEMENT PRICE.** In consideration of the Services provided hereunder, Customer agrees to pay Company quarterly, totaling \$12,285.55 in the aggregate for Year 1. For each year thereafter, the total amount is reflected in the table below. If additional Services are set forth in Exhibit B, Customer agrees to pay Company a down payment of \$0.00 in the first invoice of Year 1 of this Agreement.

Term Year	Year 1	Year 2	Year 3
Annual Price	\$12,285.55	\$12,654.12	\$13,033.74

Customer Initials :

Customer agrees to pay, as an addition to the price herein, the amount of any current or future sales, use, excise or other tax applicable to the Services provided hereunder. Company will invoice Customer, at the beginning of each payment period, in the frequency in accordance with the payment installments set forth above. Customer will pay all invoices within thirty (30) days from the date of invoice.

The prices set forth above are based on the current location, use, site environmental conditions and Equipment condition upon the Effective Date hereof as set forth in Exhibit D. Should any of these factors change during the Term, the prices are subject to adjustment by Company.

8. **PRICE ADJUSTMENTS.** If Customer's use of the Equipment exceeds the annual hours, calculated as Hours During Contract divided by the years in the Term ("Annual Hours"), and continues to do so for a period of six (6) months, the Agreement Price herein is subject to increase by Company. Company will use the most current pricing methodology to determine the applicable price increase to the Agreement Price based on the new Annual Hours utilization rate of the Equipment.
9. **ENTIRE AGREEMENT AND AMENDMENT.** This Agreement, together with Exhibits A, B, C and D or supplements specifically referenced in this Agreement, constitutes the entire Agreement between the parties hereto and supersedes all previous communications, representations, or agreements, either oral or written, between the parties hereto, including on any purchase order, with respect to the subject matter hereof. No agreement or understanding varying or expanding this Agreement will be binding upon the parties hereto unless it is in writing and signed by a duly authorized representative of each party.

IN WITNESS WHEREOF, each of the parties has caused this Agreement to be executed, by its duly authorized representative. The individual executing below on behalf of Customer warrants that it is an authorized representative and has the ability to bind Customer to the terms of this Agreement. Company is not bound by the terms of this Agreement until its authorized representative has executed this Agreement in the signature block provided below.

**REMAINDER OF PAGE INTENTIONALLY BLANK  
SIGNATURES ON FOLLOWING PAGE**

**Customer Initials :**



**Clinton River Water  
Resource Recovery  
Facility**

**INGERSOLL-RAND INDUSTRIAL U.S., INC.**

**Authorized Representative  
Signature** \_\_\_\_\_

**Authorized  
Representative  
Signature** \_\_\_\_\_

**Name** \_\_\_\_\_

**Name** \_\_\_\_\_

**Title** \_\_\_\_\_

**Title** \_\_\_\_\_

**Effective Date** \_\_\_\_\_

**Date** \_\_\_\_\_

**P.O #** \_\_\_\_\_

**CONTRACT MANAGEMENT USE ONLY (Not valid until signed by Company Contract Management Team)**

**By (signature):**

**Title:**

**Name (Printed):**

**Date:**

A0.14 B0.04 C0.04 D0.1  
E0.34 F0.34 PC110

**REMAINDER OF PAGE INTENTIONALLY BLANK**

**Customer Initials :**

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**OPERATIONS AND MAINTENANCE DIVISION**  
**MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE**  
**Clinton River WRRF Drain**

Assessment for current fund balance and the following year of expenses: July 1, 2023 through June 30, 2024

Last Assessment (\$):	\$	10,594,970.00
Date last assessment approved:		3/22/22
Unreserved and Undesignated Fund Balance as of 1/31/23	\$	3,060,235.70
Capital Improvement Reserves as of 1/31/23		3,209,837.81
Major Maintenance Reserves as of 1/31/23		(1,444,469.54)
Emergency Reserves as of 1/31/23		831,523.96
Funds Available as of February 1, 2023	<u>\$</u>	<u>5,657,127.93</u>

**OPERATIONS, MAINTENANCE & REPLACEMENT BUDGET for July 1, 2023 through June 30, 2024**

**Operating Expenses**

Sewage Treatment	\$	7,643,800.00
Sewer System Maintenance	\$	130,740.00
Sewer System Engineering	\$	240,010.00
Water Maintenance Unit	\$	80.00
Septage Unloading Facility	\$	10,510.00
Systems Control Unit	\$	18,990.00
IPP	\$	92,320.00
Laboratory	\$	399,930.00
Mapping Unit	\$	1,290.00
General and Administrative	\$	1,012,260.00
<b>Total Operating Expenses</b>	<u>\$</u>	<u>9,549,930.00</u>

**Revenue Requirements**

Operating Expense	\$	9,549,930.00
Major Maintenance	\$	424,360.00
Emergency Maintenance	\$	200,000.00
Capital	\$	5,365,000.00
<b>Total Revenue Requirements</b>	<u>\$</u>	<u>15,539,290.00</u>
Non-Rate Revenue	\$	(4,386,500.00)
<b>Rate Required Revenue</b>	<u>\$</u>	<u>11,152,790.00</u>

**Recommended July 1, 2023 through June 30, 2024 assessment:**

Total Anticipated Expenses for July 1, 2023 - June 30, 2024	\$	11,152,790.00
Total Anticipated Funds Needed	<u>\$</u>	<u>11,152,790.00</u>

**TOTAL RECOMMENDED ASSESSMENT** **\$ 11,152,790.00**

Billings are to be at the end of the calendar quarters.

Prepared by: Leo Lease Date: 3/15/2023  
 Leo Lease - Senior Financial Analyst

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Steve Korth - Manager, Water Resources Commissioner

## SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE OF THE CLINTON RIVER WRRF DRAIN

Public Corporation	Percentage of Apportionment	Total Amount of Assessment
City of Pontiac	54.800%	\$ 6,111,728.92
Clinton-Oakland SDS	45.200%	\$ 5,041,061.08
<b>Total</b>	<b>100.00000%</b>	<b>\$ 11,152,790.00</b>

**Assessment Due Date:** To be collected on the following quarters: 9/30/2023, 12/31/2023, 3/31/2024 and 6/30/2024.

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Clinton River WRRF Drain for the period July 1, 2023 through June 30, 2024 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
 Jim Nash  
 Chairman of the Drainage Board for the Clinton River WRRF Drain

The foregoing Special Assessment Roll for the maintenance of the Clinton River WRRF Drain was approved by the Drainage Board on \_\_\_\_\_.

\_\_\_\_\_  
 Jim Nash  
 Chairman of the Drainage Board for the Clinton River WRRF Drain

**MEMO TO:** Mr. Jim Nash, Chairman  
of the Drainage Board for the CLINTON RIVER WATER RESOURCE RECOVERY FACILITY DRAIN - (Maintenance)

**FROM:** Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting *W For Shawn Phelps*

**DATE:** March 28, 2023

**SUBJECT:** Request for Approval of Invoices

The following is a detail of charges paid from the Drain Revolving Fund and Invoices

Payable To	Ref No.	For	Amount
Biotech Agronomics Inc	V # SINV00169243	Invoice # 3296 - Land Application	\$ 86,935.95
Cambi Inc	V # SINV00165875	Invoice # 609810-SP-019 - Material and Supplies	11,263.31
CleanNet of Greater Michigan, Inc	V # SINV00165877	Invoice # DET0104381 - Contracted Services - March 2023	1,601.38
Davis & Davis Law Office PLC	V # SINV00164607	Invoice # OCWRC-02-15-23 - Legal Services - 09/26/22 - 02/15/23	11,276.25
D3W Industrials	V # SINV00165878	Invoice # 3742 - Material and Supplies	5,720.00
D J Conley	TBP	Invoice # SI-49020-1 - Contracted Services	1,350.00
Haviland Products Company	V # SINV00165387	Invoice # 459608 - Chemical Treatment	5,853.00
Haviland Products Company	V # SINV00165398	Invoice # 459762 - Chemical Treatment - Credit Memo	(800.00)
Haviland Products Company	V # SINV00169270	Invoice # 464278 - Chemical Treatment	2,974.00
Haviland Products Company	V # SINV00169275	Invoice # 464579 - Chemical Treatment - Credit Memo	(2,400.00)
Jacobs Consultants Inc	TBP	Invoice # C6A19600-11 - Engineering Services	15,071.38
Jones Chemicals Inc	TBP	Invoice # 905060 - Chemical Treatment	6,257.30
Jones Chemicals Inc	V # SINV00165891	Invoice # 907770 - Chemical Treatment	6,057.04
PVS Technologies Inc	V # SINV00165879	Invoice # 328573 - Chemical Treatment	3,712.56
PVS Technologies Inc	V # SINV00165881	Invoice # 328614 - Chemical Treatment	2,791.86
PVS Technologies Inc	V # SINV00169251	Invoice # 329476 - Chemical Treatment	5,133.60
Tetra Tech Inc	V # SINV00165884	Invoice # 52025366 - Contracted Services	1,290.00
		<b>Subtotal \$</b>	<b>164,087.63</b>
Jacobs Consultants, Inc	V # SINV00168255	Invoice # C6A21700-02 - Engineering Survey - Proj # 1-7239	\$ 525,364.65
JMK Engineering Inc	TBP	Invoice # 1441 - Professional Services - 01/31/23 - Proj # 1-7239	6,451.50
		<b>Subtotal - Project 1-7239 \$</b>	<b>531,816.15</b>
Fishbeck	V # SINV00168722	Invoice # 420571 - Engineering Services - 02/17/23 - Proj # 1-3042	\$ 1,623.00
		<b>Subtotal - Project 1-3042 \$</b>	<b>1,623.00</b>
Fishbeck	V # SINV00168724	Invoice # 420754 - Engineering Services - 02/17/23 - Proj # 1-3492	\$ 928.00
		<b>Subtotal - Project 1-3492 \$</b>	<b>928.00</b>
Hubbell Roth Clark Inc	TBP	Invoice # 0204173 - Engineering Services - 02/04/23 - Proj # 1-3679	\$ 388.02
		<b>Subtotal - Project 1-3679 \$</b>	<b>388.02</b>
Dickinson Wright PLLC	TBP	Invoice # 1777950 - Legal Services - 01/31/23 - Proj # 1-7239	\$ 16,590.00
		<b>Subtotal - Project 1-7239 \$</b>	<b>16,590.00</b>
Doetsch Environmental Services	TBP	Invoice # 72260 - Contracted Services - Proj 1-3469	\$ 85,015.00
		<b>Subtotal - Project 1-3469 \$</b>	<b>85,015.00</b>
		<b>Total \$</b>	<b>800,447.80</b>

**8. City of Pontiac**  
**Wastewater Treatment Facility**



## **AGENDA**

### **DRAINAGE BOARD FOR THE CITY OF PONTIAC WASTEWATER TREATMENT FACILITY**

March 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of January 25, 2022
3. Public Comments
4. Present Debt Assessment Recommendation and Special Assessment Roll for Debt in the amount of \$2,615,390.00
5. Other business
6. Approve pro rata payment to Drainage Board Members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE PONTIAC WASTEWATER TREATMENT FACILITY**

January 25, 2022

A meeting of the Drainage Board for the Pontiac Wastewater Treatment Facility was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 25<sup>th</sup> day of January 2022.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

David Woodward, Chairperson of the Oakland County Board of Commissioners

ABSENT: None.

Minutes of the meeting held November 26, 2019 were presented for consideration. It was moved by Markham, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

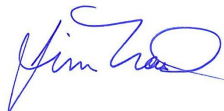
A memorandum from Razik Alsaigh, Civil Engineer III, dated January 25, 2022, requesting the Board to authorize the transfer of \$500,000 from the Drainage District to the Clinton River Water Resource Recovery Facility was presented. It was moved by Markham, supported by Woodward, to authorize the transfer of \$500,000 from the Drainage District to the Clinton River Water Resource Recovery Facility as presented.

ADOPTED: Yeas - 3  
Nays - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham and Mr. Woodward

ADOPTED: Yeas - 3  
Nays - 0

There being no further business, the meeting was adjourned.




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Jim Nash, Chairperson

STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Pontiac Wastewater Treatment Facility, Oakland County, Michigan, held on the 25<sup>th</sup> day of January 2022, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Pontiac Wastewater Treatment Facility Drainage District.



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Jim Nash, Chairperson

Dated: January 25, 2022

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER  
OPERATIONS AND MAINTENANCE DIVISION  
DEBT ASSESSMENT RECOMMENDATION FOR THE  
Pontiac WWTF Drain**

Assessment for current fund balance and the following year of expenses: July 1, 2023 through June 30, 2024

	<u>Debt Assessment</u>
Last Assessment (\$):	\$ 2,588,133.00
Date last assessment approved:	3/22/22
Unreserved and Undesignated Fund Balance as of 1/31/2023	\$ (484,396.05)
Capital Improvement Reserves as of 1/31/2023	\$ 546,666.76
Major Maintenance Reserves as of 1/31/2023	\$ (16,875.61)
Emergency Maintenance as of 1/31/2023	\$ -
Funds Available as of February 1, 2023	<u>\$ 45,395.10</u>

**DEBT SERVICE REQUIREMENT for July 1, 2023 through June 30, 2024**

**Revenue Requirements**

Debt Service	\$ 4,772,610.00
<b>Total Revenue Requirements</b>	<b>\$ 4,772,610.00</b>
Non-Rate Revenue	\$ -
<b>Rate Required Revenue</b>	<b>\$ 4,772,610.00</b>

**Recommended July 1, 2023 through June 30, 2024 assessment:**

Total Anticipated Expenses for July 1, 2022 - June 30, 2023	\$ 4,772,610.00
Revenue from COSDS Contract	\$ (2,157,220.00)
Total Anticipated Funds Needed	<u>\$ 2,615,390.00</u>

**TOTAL RECOMMENDED DEBT ASSESSMENT** **\$ 2,615,390.00**

Billings are to be at the end of the calendar quarters.

Prepared by: Leo Lease  
Leo Lease - Senior Financial Analyst

Date: 3/15/2023

Approved by: \_\_\_\_\_  
Steve Korth - Manager, Water Resources Commissioner

Date: \_\_\_\_\_

# SPECIAL ASSESSMENT ROLL FOR THE DEBT OF THE PONTIAC WWTF DRAIN

Public Corporation	*Percentage of Apportionment	Total Amount of Debt Assessment
City of Pontiac	100.00%	\$ 2,615,390.00
<b>Total</b>	<b>100.00000%</b>	<b>\$ 2,615,390.00</b>

\*Apportionment based on Final Order of Apportionment dated July 17, 2012.

**Assessment Due Date for the Debt:** To be paid as the debt invoices are invoiced to Oakland County.

I hereby certify that I have prepared the Special Assessment Roll for the Debt of the Pontiac WWTF Drain for the period July 1, 2023 through June 30, 2024 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

---

Jim Nash  
Chairman of the Drainage Board for the Pontiac WWTF Drain

The foregoing Special Assessment Roll for the maintenance of the Pontiac WWTF Drain was approved by the Drainage Board on \_\_\_\_\_ .

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Jim Nash  
Chairman of the Drainage Board for the Pontiac WWTF Drain

## **9. Devonshire Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE DEVONSHIRE DRAIN**

March 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of February 25, 2020
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$8,100
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE DEVONSHIRE DRAIN**

February 25, 2020

A meeting of the Drainage Board for the Devonshire Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 11:30 a.m. on the 25<sup>th</sup> day of February, 2020.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Gwen Markham, Vice Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: David Woodward, Chairperson of the Oakland County Board of Commissioners

Helaine Zack, Chairperson of the Finance Committee, Oakland County Board of Commissioners

Minutes of the meeting held February 24, 2015 were presented for consideration. It was moved by Markham, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 2  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$7,500 for the Devonshire Drain (as attached) were presented. It was moved by Markham, supported by Nash, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$7,500 as presented.

ADOPTED: Yeas - 2  
Nays - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ADOPTED: Yeas - 2  
Nays - 0

There being no further business, the meeting was adjourned.

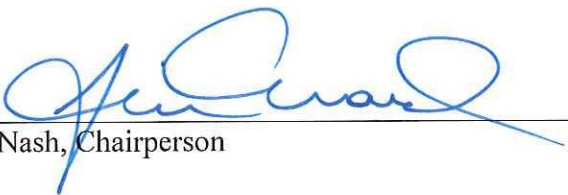
  
\_\_\_\_\_  
Jim Nash, Chairperson



STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board of the Devonshire Drain, Oakland County, Michigan, held on the 25<sup>th</sup> day of February, 2020, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board of the Devonshire Drain Drainage District.

  
\_\_\_\_\_  
Jim Nash, Chairperson

Dated: March 9, 2020

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE**  
**Devonshire Drain**

Assessment for estimated maintenance expenses for fiscal years: 2023 through 2025

Date last assessment approved:	02/25/20	
Last Assessment:		\$7,500
Current Available Cash*:		\$963

Expenditure History:	Fiscal Year	Amount
	2016	\$835
	2017	\$767
	2018	\$2,744
	2019	\$2,208
	2020	\$1,813
	2021	\$2,422
	2022	\$2,956

Estimated Expenditures:	Year	Amount
	2023	\$2,700
	2024	\$2,700
	2025	\$2,700
	<b>Total</b>	<b>\$8,100</b>

**Recommended Assessment:**

Current Cash Deficit		\$0
Total Anticipated Expenses 2023 - 2025		\$8,100

**TOTAL RECOMMENDED ASSESSMENT \$8,100**

Prepared by: Michael R. McMahon Date: 3/28/2023  
Michael R. McMahon, P.E. - Chief Engineer

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
Gary Nigro, P.E. - Manager

Note: Current Available Cash as of January 31, 2023, Fiscal Services Division Report.  
\*(less \$1,200 previously collected for special maintenance expenses, but not yet spent)

**SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE  
OF THE DEVONSHIRE DRAIN**

<b>Public Corporation</b>	<b>*Percentage of Apportionment</b>	<b>Total Amount of Assessment</b>	<b>Payment #1</b>	<b>Payment #2</b>	<b>Payment #3</b>
Charter Township of Bloomfield	65.28106%	\$ 5,287.77	\$ 5,287.77	-	-
County of Oakland	11.76894%	\$ 953.28	\$ 953.28	-	-
State of Michigan	22.95000%	\$ 1,858.95	\$ 1,858.95	-	-
<b>Total</b>	<b>100.00000%</b>	<b>\$ 8,100.00</b>	<b>\$ 8,100.00</b>	<b>\$ -</b>	<b>\$ -</b>

\*Apportionment based on Final Order of Apportionment dated 4/1/1965.

Assessment Payment Due Date(s): Payment #1 04/30/2023

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Devonshire Drain for the fiscal years 2023- 2025 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Devonshire Drain

The foregoing Special Assessment Roll for the maintenance of the Devonshire Drain was approved by the Drainage Board on \_\_\_\_\_ .

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Devonshire Drain

## **10. Hayward Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE HAYWARD DRAIN**

March 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of December 15, 2020
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$7,909
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE HAYWARD DRAIN**

December 15, 2020

A meeting of the Drainage Board for the Hayward Drain was held at 2:00 p.m. on the 15<sup>th</sup> of December, 2020. The meeting was conducted electronically via GoToMeeting in accordance with PA 228 of 2020.

The meeting was called to order by the Chairperson. The Board indicated where they were physically located at the time of the meeting as follows:

PRESENT: Jim Nash, Oakland County Water Resources Commissioner, participating from Farmington Hills, Michigan.

David Woodward, Chairperson of the Oakland County Board of Commissioners, participating from Royal Oak, Michigan.

Helaine Zack, Chairperson of the Finance Committee, Oakland County Board of Commissioners, participating from Huntington Woods, Michigan.

Minutes of the meeting held November 17, 2020 were presented for consideration. It was moved by Zack, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A Memorandum from Jeffrey Parrott, Right of Way Supervisor, recommending the Board approve the Easement Use Agreement and authorize the Chairperson to execute it to accommodate the request from Bloomfield Capital Group, LLC was presented. It was moved by Zack, supported by Woodward, that the Board approve the Easement Use Agreement and authorize the Chairperson to execute it to accommodate the request from Bloomfield Capital Group, LLC as presented.

ADOPTED: Yeas - 3  
Nays - 0

It was moved by Nash, supported by Zack, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Zack and Mr. Woodward.

ADOPTED: Yeas - 3  
Nays - 0

There being no further business, the meeting was adjourned.

A handwritten signature in blue ink, appearing to read "Jim Nash". The signature is stylized with a large, looping "N" and a trailing flourish.

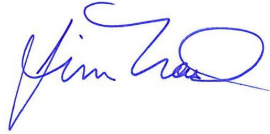
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Jim Nash, Chairperson

STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board of the Hayward Drain, Oakland County, Michigan, held on the 15<sup>th</sup> day of December, 2020, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Hayward Drain Drainage District.



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Jim Nash, Chairperson

Dated: December 30, 2020



**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE**  
**Hayward Drain**

Assessment for current fund deficit and estimated maintenance expenses for fiscal years: 2023 through 2025

Date last assessment approved:	11/17/20	
Last Assessment:		\$5,896
Current Available Cash:		(\$1,009)

Expenditure History:	Fiscal Year	Amount
	2016	\$1,006
	2017	\$1,528
	2018	\$1,484
	2019	\$1,398
	2020	\$1,648
	2021	\$5,391
	2022	\$1,937

Estimated Expenditures:	Year	Amount
	2023	\$2,300
	2024	\$2,300
	2025	\$2,300
	<b>Total</b>	<b>\$6,900</b>

**Recommended Assessment:**

Current Cash Deficit	\$1,009
Total Anticipated Expenses 2023 - 2025	\$6,900
<b>TOTAL RECOMMENDED ASSESSMENT</b>	<b>\$7,909</b>

Prepared by: Michael R. McMahon Date: 3/28/2023  
Michael R. McMahon, P.E. - Chief Engineer

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
Gary Nigro, P.E. - Manager

Note: Current Available Cash as of January 31, 2023, Fiscal Services Division Report.

**SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE  
OF THE HAYWARD DRAIN**

<b>Public Corporation</b>	<b>*Percentage of Apportionment</b>	<b>Total Amount of Assessment</b>	<b>Payment #1</b>	<b>Payment #2</b>	<b>Payment #3</b>
Charter Township of Bloomfield	84.071%	\$ 6,649.18	\$ 6,649.18	-	-
County of Oakland	15.929%	\$ 1,259.82	\$ 1,259.82	-	-
<b>Total</b>	<b>100.000%</b>	<b>\$ 7,909.00</b>	<b>\$ 7,909.00</b>	<b>\$ -</b>	<b>\$ -</b>

\*Apportionment based on Final Order of Apportionment dated 7/13/1977.

Assessment Payment Due Date(s): Payment #1 04/30/2023

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Hayward Drain for the fiscal years 2023- 2025 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Hayward Drain

The foregoing Special Assessment Roll for the maintenance of the Hayward Drain was approved by the Drainage Board on \_\_\_\_\_.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Hayward Drain

## **11. Murphy Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE MURPHY DRAIN**

March 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of February 25, 2020
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$6,000
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE MURPHY DRAIN**

February 25, 2020

A meeting of the Drainage Board for the Murphy Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 11:30 a.m. on the 25<sup>th</sup> day of February, 2020.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Gwen Markham, Vice Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: David Woodward, Chairperson of the Oakland County Board of Commissioners

Helaine Zack, Chairperson of the Finance Committee, Oakland County Board of Commissioners

Minutes of the meeting held February 28, 2017 were presented for consideration. It was moved by Markham, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 2  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$8,588 for the Murphy Drain (as attached) were presented. It was moved by Markham, supported by Nash, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$8,588 as presented.

ADOPTED: Yeas - 2  
Nays - 0

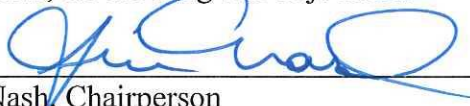
A request for reimbursement of the Drain Revolving Fund in the amount of \$169.98 (as attached) was presented. It was moved by Markham, supported by Nash, that the Drain Revolving Fund be reimbursed in the amount of \$169.98.

ADOPTED: Yeas - 2  
Nays - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ADOPTED: Yeas - 2  
Nays - 0

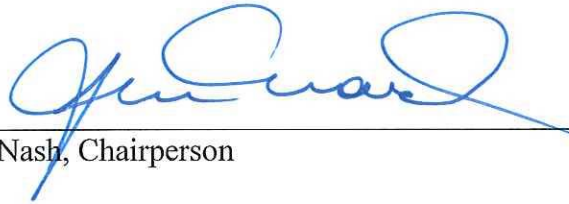
There being no further business, the meeting was adjourned.

  
\_\_\_\_\_  
Jim Nash, Chairperson

STATE OF MICHIGAN            )  
  )SS.  
COUNTY OF OAKLAND        )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board of the Murphy Drain, Oakland County, Michigan, held on the 25<sup>th</sup> day of February, 2020, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board of the Murphy Drain Drainage District.



---

Jim Nash, Chairperson

Dated: March   9  , 2020

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE**  
**Murphy Drain**

Assessment for estimated maintenance expenses for fiscal years: 2023 through 2025

Date last assessment approved:	02/25/20	
Last Assessment:		\$8,588
Current Available Cash*:		\$1,069

Expenditure History:	Fiscal Year	Amount
	2016	\$890
	2017	\$1,743
	2018	\$1,466
	2019	\$2,004
	2020	\$1,758
	2021	\$1,261
	2022	\$1,702

Estimated Expenditures:	Year	Amount
	2023	\$2,000
	2024	\$2,000
	2025	\$2,000
	<b>Total</b>	<b>\$6,000</b>

**Recommended Assessment:**

Current Cash Deficit		\$0
Total Anticipated Expenses 2023 - 2025		\$6,000

**TOTAL RECOMMENDED ASSESSMENT** **\$6,000**

Prepared by: Michael R. McMahon Date: 3/28/2023  
 Michael R. McMahon, P.E. - Chief Engineer

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Gary Nigro, P.E. - Manager

Note: Current Available Cash as of January 31, 2023, Fiscal Services Division Report.  
 \*(less \$2,500 previously collected for special maintenance expenses, but not yet spent)



**SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE  
OF THE MURPHY DRAIN**

<b>Public Corporation</b>	<b>*Percentage of Apportionment</b>	<b>Total Amount of Assessment</b>	<b>Payment #1</b>	<b>Payment #2</b>	<b>Payment #3</b>
Charter Township of Bloomfield	50.467%	\$ 3,028.02	\$ 3,028.02	-	-
City of Pontiac	41.943%	\$ 2,516.58	\$ 2,516.58	-	-
County of Oakland	7.590%	\$ 455.40	\$ 455.40	-	-
<b>Total</b>	<b>100.000%</b>	<b>\$ 6,000.00</b>	<b>\$ 6,000.00</b>	<b>\$ -</b>	<b>\$ -</b>

\*Apportionment based on Final Order of Apportionment dated 8/10/1966.

Assessment Payment Due Date(s): Payment #1 04/30/2023

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Murphy Drain for the fiscal years 2023- 2025 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Murphy Drain

The foregoing Special Assessment Roll for the maintenance of the Murphy Drain was approved by the Drainage Board on \_\_\_\_\_.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Murphy Drain

## **12. Ballard Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE BALLARD DRAIN**

March 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of June 23, 2020
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$9,000
5. Other business
6. Approve pro rata payment to Drainage Board Members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE BALLARD DRAIN**

June 23, 2020

A meeting of the Drainage Board for the Ballard Drain was held at 2:00 p.m. on the 23<sup>rd</sup> of June, 2020. The meeting was conducted via GoToMeeting in accordance with the Governor's Executive Order 2020-75 due to the ongoing COVID-19 pandemic. Commissioner Nash read a brief statement regarding the current health crisis and its impact on the Chapter 20 meetings, which can be found in its entirety under "Drainage District Policy".

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

David Woodward, Chairperson of the Oakland County Board of Commissioners

Helaine Zack, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: None

Minutes of the meeting held June 19, 2012 were presented for consideration. It was moved by Zack, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

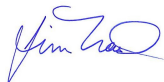
A Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$23,134 for the Ballard Drain (as attached) were presented. It was moved by Zack, supported by Woodward, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$23,134 as presented.

ADOPTED: Yeas - 3  
Nays - 0

It was moved by Nash, supported by Zack, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Zack and Mr. Woodward.

ADOPTED: Yeas - 3  
Nays - 0

There being no further business, the meeting was adjourned.



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Jim Nash, Chairperson

STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board of the Ballard Drain, Oakland County, Michigan, held on the 23<sup>rd</sup> day of June, 2020, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Ballard Drain Drainage District.



---

Jim Nash, Chairperson

Dated: July 13, 2020

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE**  
**Ballard Drain**

Assessment for estimated maintenance expenses for fiscal years: 2023 through 2025

Date last assessment approved:	06/23/20	
Last Assessment:		\$23,134
Current Available Cash:		\$1,152

Expenditure History:	Fiscal Year	Amount
	2016	\$1,643
	2017	\$2,054
	2018	\$2,755
	2019	\$2,998
	2020	\$3,194
	2021	\$2,481
	2022	\$2,198

Estimated Expenditures:	Year	Amount
	2023	\$3,000
	2024	\$3,000
	2025	\$3,000
	<b>Total</b>	<b>\$9,000</b>

**Recommended Assessment:**

Current Cash Deficit	\$0
Total Anticipated Expenses 2023 - 2025	\$9,000

**TOTAL RECOMMENDED ASSESSMENT \$9,000**

Prepared by: Michael R. McMahon Date: 3/28/2023  
Michael R. McMahon, P.E. - Chief Engineer

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
Gary Nigro, P.E. - Manager

Note: Current Available Cash as of January 31, 2023, Fiscal Services Division Report.

**SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE  
OF THE BALLARD DRAIN**

<b>Public Corporation</b>	<b>*Percentage of Apportionment</b>	<b>Total Amount of Assessment</b>	<b>Payment #1</b>	<b>Payment #2</b>	<b>Payment #3</b>
Charter Township of Orion	83.87771%	\$ 7,548.99	\$ 7,548.99	-	-
County of Oakland	16.12229%	\$ 1,451.01	\$ 1,451.01	-	-
<b>Total</b>	<b>100.0000%</b>	<b>\$ 9,000.00</b>	<b>\$ 9,000.00</b>	<b>\$ -</b>	<b>\$ -</b>

\*Apportionment based on Final Order of Apportionment dated 3/9/1967.

Assessment Payment Due Date(s): Payment #1 04/30/2023

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Ballard Drain for the fiscal years 2023- 2025 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Ballard Drain

The foregoing Special Assessment Roll for the maintenance of the Ballard Drain was approved by the Drainage Board on \_\_\_\_\_.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Ballard Drain

## **13. Osgood Drain**



## **AGENDA**

### **DRAINAGE BOARD FOR THE OSGOOD DRAIN**

March 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of June 23, 2020
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$7,200
5. Other business
6. Approve pro rata payment to Drainage Board Members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE OSGOOD DRAIN**

June 23, 2020

A meeting of the Drainage Board for the Osgood Drain was held at 2:00 p.m. on the 23<sup>rd</sup> of June, 2020. The meeting was conducted via GoToMeeting in accordance with the Governor’s Executive Order 2020-75 due to the ongoing COVID-19 pandemic. Commissioner Nash read a brief statement regarding the current health crisis and its impact on the Chapter 20 meetings, which can be found in its entirety under “Drainage District Policy”.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

David Woodward, Chairperson of the Oakland County Board of Commissioners

Helaine Zack, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: None

Minutes of the meeting held May 18, 2010 were presented for consideration. It was moved by Zack, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$17,158 for the Osgood Drain (as attached) were presented. It was moved by Zack, supported by Woodward, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$17,158 as presented.

ADOPTED: Yeas - 3  
Nays - 0


A request for Board approval to reimburse the Drain Revolving Fund in the amount of \$1,326.39 (as attached) was presented. It was moved by Zack, supported by Woodward, to reimburse the Drain Revolving Fund in the amount of \$1,326.39 as presented.

ADOPTED: Yeas - 3  
Nays - 0

It was moved by Nash, supported by Zack, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Zack and Mr. Woodward.

ADOPTED: Yeas - 3  
Nays - 0

There being no further business, the meeting was adjourned.



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Jim Nash, Chairperson

STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board of the Osgood Drain, Oakland County, Michigan, held on the 23<sup>rd</sup> day of June, 2020, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Osgood Drain Drainage District.



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Jim Nash, Chairperson

Dated: July 13, 2020

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE**  
**Osgood Drain**

Assessment for estimated maintenance expenses for fiscal years: 2023 through 2025

Date last assessment approved: 06/23/20  
 Last Assessment: \$17,158  
 Current Available Cash: \$573

<b>Expenditure History:</b>	<u><b>Fiscal Year</b></u>	<u><b>Amount</b></u>
	2016	\$2,478
	2017	\$2,011
	2018	\$1,094
	2019	\$2,192
	2020	\$1,963
	2021	\$1,826
	2022	\$2,523

<b>Estimated Expenditures:</b>	<u><b>Year</b></u>	<u><b>Amount</b></u>
	2023	\$2,400
	2024	\$2,400
	2025	\$2,400
	<b>Total</b>	<b>\$7,200</b>

**Recommended Assessment:**

Current Cash Deficit \$0  
 Total Anticipated Expenses 2023 - 2025 \$7,200

**TOTAL RECOMMENDED ASSESSMENT \$7,200**

Prepared by: Michael R. McMahon Date: 3/2/2023  
 Michael R. McMahon, P.E. - Chief Engineer

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Gary Nigro, P.E. - Manager

Note: Current Available Cash as of January 31, 2023, Fiscal Services Division Report.

**SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE  
OF THE OSGOOD DRAIN**

<b>Public Corporation</b>	<b>*Percentage of Apportionment</b>	<b>Total Amount of Assessment</b>	<b>Payment #1</b>	<b>Payment #2</b>	<b>Payment #3</b>
Charter Township of Orion	85.1846%	\$ 6,133.29	\$ 6,133.29	-	-
County of Oakland	14.8154%	\$ 1,066.71	\$ 1,066.71	-	-
<b>Total</b>	<b>100.0000%</b>	<b>\$ 7,200.00</b>	<b>\$ 7,200.00</b>	<b>\$ -</b>	<b>\$ -</b>

\*Apportionment based on Final Order of Apportionment dated 5/19/1969.

Assessment Payment Due Date(s): Payment #1 04/30/2023

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Osgood Drain for the fiscal years 2023- 2025 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Osgood Drain

The foregoing Special Assessment Roll for the maintenance of the Osgood Drain was approved by the Drainage Board on \_\_\_\_\_.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Osgood Drain

## **14. Dennis Murphy Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE DENNIS MURPHY DRAIN**

March 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of January 28, 2020
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$7,800
5. Other business
6. Approve pro rata payment to Drainage Board Members
7. Adjourn



**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE DENNIS MURPHY DRAIN**

January 28, 2020

A meeting of the Drainage Board for the Dennis Murphy Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 28<sup>th</sup> day of January, 2020.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

David Woodward, Chairperson of the Oakland County Board of Commissioners

Helaine Zack, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: None

Minutes of the meeting held July 24, 2018 were presented for consideration. It was moved by Zack, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$9,100 for the Dennis Murphy Drain (as attached) were presented. It was moved by Zack, supported by Woodward, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$9,100 as presented.

ADOPTED: Yeas - 3  
Nays - 0

It was moved by Nash, supported by Zack, to certify attendance and authorize pro rata payment of \$25 per day to Mr. Woodward and Ms. Zack.

ADOPTED: Yeas - 3  
Nays - 0


There being no further business, the meeting was adjourned.

  
\_\_\_\_\_  
Jim Nash, Chairperson

STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board of the Dennis Murphy Drain, Oakland County, Michigan, held on the 28<sup>th</sup> day of January, 2020, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board of the Dennis Murphy Drain Drainage District.

  
\_\_\_\_\_  
Jim Nash, Chairperson

Dated: February 5, 2020

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE**  
**Dennis Murphy Drain**

Assessment for estimated maintenance expenses for fiscal years: 2023 through 2025

Date last assessment approved:	01/28/20	
Last Assessment:		\$9,100
Current Available Cash*:		\$1,807

Expenditure History:	Fiscal Year	Amount
	2016	\$1,310
	2017	\$1,859
	2018	\$3,281
	2019	\$2,304
	2020	\$3,627
	2021	\$2,034
	2022	\$1,740

Estimated Expenditures:	Year	Amount
	2023	\$2,600
	2024	\$2,600
	2025	\$2,600
	<b>Total</b>	<b>\$7,800</b>

**Recommended Assessment:**

Current Cash Deficit	\$0
Total Anticipated Expenses 2023 - 2025	\$7,800

**TOTAL RECOMMENDED ASSESSMENT \$7,800**

Prepared by: Michael R. McMahon Date: 3/28/2023  
Michael R. McMahon, P.E. - Chief Engineer

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
Gary Nigro, P.E. - Manager

Note: Current Available Cash as of January 31, 2023, Fiscal Services Division Report.  
\*(less \$1,900 previously collected for special maintenance expenses, but not yet spent)

**SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE  
OF THE DENNIS MURPHY DRAIN**

<b>Public Corporation</b>	<b>*Percentage of Apportionment</b>	<b>Total Amount of Assessment</b>	<b>Payment #1</b>	<b>Payment #2</b>	<b>Payment #3</b>
City of Rochester Hills	100.000%	\$ 7,800.00	\$ 7,800.00	-	-
<b>Total</b>	<b>100.000%</b>	<b>\$ 7,800.00</b>	<b>\$ 7,800.00</b>	<b>\$ -</b>	<b>\$ -</b>

\*Apportionment based on Final Order of Apportionment dated 1/28/1994.

Assessment Payment Due Date(s): Payment #1 04/30/2023

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Dennis Murphy Drain for the fiscal years 2023- 2025 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Dennis Murphy Drain

The foregoing Special Assessment Roll for the maintenance of the Dennis Murphy Drain was approved by the Drainage Board on \_\_\_\_\_.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Dennis Murphy Drain

## **15. Lueders Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE LUEDERS DRAIN**

March 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of September 25, 2018
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$58,900
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE LUEDERS DRAIN**

September 25, 2018

A meeting of the Drainage Board for the Lueders Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 25<sup>th</sup> day of September, 2018.

The meeting was called to order by the Acting Chairperson.

PRESENT: Anne Vaara, Chief Deputy Oakland County Water Resources Commissioner  
Acting Chairperson on behalf of Oakland County Water Resources Commissioner  
Jim Nash

Thomas F. Middleton, Chairperson of the Finance Committee,  
Oakland County Board of Commissioners

ABSENT: Michael Gingell, Chairperson of the Oakland County Board of Commissioners  
Jim Nash, Oakland County Water Resources Commissioner

Minutes of the meeting held August 28, 2018 were presented for consideration. It was moved by Middleton, supported by Vaara, that the minutes be approved.

ADOPTED: Yeas - 2  
Nays - 0

Acting Chairperson Vaara asked if there were any public comments. There were none.

A request for Board approval of payment of invoices in the amount of \$120 (as attached) was presented. It was moved by Middleton, supported by Vaara, that the invoices in the amount of \$120 be paid as presented.

ADOPTED: Yeas - 2  
Nays - 0

It was moved by Vaara, supported by Middleton, to certify attendance and authorize pro rata payment of \$25 per day to Mr. Middleton.

ADOPTED: Yeas - 2  
Nays - 0

STATE OF MICHIGAN            )  
  )SS.  
COUNTY OF OAKLAND        )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Lueders Drain, Oakland County, Michigan, held on the 25<sup>th</sup> day of September, 2018, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Lueders Drain Drainage District.

  
\_\_\_\_\_  
Anne Vaara, Acting Chairperson

Dated: October 17<sup>th</sup>, 2018



**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE**  
**Lueders Drain**

Assessment for estimated maintenance expenses for fiscal years: 2023 through 2025

Date last assessment approved:	03/28/17	
Last Assessment:		\$173,800
Current Available Cash:		\$6,510

Expenditure History:	Fiscal Year	Amount
	2016	\$22,111
	2017	\$12,921
	2018	\$23,832
	2019	\$15,063
	2020	\$5,971
	2021	\$23,366
	2022	\$8,322

Estimated Expenditures:	Year	Amount
	2023	\$14,500
	2024	\$14,500
	2025	\$14,500
	<b>Total</b>	<b>\$43,500</b>

**Recommended Assessment:**

Current Cash Deficit	\$0
Total Anticipated Expenses 2023 - 2025	\$43,500
Proposed Special Maintenance Expenses	\$15,400

**TOTAL RECOMMENDED ASSESSMENT** **\$58,900**

Prepared by: Michael R. McMahon Date: 3/28/2023  
Michael R. McMahon, P.E. - Chief Engineer

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
Gary Nigro, P.E. - Manager

Note: Current Available Cash as of January 31, 2023, Fiscal Services Division Report.

**SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE  
OF THE LUEDERS DRAIN**

<b>Public Corporation</b>	<b>*Percentage of Apportionment</b>	<b>Total Amount of Assessment</b>	<b>Payment #1</b>	<b>Payment #2</b>	<b>Payment #3</b>
City of Rochester Hills	92.200%	\$ 54,305.80	\$ 54,305.80	-	-
County of Oakland	2.610%	\$ 1,537.29	\$ 1,537.29	-	-
State of Michigan	5.190%	\$ 3,056.91	\$ 3,056.91	-	-
<b>Total</b>	<b>100.000%</b>	<b>\$ 58,900.00</b>	<b>\$ 58,900.00</b>	<b>\$ -</b>	<b>\$ -</b>

\*Apportionment based on Final Order of Apportionment dated 2/26/1991.

Assessment Payment Due Date(s): Payment #1 04/30/2023

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Lueders Drain for the fiscal years 2023- 2025 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Lueders Drain

The foregoing Special Assessment Roll for the maintenance of the Lueders Drain was approved by the Drainage Board on \_\_\_\_\_.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Lueders Drain

## **16. Augusta Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE AUGUSTA DRAIN**

March 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of January 24, 2023
3. Public Comments
4. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$8,933.39
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE AUGUSTA DRAIN**

January 24, 2023

A meeting of the Drainage Board for the Augusta Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 24<sup>th</sup> day of January 2023.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

David Woodward, Chairperson of the Oakland County Board of Commissioners

ABSENT: Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

Minutes of the meeting held November 15, 2022, were presented for consideration. It was moved by Woodward, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 2  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$3,831.34 (as attached) was presented. It was moved by Woodward, supported by Nash, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$3,831.34.

ADOPTED: Yeas - 2  
Nays - 0

It was moved by Nash, supported by Woodward, to certify attendance and authorize pro rata payment of \$25 per day to Mr. Woodward.

ADOPTED: Yeas - 2  
Nays - 0

There being no further business, the meeting was adjourned.



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Jim Nash, Chairperson

STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Augusta Drain, Oakland County, Michigan, held on the 24<sup>th</sup> day of January 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Augusta Drain Drainage District.



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Jim Nash, Chairperson

Dated: January 24, 2023

**MEMO TO:** Mr. Jim Nash, Chairman  
of the Drainage Board for the AUGUSTA DRAIN

**FROM:** Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting *For Shawn Phelps*

**DATE:** March 28, 2023

**SUBJECT:** Request for Board approval of payment of the following invoices:

<u>Paid To</u>	<u>Reference</u>	<u>For</u>	<u>Amount</u>
Hubbell, Roth, & Clark, Inc	TBP	Invoice # 0203949 - Contracted Services - 02/4/23	\$ 8,933.39
		Total	<u><u>\$ 8,933.39</u></u>

## **17. Caddell Drain**



## **AGENDA**

### **DRAINAGE BOARD FOR THE CADDELL DRAIN**

March 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of October 25, 2022
3. Public Comments
4. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$17,857.47
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE CADDELL DRAIN**

October 25, 2022

A meeting of the Drainage Board for the Caddell Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 25<sup>th</sup> day of October 2022.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

David Woodward, Chairperson of the Oakland County Board of Commissioners

ABSENT: None.

Minutes of the meeting held March 22, 2022, were presented for consideration. It was moved by Markham, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$1,760.00 (as attached) was presented. It was moved by Markham, supported by Woodward, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$1,760.00.

ADOPTED: Yeas - 3  
Nays - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham and Mr. Woodward.

ADOPTED: Yeas - 3  
Nays - 0

There being no further business, the meeting was adjourned.



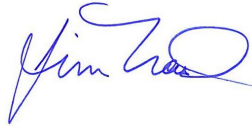
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Jim Nash, Chairperson

STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Caddell Drain, Oakland County, Michigan, held on the 25<sup>th</sup> day of October 2022, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Caddell Drain Drainage District.



---

Jim Nash, Chairperson

Dated: October 25, 2022

**MEMO TO:** Mr. Jim Nash, Chairman  
of the Drainage Board for the CADDELL DRAIN

**FROM:** Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting

*For Shawn Phelps*

**DATE:** March 28, 2023

**SUBJECT:** Request for Board approval of payment of the following invoices:

Payable To	Reference	For	Amount
Hubbell Roth & Clark	V # SINV00168825 Invoice # 0203234 - Contracted	Services - 01/07/23	\$ 9,655.00
Hubbell Roth & Clark	V # SINV00169261 Invoice # 0204507 - Contracted	Services - 03/04/23	8,202.47
<b>Total</b>			<b><u>\$ 17,857.47</u></b>

## **18. Minnow Pond Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE MINNOW POND DRAIN**

March 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of November 15, 2022
3. Public Comments
4. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$8,056.23
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE MINNOW POND DRAIN**

November 15, 2022

A meeting of the Drainage Board for the Minnow Pond Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 15<sup>th</sup> day of November 2022.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

David Woodward, Chairperson of the Oakland County Board of Commissioners

ABSENT: None.

Minutes of the meeting held May 24, 2022, were presented for consideration. It was moved by Markham, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$3,650.94 (as attached) was presented. It was moved by Markham, supported by Woodward, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$3,650.94.

ADOPTED: Yeas - 3  
Nays - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham and Mr. Woodward.

ADOPTED: Yeas - 3  
Nays - 0

There being no further business, the meeting was adjourned.



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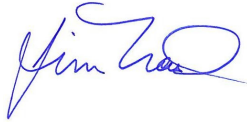
Jim Nash, Chairperson



STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Minnow Pond Drain, Oakland County, Michigan, held on the 15<sup>th</sup> day of November 2022, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Minnow Pond Drain Drainage District.



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Jim Nash, Chairperson

Dated: November 15, 2022

**MEMO TO:** Mr. Jim Nash, Chairman  
of the Drainage Board for the MINNOW POND DRAIN

**FROM:** Shawn Phelps, Chief of Fiscal Services  
Drain Accounting

*FOR SHAWN PHELPS*

**DATE:** March 28, 2023

**SUBJECT:** Request for Reimbursement of Drain Revolving Fund

Request for Board approval of payment of the following invoices:

<u>Payable To</u>	<u>Ref No.</u>	<u>For</u>	<u>Amount</u>
Hubbell Roth & Clark Inc	V# SINV00168825	Invoice # 0203234 - Contracted Services - 01-07-2023	\$ 3,955.00
Hubbell Roth & Clark Inc	V# SINV00169261	Invoice # 0204507 - Contracted Services - 03-04-2023	4,101.23
		<b>Total</b>	<b>\$ 8,056.23</b>

## **19. Northwest Oakland Sanitary Sewer Drain**

**AGENDA**  
**DRAINAGE BOARD FOR**  
**THE NORTHWEST OAKLAND SANITARY SEWER DRAIN**

March 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of February 28, 2023
3. Public Comments
4. Present request for Board approval of payment of invoices and/or reimbursement from the Drain Revolving Fund the amount \$2,093.50
5. Other business
6. Approve pro rate payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE NORTHWEST OAKLAND SANITARY SEWER DRAIN**

February 28, 2023

A meeting of the Drainage Board for the Northwest Oakland Sanitary Sewer Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 28<sup>th</sup> day of February 2023.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

David Woodward, Chairperson of the Oakland County Board of Commissioners

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: None.

Minutes of the meeting held January 24, 2023, were presented for consideration. It was moved by Markham, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

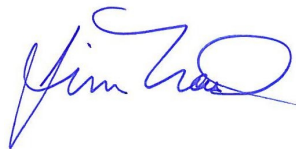
A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$3,306.00 (as attached) was presented. It was moved by Markham, supported by Woodward, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$3,306.00.

ADOPTED: Yeas - 3  
Nays - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham and Mr. Woodward.

ADOPTED: Yeas - 3  
Nays - 0

There being no further business, the meeting was adjourned.




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Jim Nash, Chairperson

STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Northwest Oakland Sanitary Sewer Drain, Oakland County, Michigan, held on the 28<sup>th</sup> day of February 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Northwest Oakland Sanitary Sewer Drain Drainage District.



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Jim Nash, Chairperson

Dated: February 28, 2023

**MEMO TO:** Mr. Jim Nash, Chairman  
of the Drainage Board for the NORTHWEST OAKLAND SANITARY DRAIN

**FROM:** Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting *FOR SHAWN PHELPS*

**DATE:** March 28, 2023

**SUBJECT:** Request for Board approval of payment of the following invoices:

<u>Date</u>	<u>Ref No.</u>	<u>Paid To</u>	<u>For</u>	<u>Amount</u>
3/21/2023	V # SIN00169253	Dickinson Wright PLLC	Invoice # 1786352 - Legal Services - 02/28/23 - Prj # 1-7076	\$ 2,093.50
			<b>Total - Proj #1-7076</b>	<b>\$ 2,093.50</b>

**Chapter 20 Drainage Board Meeting**  
Regular Meeting – Tuesday, March 28, 2023

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**20. Wilmont Drain**



## **AGENDA**

### **DRAINAGE BOARD FOR THE WILMONT DRAIN**

March 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of January 24, 2023
3. Public Comments
4. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$2,340.00
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE WILMONT DRAIN**

January 24, 2023

A meeting of the Drainage Board for the Wilmont Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 24<sup>th</sup> day of January 2023.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

David Woodward, Chairperson of the Oakland County Board of Commissioners

ABSENT: Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

Minutes of the meeting held December 13, 2022, were presented for consideration. It was moved by Woodward, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 2  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

Construction Estimate No. 2 for Trojan Development Company, Inc. for Maintenance of the White Horse Lake Weir Replacement in the amount of \$65,933.00 was presented. It was moved by Woodward, supported by Nash to approve Construction Estimate No. 2 for Trojan Development Company, Inc. for Maintenance of the White Horse Lake Weir Replacement in the amount of \$65,933.00 as presented.

ADOPTED: Yeas - 2  
Nays - 0

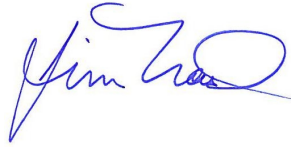
A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$2,082.00 (as attached) was presented. It was moved by Woodward, supported by Nash, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$2,082.00.

ADOPTED: Yeas - 2  
Nays - 0

It was moved by Nash, supported by Woodward to certify attendance and authorize pro rata payment of \$25 per day to Mr. Woodward.

ADOPTED: Yeas - 2  
Nays - 0

There being no further business, the meeting was adjourned.

A handwritten signature in blue ink, appearing to read "Jim Nash", is written above a horizontal line.

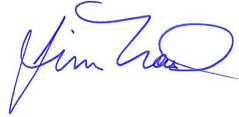
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Jim Nash, Chairperson

STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Wilmont Drain, Oakland County, Michigan, held on the 24<sup>th</sup> day of January 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Wilmont Drain Drainage District.



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Jim Nash, Chairperson

Dated: January 24, 2023

**MEMO TO:** Mr. Jim Nash, Chairman  
of the Drainage Board for the WILMONT RELIEF DRAINS

**FROM:** Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting

*✓ For SHAWN PHELPS*

**DATE:** March 28, 2023

**SUBJECT:** Request for Board approval of payment of the following invoices:

<u>Date</u>	<u>Ref No.</u>	<u>Paid To</u>	<u>Invoice # 420367 - Engineering Services - 02/17/23 - Proj # 1-3632</u>	<u>Amount</u>
3/21/2023	V # SINV00169259	Fishbeck		\$ 2,340.00
			<b>Total</b>	<b>\$ 2,340.00</b>