



# NORTHERN MORAIN WASTEWATER RECLAMATION DISTRICT

113 Timber Trail, Island Lake, Illinois 60042

## REGULAR MEETING MINUTES

September 8, 2020

**Zoom Meeting w/ Video:** <https://us02web.zoom.us/j/83900897745>

Present by Zoom: Trustees: Ken Michaels, John Ragland, Timothy Brunn  
District Manager: Mohammed Haque; District Clerk: Deborah Martin

President Michaels called the meeting to order at 7:42 p.m.

### 1. CALL TO ORDER:

Roll Call: Timothy Brunn – Present  
John Ragland - Present  
Lydia Ryberg – Absent  
Ken Michaels – Present

### 2. PLEDGE OF ALLEGIANCE:

### 3. PRESENTATION & APPROVAL OF MINUTES:

#### a. Regular Meeting, August 11, 2020

Motion by Trustee Brunn to approve the Regular Meeting minutes of August 11, 2020 as presented.

2nd by Trustee Ragland

3 ayes 0 nays 1 absent

**MOTION CARRIED**

Roll Call Vote: Timothy Brunn - Aye  
John Ragland - Aye  
Lydia Ryberg – Absent  
Ken Michaels – Aye

#### b. Executive Session, August 11, 2020

Motion by Mr. Brunn to approve the Executive Meeting minutes of August 11, 2020 as presented.

2nd by Mr. Ragland

3 ayes 0 nays 1 absent

**MOTION CARRIED**

Roll Call Vote: Timothy Brunn - Aye  
John Ragland - Aye  
Lydia Ryberg – Absent  
Ken Michaels – Aye

### 4. TREASURER'S REPORT:

#### a. Approval of the Monthly Treasurer's Report for month ending July 31, 2020

*Manager Haque presented the Monthly Treasurer's Report for month ending July 31, 2020 for Board approval.*

Motion by Mr. Brunn to approve the Treasurer's Report for month ending July 31, 2020 as presented.

2nd by Mr. Ragland

Roll Call Vote: Timothy Brunn - Aye  
John Ragland - Aye  
Lydia Ryberg – Absent  
Ken Michaels – Aye

3 ayes 0 nays 1 absent

**MOTION CARRIED**



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**5. PUBLIC COMMENTS:** none

**6. MANAGER'S REPORT:**

Manager Haque reported to the Board that matters concerning the Lily Lake project would be covered during Executive Session later in the evening. He informed the Board that the full Operations staff is back to working normal hours at the plant with social distancing and face mask protocol in place. Mr. Haque also reported to the Board that the Administrative staff is still working in the office, although the office lobby is closed to the public. Manager Haque reminded the Board that the drive-up window is still in operation for customers, and that Joe Lapastora is temporarily using the Board room as his office. Mr. Haque informed the Board that Staff is hopeful the majority of the work on the North Clarifier would be completed by the end of this month. Mr. Haque explained that staff is awaiting final engineering drawings by Trotter and Associates for the Headworks/Screening project. Manager Haque reported that the District has learned that we did not get the fast-track grant for Darrell Road - Phase 1. He explained that the District is still waiting word on the Control Building Electrical Grant and the Darrell Road project DCEO grants. Mr. Haque informed the Board that the District's application for COVID-19 related expenses was approved and we will now submit costs for reimbursement. Manager Haque also reported that the Staff is still in the process of working on the conversion of the newly purchased van to include a CCTV station and that Staff is investigating NASSCO training for this televising. Mr. Haque brought to the Board's attention an article in their packets concerning personal emails; he reminded the Board that emails relating to public business may be obtained under a Freedom of Information Act request.

**7. TRUSTEE REPORTS - none**

**8. LEGAL BUSINESS - none**

**9. OLD BUSINESS - none**

a. Board of Trustees Appointment for Term Ending April 30, 2021

Manager Haque reported to the Board that he discussed with District Attorney Vic Filippini the Board's concerns that Trustee Nominee Jacob Mann may have a conflict of interest in future matters that could involve the Village of Wauconda. It was agreed that if any conflicts should arise, Mr. Mann could recuse himself. Manager Haque informed the Board that he will send this nominee's information to our state appointing authorities.

**10. NEW BUSINESS**

a. Acceptance of the Annual Treasurer's Report Ending April 30, 2020

Motion by Mr. Ragland to approve the Annual Treasurer's Report for the Fiscal Year Ending April 30, 2020 and to authorize the District Clerk to make the report available pursuant to State Statutes.

2nd Mr. Brunn

Roll Call Vote: Timothy Brunn - Aye  
John Ragland - Aye  
Lydia Ryberg - Absent  
Ken Michaels - Aye

3 ayes 0 nays 1 absent

**MOTION CARRIED**



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b. Adoption of a Resolution Approving Agreement for Public Relations Services

Motion by Mr. Brunn to adopt a Resolution authorizing the District Manager to enter into a contract with Mac Strategies for Public Relations Services in the monthly amount of \$2000, for one year of service.

2nd Mr. Ragland

Roll Call Vote: Timothy Brunn - Aye  
John Ragland - Aye  
Lydia Ryberg - Absent  
Ken Michaels - Aye

3 ayes 0 nays 1 absent

**MOTION CARRIED**

c. District Holidays

*This matter was tabled until the next regular Board meeting so that all Trustees could discuss the matter of the number of Federal holidays that are observed by the District.*

**11. MISCELLANEOUS CORRESPONDENCE**

- a. MCCG Membership Meeting: cancelled due to the COVID-19 pandemic

**12. APPROVAL OF BILLS**

Motion by Mr. Brunn to approve payment of bills on the September 8, 2020 bill list as presented, in the amount of \$290,532.13.

2nd by Mr. Ragland

Roll Call Vote: Timothy Brunn - Aye  
John Ragland - Aye  
Lydia Ryberg - Absent  
Ken Michaels - Aye

3 ayes 0 nays 1 absent

**MOTION CARRIED**

**13. OTHER BUSINESS – Executive Session**

Motion by President Michaels to go into Executive Session at 8:20 pm to discuss litigation issues.

2nd by Mr. Brunn

Roll Call Vote: Timothy Brunn - Aye  
John Ragland - Aye  
Lydia Ryberg - Absent  
Ken Michaels - Aye

3 ayes 0 nays 1 absent

**MOTION CARRIED**

The Regular meeting reconvened at 8:28 pm.

President Michaels stated that the Board went into Executive Session to discuss imminent litigation matters. He stated that the Executive Session ended with no action taken.

Motion by President Michaels to amend the authorization of filing of litigation against Nunda Township concerning the Lily Lake Road project to add "other parties."

2nd by Mr. Brunn

Roll Call Vote: Timothy Brunn - Aye  
John Ragland - Aye  
Lydia Ryberg - Absent  
Ken Michaels - Aye

3 ayes 0 nays 1 absent

**MOTION CARRIED**



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**ADJOURNMENT**

Motion by Mr. Ragland to adjourn at 8:29 p.m.

2nd by Mr. Brunn

3 ayes 0 nays 1 absent

**MOTION CARRIED**



September 8, 2020

To: NMWRD Board of Trustees

From: Mohammed Haque, District Manager

Subject: Manager's Report

*All update items are in italics.*

### **CMMS / Sewer Cleaning & Televising**

The District is working on the conversion of the newly purchased van into an inexpensive CCTV station and has started to get quotes for the winch, flooring, power and generator package and ventilation that will be needed for the conversion. We are also starting to looking into NASSCO training. This training would teach them in 2 days how to code defects in sewers so that it is standardized amongst all users and systems. We anticipate getting 1-2 operators trained in this.

### **2020 Project Funding / Grants**

The State Revolving Loan Fund priority listing has been released and the District has four future projects on it. The current SRF priority listing indicates that there will be principal forgiveness up to \$5 million per agency in future SRF loans. We have submitted an entry for the \$200,000 grant that we hope to receive for the Electrical project at the Control Building. We have also worked with the Village of Lakemoor and made an application for the entire Darrell Road Sewer project for a DCEO Infrastructure Grant. It is expected that we will hear about the grants in the next month. We are also expecting to hear about the Unsewered Grant Fund in Illinois that may be applicable for the Holiday Hills Sewer Project. *We received word that we did not get the fast-track grant for Darrell Road – Phase 1. We are still waiting on word of our Control Building Electrical Grant and the Darrell Road Project (Complete) DCEO grants. Our application for a grant for COVID related expenditures was approved. We anticipate receiving \$30,000-\$50,000 of related expenses and are working on aggregating all the expenditures for reimbursement.*

### **COVID-19 Adjustments**

Staff have made numerous adjustments to accommodate the ongoing pandemic. We have re-started the office with staff all working in the office. Joe and I have separated each other in different “wings” of the office and we wear masks when we go into common areas that Debi and Madalina occupy. The lobby remains closed, but we have installed a plexiglass barrier and have re-opened the drive-through. We will continue to keep the lobby closed until Phase 5 or sooner if we feel it is needed. So far, we have not had anyone request an in-person meeting. *We continue to maintain social distancing and mask use in common spaces and will do so until a vaccine is developed.*



### **Lily Lake Road Improvements – Nunda Township**

We continue to monitor the road on a regular basis.

### **Wegner Road Stormwater Improvements – Nunda Township**

J Condon and Associates are designing a storm sewer for Nunda Township on Wegner Road, east of Lily Lake Road. This area also has both of our Lakemoor force mains as well as a gravity line. We have sent them plans for the sewers so that they can incorporate them in their designs. *We have received the engineering plans from the Village of Lakemoor. It would appear that they have not included our sewers in their design. Data is being collected by Trotter & Associates and they will be issuing a letter regarding our sewer locations to J Condon.*

### **North Clarifier Repairs**

The work is progressing nicely and major installation of the mechanicals will start on September 14.

### **Woodmans [Force Main + Gravity Sewer Extension + Lift Station]**

District board has approved the project improvements, contingent on punchlist item completion. We have received final as-built drawings of the improvements and have accepted the improvements. *Final payment is contingent upon meeting the requirements as outlined in our Intergovernmental Agreement with the Village of Lakemoor.*

### **Personnel**

We are holding off on PT Office Clerk (over 200 applied) because the office is closed. *We have re-advertised the position of Operator in Training.*

### **Floodproofing of Control Building and Generator Modifications**

Floodproofing angles and supports have been delivered. Coping and other architectural metals have been received and are currently being installed by District staff. *Door installation is pending. Final as-builts will be completed by TAI.*

### **Headworks / Screening Issues**

Change order approved to convert to MS2 bar screen and waiting final engineering drawings by TAI.

### **Maintenance Garage**

I am working with ADG Design on the architectural drawings and will submit to the board in the future. Permits from McHenry County Stormwater have been received for the paving work related to the maintenance garage and plant. *Revisions to the architectural drawings were sent back to ADG Design and we are waiting for the next iteration of drawings. This project has been slowed down to make time for current workload.*



### **Ordinance Review**

Currently the District has Sewer rates, usage, construction details and specifications in seven (7) different documents. There is some duplication (and related confusion) as a result. I am currently working with our attorney Vic Filippini to streamline this into 2-3 ordinances, which is the standard for agencies such as ours. This will make things easier for staff and for the public. *Since Vic Filippini is not providing the revisions, I will start to do this work.*

### **Circle K**

Waiting on retained personnel fee. No contact has been made with the District for several months. We have reached out to inspector at Island Lake. *No update.*

### **Skipper Bud's**

Skipper Bud's request to connect to NMWRD did not garner the full support of all five parties. LRSD has requested that the matter be delayed until their dissolution/transfer to Lake County. *No update.*

### **Lift Station Controls**

The Hale control panel has been delivered and because of the 50<sup>th</sup> Anniversary, we have decided to use it at the Treatment Plant Lift Station. A new one will be ordered for Hale, as well as panels at additional locations in the next few months utilizing contributions from state legislature capital bill funding. *Plans are nearly complete and ready to bid once the funding source is confirmed.*

### **520 Wegner Road**

*We are working with Lakemoor and the new owner of this property for a new auto-mechanic shop at this location.*

### **Woodman's Car Wash - Expansion**

*An inquiry has been made for an expansion of the Woodman's Car Wash. We are currently reviewing the plans.*

**Northern Moraine WRD - Septage Receiving Tracking**  
**FY 2020-21**



Month	Loads	Gallons	Revenue FY20-21	Revenue FY19-20	YTD FY20-21
May-20	19	53200	\$3,396.60	\$1,260.00	\$3,396.60
Jun-20	20	63400	\$3,763.80	\$1,320.00	\$7,160.40
Jul-20	25	80700	\$4,528.80	\$711.00	\$11,689.20
Aug-20	16	58900	\$2,927.40	\$1,335.00	\$14,616.60
Sep-20				\$777.00	
Oct-20				\$2,304.00	
Nov-20				\$2,550.00	
Dec-20				\$1,968.60	
Jan-21				\$1,642.20	
Feb-21				\$1,632.00	
Mar-21				\$2,682.60	
Apr-21				\$2,488.80	

	Date	Company Name	Gallons	Cost/Gal	Revenue	Time	Type
May	5/1/2020	Comm. Sewer & Septic	2750	Flat Rate	\$173.40	10:35AM	Septic
	5/4/2020	Weidners	3100	Flat Rate	\$183.60	10:30AM	Septic
	5/5/2020	Comm. Sewer & Septic	2750	Flat Rate	\$173.40	1:45PM	Septic
	5/6/2020	Comm. Sewer & Septic	1500	Flat Rate	\$173.40	10:05AM	Septic
	5/6/2020	Weidners	3000	Flat Rate	\$183.60	2:45PM	Septic
	5/7/2020	Weidners	3100	Flat Rate	\$183.60	11:45AM	Septic
	5/7/2020	Weidners	3500	Flat Rate	\$183.60	2:50PM	Septic
	5/12/2020	Comm. Sewer & Septic	2500	Flat Rate	\$173.40	10:10AM	Septic
	5/12/2020	Weidners	3400	Flat Rate	\$183.60	3:25PM	Septic
	5/14/2020	Comm. Sewer & Septic	3200	Flat Rate	\$173.40	10:30AM	Septic
	5/14/2020	Weidners	3200	Flat Rate	\$183.60	3:00PM	Septic
	5/15/2020	Weidners	3000	Flat Rate	\$183.60	10:00AM	Septic
	5/19/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	3:40PM	Septic
	5/20/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	10:30AM	Septic
	5/20/2020	Weidners	3500	Flat Rate	\$183.60	11:45AM	Septic
	5/20/2020	Weidners	3600	Flat Rate	\$183.60	3:00PM	Septic
	5/21/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	11:10AM	Septic
	5/21/2020	Weidners	3100	Flat Rate	\$183.60	2:55PM	Septic
	5/28/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	11:30AM	Septic
June	6/1/2020	Weidners	3250	Flat Rate	\$183.60	8:30AM	Septic
	6/2/2020	Comm. Sewer & Septic	2500	Flat Rate	\$173.40	3:20PM	Septic
	6/3/2020	Comm. Sewer & Septic	2250	Flat Rate	\$173.40	12:30PM	Septic
	6/5/2020	Weidners	3500	Flat Rate	\$183.60	9:00AM	Septic
	6/5/2020	Comm. Sewer & Septic	2500	Flat Rate	\$173.40	10:00AM	Septic
	6/9/2020	Comm. Sewer & Septic	2500	Flat Rate	\$173.40	11:22AM	Septic
	6/10/2020	Weidners	3750	Flat Rate	\$183.60	9:05AM	Septic
	6/10/2020	Weidners	3800	Flat Rate	\$183.60	12:00PM	Septic
	6/10/2020	Comm. Sewer & Septic	1000	Flat Rate	\$173.40	12:50PM	Septic
	6/10/2020	Weidners	3800	Flat Rate	\$183.60	-	Septic
	6/11/2020	Weidners	3800	Flat Rate	\$183.60	9:55AM	Septic
	6/11/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	2:50PM	Septic
	6/12/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	12:00PM	Septic
	6/17/2020	Weidners	3800	Flat Rate	\$183.60	2:55PM	Septic
	6/19/2020	Weidners	3800	Flat Rate	\$183.60	8:45AM	Septic
	6/19/2020	Weidners	3750	Flat Rate	\$183.60	3:10PM	Septic
	6/24/2020	Comm. Sewer & Septic	3000	Flat Rate	\$173.40	10:45AM	Septic
	6/24/2020	Weidners	3800	Flat Rate	\$183.60	12:15PM	Septic
	6/25/2020	Comm. Sewer & Septic	1000	Flat Rate	\$173.40	10:30AM	Septic
	6/25/2020	Weidners	3600	Flat Rate	\$183.60	3:30PM	Septic
	6/26/2020	Weidners	4000	Flat Rate	\$183.60	9:00AM	Septic
	6/29/2020	Weidners	3900	Flat Rate	\$183.60	12:15PM	Septic



July	7/1/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	12:00PM	Septic
	7/1/2020	Weidners	3850	Flat Rate	\$183.60	1:30PM	Septic
	7/7/2020	Weidners	3950	Flat Rate	\$183.60	12:00PM	Septic
	7/8/2020	Weidners	3600	Flat Rate	\$183.60	9:00AM	Septic
	7/9/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	1:15PM	Septic
	7/10/2020	Weidners	3800	Flat Rate	\$183.60	9:35AM	Septic
	7/10/2020	Weidners	2800	Flat Rate	\$183.60	12:55PM	Septic
	7/13/2020	Weidners	3800	Flat Rate	\$183.60	12:15PM	Septic
	7/14/2020	Comm. Sewer & Septic	1750	Flat Rate	\$173.40	11:30AM	Septic
	7/15/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	11:30AM	Septic
	7/15/2020	Weidners	3750	Flat Rate	\$183.60	12:45PM	Septic
	7/15/2020	Weidners	2550	Flat Rate	\$183.60	3:20PM	Septic
	7/16/2020	Comm. Sewer & Septic	3000	Flat Rate	\$173.40	9:30AM	Septic
	7/17/2020	Weidners	3400	Flat Rate	\$183.60	9:05AM	Septic
	7/17/2020	Weidners	3400	Flat Rate	\$183.60	9:20AM	Septic
	7/17/2020	Weidners	3500	Flat Rate	\$183.60	10:55AM	Septic
	7/20/2020	Weidners	3500	Flat Rate	\$183.60	3:10PM	Septic
	7/21/2020	Weidners	3800	Flat Rate	\$183.60	8:30AM	Septic
	7/24/2020	Weidners	3700	Flat Rate	\$183.60	8:15AM	Septic
	7/28/2020	Weidners	3800	Flat Rate	\$183.60	8:45AM	Septic
	7/29/2020	Weidners	3800	Flat Rate	\$183.60	9:30AM	Septic
	7/29/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	3:40PM	Septic
	7/31/2020	Weidners	3700	Flat Rate	\$183.60	9:00AM	Septic
	7/31/2020	Weidners	3500	Flat Rate	\$183.60	1:15PM	Septic
	7/31/2020	Weidners	3750	Flat Rate	\$183.60	2:00PM	Septic
August	8/5/2020	Comm. Sewer & Septic	3000	Flat Rate	\$173.40	11:55am	Septic
	8/6/2020	Weidners	3800	Flat Rate	\$183.60	11:45am	Septic
	8/7/2020	Weidners	3500	Flat Rate	\$183.60	3:15pm	Septic
	8/11/2020	Weidners	3700	Flat Rate	\$183.60	2:30pm	Septic
	8/12/2020	Weidners	3800	Flat Rate	\$183.60	12:35pm	Septic
	8/13/2020	Weidners	3850	Flat Rate	\$183.60	3:10m	Septic
	8/14/2020	Weidners	3100	Flat Rate	\$183.60	9:15am	Septic
	8/14/2020	Weidners	4000	Flat Rate	\$183.60	12:00pm	Septic
	8/19/2020	Weidners	4000	Flat Rate	\$183.60	11:45am	Septic
	8/19/2020	Weidners	3700	Flat Rate	\$183.60	3:00pm	Septic
	8/21/2020	Weidners	3750	Flat Rate	\$183.60	9:30am	Septic
	8/21/2020	Weidners	3800	Flat Rate	\$183.60	12:30pm	Septic
	8/26/2020	Weidners	3800	Flat Rate	\$183.60	9:30am	Septic
	8/27/2020	Weidners	3800	Flat Rate	\$183.60	1:30pm	Septic
	8/28/2020	Weidners	3700	Flat Rate	\$183.60	8:45am	Septic
	8/28/2020	Weidners	3600	Flat Rate	\$183.60	1:35pm	Septic

## Darrell Road Special Connection Fee Collections

The logo for Northern Moraine Water Resource District (WRD) is a circular emblem. It features a stylized blue water drop in the center, with a green sprout growing from it. Below the drop are wavy lines representing water. The words "NORTHERN MORAIN" are written in a semi-circle at the top, and "WRD" is at the bottom, all within a green circular border.[illegible]

**NMWRD Sewer Connection Permit Tracking**  
FY 2020-21



Permit Date	Address	City	Subdivision/ Business	Re-Connect, Repair, Demo or New Connection	Permit Owner	Permit No.	Connection/ Inspection Fee	Darrell Road Special Connection Fee
6/19/2020	204 Eastwood Avenue	PB	Eastwoods	Repair	Wielogorski	5299-B	\$ 100.00	\$ -
6/29/2020	32044 Savannah Drive	LM	Savannahs	New Connection	William Ryan Homes	5647	\$ 7,674.00	\$ 3,248.00
6/29/2020	32054 Savannah Drive	LM	Savannahs	New Connection	William Ryan Homes	5648	\$ 7,674.00	\$ 3,248.00
8/11/2020	733 Dartmouth Drive	IL	Dartmouths	Repair	Carver/Mr. Rooter	1627-A	\$ 100.00	\$ -
8/19/2020	215 Eastwood Court	PB	Eastwoods	Demo	VOPB/Modern Concrete Inc.	5378-A	-	\$ -
8/27/2020	32052 Savannah Drive	LM	Savannahs	New Connection	William Ryan Homes	5649	\$ 7,674.00	\$ 3,248.00

	Standard Connections	Darrell Road Connections
<b>FY 2020 - 2021 Total:</b>	\$ 23,222.00	\$ 9,744.00
<b>Approved Budget FY 2020 - 2021</b>	\$ 108,536.00	\$ 25,984.00
<b>Approved +/- vs. Current YTD</b>	\$ (85,314.00)	\$ (16,240.00)



## NMWRD August 2020 Operations Report

As of September 3rd, 2020

Prepared by: Luke Markko, Superintendent

**COVID-19 Response** - No new modifications to our current mode of operation other than adjusting schedules to 7:00am to 3:30pm for all Operations staff. Previously there were two shifts. One operating from 6:00am – 2:30pm and the second operating from 10:30am until 7:00pm.

**North Secondary Clarifier** – Two mats of rebar and pressure relief valves we installed in the floor of the North clarifier prior to the concrete slab being poured. We expect the new clarifier mechanism to arrive in the next two weeks and have construction commence within days of its arrival. After the mechanism has been installed an additional 3 inches of grout will be laid over the concrete floor. This will provide the pitch to the center of the clarifier.



Pouring process and finished concrete floor slab.



113 Timber Trail, PO Box  
240, Island Lake, IL 60042



Phone: 847-526-3300  
Fax: 847-526-3349



Email: [info@nmwrd.org](mailto:info@nmwrd.org)  
Web: [www.nmwrd.org](http://www.nmwrd.org)



**Drying Bed Cover** – Staff have begun anchoring and strapping the concrete blocks that were set in the drying bed. This will serve as the foundation of the new arched cover. The anchors will hold the blocks to the existing floor of the drying bed, and the strapping will create a unified structure of the many blocks comprising the foundation. Additional work and details can be found in the Engineering Report concerning the planned improvements to the drying beds.



Anchors and straps installed.

**Sludge Conveyor** - Attempts to convey dewatered sludge with the belt conveyor that was purchased last year provided mixed results and reliability. Staff decided to explore other options. The District is currently renting a 50-foot-long grain auger and is experiencing much better results and reliability. It has run successfully for approximately 20 hours. There is an option to purchase this unit for \$6,500. A shaftless screw conveyor like the existing sludge conveyors of this length would exceed \$100,000.



Sludge conveyor testing grounds.

**Wegner Rd.** – District staff struggled to pothole and locate the force main on the Eastern extent of the project in the vicinity of Scotland and Wegner Rds. The difficulty arose when a depth of greater than 9 feet was reached. At this point the sprayer water used to breakup the earth loses the force required to break up the earth. We have assembled additional extensions to allow high pressure water to reach these depths and break up the soil to allow its flow into the Vactor's vacuum tube.





**Non Potable Water (NPW) Skid** – The new NPW skid has been installed. This skid consists of a metal plate with three pumps and a controller that are used to supply treated effluent throughout the facility. This water is used for washing down tanks, running the centrifuge, and cleaning the screener among other things. The skid that was replaced was the original equipment from the 1998 expansion and has been essentially running non-stop 24-7 all this time. The new skid is equipped with variable frequency drives (VFDs) that allow control over each pump's speed as pressure needs are required. This provides greater electrical efficiency, and quieter operation of the pumps, the latter of which operations staff are grateful for.

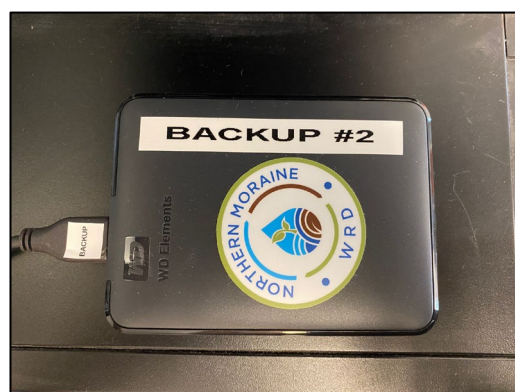


The old NPW skid had seen better days and a number of repairs.



New skid ready for a fresh coat of paint.

**Server Backup** - Recently staff have purchased two external hard drives to serve as backups to critical information stored on the District's server. The hard drives are swapped once per week and stored at an offsite location.



Simple, yet effective.

**Mutual Aid** – On 8/17, the District provided mutual aid to Wauconda Public Works. Their vac truck was out of service for repairs at the time a sanitary sewer backup occurred in their collection system. District staff were able to assist them in clearing the line with the Vector.



## NORTHERN MORaine W R D

**Rawson Bridge Rd. Lift Station** – Part one of a two-part rehabilitation project to replace aging components at Rawson Bridge Rd. Lift Station has been completed. This station receives flow from gravity mains in the vicinity, Deer Grove Lift Station, and the low-pressure system located in Fox River Valley Gardens. This constitutes all the flow from the Village of Port Barrington. In this first part, the check valves, isolation valves, and bypass port located in the dry well were replaced. This is original equipment that was installed in 1998. The check valves were beginning to fail and allow water to flow back through them and into the wet well. This required the station be taken out of service for several hours while the work was completed. This was accomplished using the District's new bypass pump and contracted assistance from Weidner's Septic Service. Incoming flows to the station were too much for just the Vector to keep up with, so the bypass pump was used to pump wastewater into the tanker trucks Weidner's provided. The full tankers were then driven to the point on Timber Trail where septic loads are offloaded and emptied just outside of the treatment facility. The next part of the rehabilitation project will be to replace the base elbows in the wet well. This is where the lift station pumps connect to the piping in the station. The base elbows and the pump discharge flange are designed to mate and provide a tight seal when the pumps are installed. These components have become worn, causing seepage when the pumps turn on which in turn creates vibrations and further wearing of the mating surfaces.



Bypass pump connected to septic tanker.



Old isolation and check valve assembly.



Dry well with one old assembly removed.



New isolation and check valve assemblies with bypass port.





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## **NMWRD Engineering Report**

**Date:** September 4<sup>th</sup>, 2020

**Prepared by:** Joe Lapastora, E.I.T. – Staff Engineer

### **Lily Lake Road Safety Improvements:**

*[Project Update]* – See Managers report for recent developments relating to the Lily Lake Road Safety Improvements project. Note that in mid-August, District employees were instructed to perform daily observation checks for any work that is being performed along Lily Lake Road. The District will continue to monitor the project daily.

### **Wegner Road Storm Improvements:**

*[Project Update]* – The District received preliminary plans for a project titled “Wegner Road Storm Sewer Improvements” in late June. Upon reviewing the plans, we noticed that District infrastructure was not accurately displayed. While attempting to correct the plan set, District staff were unable to locate a reliable as-built plan set of the forcemain along Wegner Road so potholing occurred during early August. The District has identified a majority of the forcemain that runs along Wegner Road and an accurate map is being developed. Operators will travel back to Wegner Road in early September to pothole in one more location. Moving forward, Trotter and Associates will aide in our efforts to determine elevations and overall layout of the forcemain and ultimately respond to the design engineer (J Condon and Associates) with a comprehensive plan review. Note that construction has not been scheduled yet, as Nunda is still in the early phases of the project.

### **Sludge Drying Bed Cover:**

The District received sealed Engineering plans on June 26<sup>th</sup> and sealed foundation plans on July 6<sup>th</sup>. First quality concrete foundation blocks were delivered on July 31<sup>st</sup> from Fischer Bros, with freight services provided by Dahm Enterprises. Strapping metals were ordered through Breuer Metals and were delivered to the plant on August 18<sup>th</sup>. The construction permit was finalized and received from McHenry County during August and the signage is now posted at the treatment plant gate. Poured sections of the lower base of the foundation were poured on September 1<sup>st</sup>. District operators are currently installing strapping metals and will likely wrap up this work by next week. After the foundation is placed with all strapping attached, the District will proceed with scheduling Greenfield to begin construction.





Picture of poured concrete on South slant section.



Picture of poured concrete on North slant section.

#### **Asset Management Software:**

District staff took part in two conference calls during late August and early September. The first call was held on August 17<sup>th</sup> and included project team introductions and a review of project objectives. The second call was held on September 2<sup>nd</sup> and was ESRI/GIS intensive. Moving forward, District staff will participate in bi-weekly status calls in addition to weekly project implementation calls. A full “build-out” schedule was provided on August 4<sup>th</sup> and it appears that the full timeline is built through March 2021, at which point, we can expect Cartegraph to go fully live.

#### **North Clarifier Rehab:**

See the Operations Report for a detailed update regarding the progress on the North Clarifier rehab project.

#### **Sewer Televising & Cleaning Plan:**

NMWRD unveiled its newly developed CMOM plan in March that included a sanitary sewer cleaning and televising schedule, which repeats every five (5) years. A detailed Sewer Televising & Cleaning Plan is still being developed which will dictate the specifics of which gravity mains are to be televised and cleaned in any given year. The District intends to perform cleaning and televising for the majority of the collection system but may need to contract out the work for larger diameter mains.

#### **Phosphorous Discharge Optimization Plan:**

The District entered into an agreement with Fehr-Graham in early April to produce a quality Phosphorous Discharge Optimization Plan (PDOP) which is required per NMWRD’s NPDES permit, Special Condition 20. Note that the District requested a one (1) year extension on the PDOP report on March 26<sup>th</sup>. A draft Permit with proposed changes was received by the District





in late June stating that the IEPA has initiated the 'Public Notice' phase to amend the District's existing NPDES Permit after an extension was requested. The District received the final version of the PDOP on August 27<sup>th</sup>. District staff will review the document in its entirety and move forward with further investigating and recommendations, as outlined in the PDOP document, in the coming months.

**Woodman's Lift Station and Sanitary Sewer Additions:**

*[Project Update]* – The District issued a 'Sanitary Sewer Improvement Requirements' letter to the Village of Lakemoor on June 16<sup>th</sup>. The letter states that the District approved and accepted the sanitary sewer improvements for the Woodman's project on February 11<sup>th</sup>, 2020. Note that the project entered the maintenance period on the aforementioned date, which shall last for three (3) years or until February 11, 2023. The letter references additional requirements outlined in the Intergovernmental Agreement between the Village of Lakemoor and the Northern Moraine Wastewater Reclamation District that must be addressed. The District received all construction record drawings from the Village during the month of July. The District received notification of two (2) developments relating to the Woodman's during the month of August. The first project includes the expansion of the existing Woodman's car wash from two (2) bays to three (3). This project is currently under review as there are some discrepancies on the sewer connection fees. Updates to follow next month. The second project includes the addition of an unattended gas station (confirmed separate building than the existing gas station). We are currently at the preliminary plan review phase for this project. Similarly, updates to follow next month.

**In addition to the work relating to the above projects, the following engineering related work is also being performed;**

- The District is set to post another auction to the Obenauf Auction website next week (approved by Board last month). The auction is set to close in mid-September and the District will ensure that safe social-distancing practices are being enforced upon releasing items to the winning bidders.
- The District purchased a pre-cast concrete metering vault from Norwalk Tank on August 19<sup>th</sup>. Coinciding with the North Clarifier rehab project, the District will be adding a new ABB mag-meter for RAS/WAS metering that will eventually tie into the District's SCADA system. Some items that are still being worked out include, excavating, piping, valves, and installation.
- As part of the CMOM plan to televise and clean the collection system, the District recently received confirmation that we currently possess a license for a televising software named Pipe Tech Scan, that is compatible with our televising unit. Although we confirmed that we possess



## NORTHERN MORaine W R D

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a lifetime license for the software, I was informed that the parent company, Peninsular Technologies, is discontinuing technical support to this software starting January 1<sup>st</sup>, 2021. This is problematic, because no current employee was employed when the District was trained on this software. I met with District Superintendent, Luke Markko, to discuss his comfort with continuing to utilize a software that will not include any technical support and will likely be outdated within a few years and we decided to search for alternative software quotes.

- The District will continue digitizing physical prints through Hainesville Print and Copy. Through August, we have digitized roughly 50 plan sets and the digital output is very good. The District will continue to send batches to Hainesville P&C to keep adding to our digital repository.
- Finally, in an attempt to close out older projects, all open 2018 & 2019 project folders have been reviewed and close-out punch lists are being created. With the assistance of Mohammed Haque and Luke Markko, we determined the remaining items relating to each project. Once finalized, these punch lists will be divvied out amongst staff to close out projects.







## NORTHERN MORaine W R D



**Drone Photos of North Clarifier Progress for August**



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240, Island Lake, IL 60042



Phone: 847-526-3300  
Fax: 847-526-3349

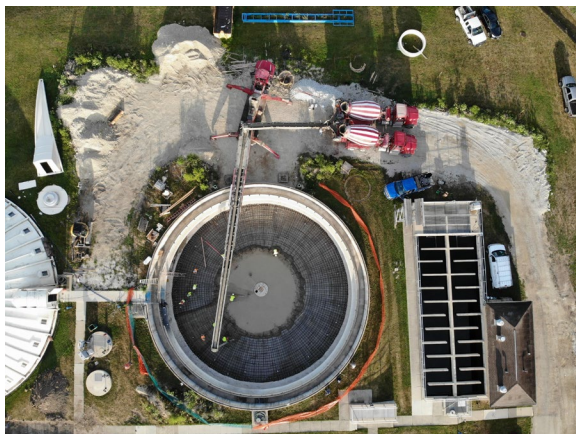


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## NORTHERN MORAIN W R D

### DELINQUENT ACCOUNTS RECAP FOR August 2020

Revised: 9/03/20 by Debi Martin, District Clerk

#### \$200-\$300

##### 81 Active Accounts

Island Lake – 54 customers  
54 Notices of Delinquency  
Lakemoor – 21 customers  
1 Lien - 20 Notices of Delinquency, 1 Sewer Disconnection Notice  
Port Barrington – 6 customers  
1 Lien – 5 Notices of Delinquency, 1 Sewer Disconnection Notice

#### \$301-500

##### 37 Active Accounts

Island Lake – 20 customers  
20 Liens - 3 Final Water Shut off Notices, 17 Water Shut Off Notices  
Lakemoor – 8 customers  
8 Liens - 3 Final Notices of Delinquency, 5 Sewer Disconnection Notices  
Port Barrington – 9 customers  
9 Liens - 5 Final Notices of Delinquency, 4 Sewer Disconnection Notices

#### \$501-\$1000

##### 13 Active Accounts

Island Lake – 1 customer  
1 lien – 1 water off  
Lakemoor – 8 customers  
8 liens – 4 Sewer Disconnection Notices, 4 to be disconnected  
Port Barrington – 4 customers  
4 liens – 4 to be disconnected

#### \$1001 and up

##### 12 Active Accounts

Island Lake – 5 customers  
5 liens – 4 with water off, 1 to be disconnected from sewer  
Lakemoor – 5 customers  
5 liens – 5 to be disconnected  
Port Barrington – 2 customers  
2 liens – 2 to be disconnected

**Delinquent Accounts total (active and inactive customers): \$49,062.90** (\$9,701.89 inactive accts)

**August 2019's report: \$52,361.56**

**August 2018's report: \$50,732.28**

#### MONTHLY ACTIVITY:

**4801** Monthly Bills mailed 9/01/20 (for Aug. service)  
**393** Bills not mailed – customers prepaid on their accounts  
**17** Water Shut Off Notices mailed on 9/02/20  
**3** Final Water Shut off Notices mailed on 9/02/20  
**15** Sewer Disconnection Notices mailed on 9/02/20

**79** Notices of Delinquency mailed 9/02/20  
**8** Final Notices of Delinquency mailed 9/02/20  
**35** Real Estate closings for August 2020  
**23** Liens filed in August  
**33** Liens released in August



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## **NORTHERN MORaine** **W R D**

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### **AGENDA** **REGULAR MEETING** **7:30 P.M. – September 8, 2020**

**Zoom Meeting w/ Video:** <https://us02web.zoom.us/j/83900897745>  
**Meeting ID: 839 0089 7745**  
**Passcode: 854676**

**Zoom Meeting w/ Audio Only: +13126266799,, 83900897745#,,,,,0#,,854676**

- 1. CALL TO ORDER & ROLL CALL**
- 2. PLEDGE OF ALLEGIANCE**
- 3. PRESENTATION & APPROVAL OF MINUTES**
  - a. Regular Meeting Minutes – August 11, 2020
  - b. Executive Session Meeting Minutes – August 11, 2020
- 4. TREASURER'S REPORT**
  - a. Quarterly Investment Report
- 5. PUBLIC COMMENTS**
- 6. MANAGER'S REPORT**
  - a. Operations Report
  - b. Engineering Report
  - c. Delinquent Accounts Report
- 7. TRUSTEE REPORTS**
- 8. LEGAL BUSINESS**
- 9. OLD BUSINESS**
  - a. Board of Trustees Appointment for Term Ending April 30, 2021
- 10. NEW BUSINESS**
  - a. Acceptance of the Annual Treasurer's Report and Authorization to Make the Report Available
  - b. Approve Agreement for Public Relation Services
  - c. District Holidays
- 11. MISCELLANEOUS CORRESPONDENCE**
  - a. MCCG Membership Meeting – Cancelled due to COVID
- 12. APPROVAL OF BILLS**
- 13. OTHER BUSINESS**
  - a. Executive Session – Litigation, if needed

Posted to [www.nmwrld.org](http://www.nmwrld.org) - September 4, 2020



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