



# NORTHERN MORAINE WASTEWATER RECLAMATION DISTRICT

113 Timber Trail, Island Lake, Illinois 60042

## REGULAR MEETING MINUTES

August 6, 2019

Present: Trustees: Ken Michaels, John Ragland, Dena Battaglia, Timothy Brunn, Lydia Ryberg  
District Manager: Mohammed Haque; Assistant District Clerk: Madalina Roscan

President Michaels called the meeting to order at 7:33 p.m.

### 1. CALL TO ORDER:

Roll Call: Timothy Brunn - Present  
John Ragland - Present  
Dena Battaglia - Present  
Lydia Ryberg - Present  
Ken Michaels - Present

### 2. PLEDGE OF ALLEGIANCE:

Those present stood and pledged allegiance to the flag.

### 3. PRESENTATION & APPROVAL OF MINUTES:

#### a. Regular Meeting, July 9, 2019

Motion by Trustee Ryberg to approve the Regular Meeting minutes of July 9, 2019 as presented.

2nd by Trustee Ragland

5 ayes 0 nays 0 abstain

**MOTION CARRIED**

#### b. Semi Annual Review of Executive Minutes

Up for review were the November 13, 2018, the December 11, 2018, the January 8, 2019 and the February 12, 2019 Executive Session minutes. The Board discussed the subjects included in these Executive Session minutes and decided to hold off on releasing those Executive Session minutes that reflected possible real estate purchases.

Motion by President Michaels to release the February 12, 2019 Executive Session minutes as presented.

2nd by Trustee Brunn

5 ayes 0 nays 0 abstain

**MOTION CARRIED**

### 4. TREASURER'S REPORT:

The Treasurer's Report was presented by Mrs. Ryberg

Motion by Trustee Battaglia to approve the Treasurer's Report for the month ending June 30, 2019 as presented.

2nd by Mister Ragland

5 ayes 0 nays 0 abstain

**MOTION CARRIED**

### 5. PUBLIC COMMENTS: none

### 6. MANAGER'S REPORT:

Manager Haque updated the Board on the various projects taking place within the District. He informed the Board that Savannah's of Lakemoor has successfully connected the first model home to the District's sewer line and that Woodman's in Lakemoor has finished the construction phase of their project and anticipates the grand opening to take place later in August. Mr. Haque relayed to the Board the correspondence between Mark Ellerbrock, the owner of Skipper Bud's in Lakemoor, and various officials concerning progress in getting his property connected to a public sewer line. Lakes Region Sanitary District has made the decision to wait until that District fully dissolves before allowing Lake County to act. Mr. Ellerbrock feels his property is in need of public sewer now.



Northern Moraine Wastewater Reclamation District  
Regular Meeting Minutes  
August 6, 2019

Mr. Haque informed the Board that he recently met with Jim Bilotta of Aqua Illinois concerning their purchase of Rockwell Utilities and the possibility of connecting to a regional sanitary. Mr. Haque reminded the Board that at last month's meeting, the decision was made to ask our attorney to file a request for an appearance at the Illinois Commerce Commission's hearing concerning the purchase. He stated he felt that it was important to continue with that motion and to keep the lines of communication open with Aqua Illinois.

Mr. Haque updated the Board on the amount of septage loads the District received in August and that the ordinance for Hauled Waste Program is on the agenda for tonight. He explained that a lot of work is being done at the plant right now in preparation for the District's 50<sup>th</sup> Anniversary Open House in September. He reported that our new operator Tim Hendrickson has begun working in Operations and is acclimating himself to the District. Mr. Haque also reported that interviews for the part-time office assistant will take place within the next two weeks.

Mr. Haque brought to the Board's attention the recent bid for the Clarifier Cover Recoating. The bidder awarded the contract has not been able to supply the urethane product requested in the bid; the District may have to put this project out to bid again in the near future.

Trustee Ragland asked for Manager's Haque's opinion on where the District might stand with Aqua Illinois; Mr. Haque stated that he felt there were options for Aqua Illinois to decide. They can choose to continue on as Rockwell Utilities did; to collect wastewater and bring it to the District; or, to have Northern Moraine take over as provider of sanitary sewer to the area currently served by Rockwell Utilities. He stated he felt that Aqua Illinois may be more interested in the water system more than the wastewater system based on their overall portfolio.

**7. TRUSTEE REPORTS**

President Michaels reported that he had a conversation with the Village of Lakemoor Mayor, Todd Weihofen, concerning the purchase of Rockwell Utilities; Mayor Weihofen stated that the Village would also motion to be a part of the ICC hearing and had expressed concern for the costs the residents of that area might incur. Mr. Michaels stated he had not heard if the Village will follow through.

**8. LEGAL BUSINESS - none**

**9. OLD BUSINESS**

- a. Adoption of Ordinance 19-06, an Ordinance Establishing the Requirements for the Disposal of Hauled Waste

Motion by Mr. Ragland to adopt Ordinance 19-06, an Ordinance establishing the requirements for the Disposal of Hauled Waste.

2<sup>nd</sup> Mr. Brunn

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

5 ayes 0 nays 0 abstain

**MOTION CARRIED**

**10. NEW BUSINESS**

- a. Engineering Services Agreement with Trotter and Associates for Upgrades for Lift Stations 1-7

Motion by Mr. Brunn to approve an Engineering Services Agreement with Trotter and Associates for the Lift Stations 1-7 Upgrades in the Village of Lakemoor and to authorize by Resolution that the District Manager execute that agreement.

2<sup>nd</sup> Mrs. Battaglia



Northern Moraine Wastewater Reclamation District  
Regular Meeting Minutes  
August 6, 2019

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

5 ayes 0 nays 0 abstain

**MOTION CARRIED**

b. Update for the District's plans for our 50<sup>th</sup> Anniversary Open House on September 14, 2019

The Board was informed by a written report provided by District Clerk Debi Martin of the continued planning and work being done for the 50<sup>th</sup> anniversary Open House taking place on September 14<sup>th</sup>. *No action required by the Board.*

c. Resolution for Extension of Contract with Tryon Consulting Services

Motion by Mrs. Battaglia to extend the contract with Tryon Consulting Services and to authorize by Resolution that the District manager execute that extension.

2nd Mr. Ragland

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

5 ayes 0 nays 0 abstain

**MOTION CARRIED**

**11. MISCELLANEOUS CORRESPONDENCE**

- a. MCCG Golf Outing – August 22, 2019 at RedTail Golf Club in Lakewood.

**12. APPROVAL OF BILLS**

Motion by Mrs. Ryberg to approve payment of bills on the August 6, 2019 bill list as presented, in the amount of \$163,791.86.

2nd Mr. Brunn

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

5 ayes 0 nays 0 abstain

**MOTION CARRIED**

**13. OTHER BUSINESS - none**

**ADJOURNMENT**

Motion by President Michaels to adjourn at 8:05 p.m.

2<sup>nd</sup> Mrs. Ryberg

5 ayes 0 nays 0 abstain

**MOTION CARRIED**



August 6, 2019

To: NMWRD Board of Trustees  
From: Mohammed Haque, District Manager  
Subject: Manager's Report

**Savannahs of Lakemoor [Gravity Sewer Extension for Subdivision]**

Waiting on maintenance bond and final site as-builts. Issued letter of acceptance, contingent on these items.

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

Lift station construction is completing this week with the generator being delivered later this week. We continue to work with Lakemoor to ensure that startup and sitework is completed in time for the store opening on August 15<sup>th</sup>.

**Circle K**

Waiting on retained personnel fee. Basic site plans have been received.

**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. Mark Ellerbrock, the property owner, continues to try to seek out a way to get the parties to agree on a path forward.

**Dunkin Donuts - Lakemoor**

Permit has been paid for and we are waiting for language to be approved by the Village of Lakemoor that enforces a notice to the District in the event that a change in use is done in the future. This was requested to allow for a grease trap to be avoided for installation at this time.

**Rockwell Utilities - Lakemoor**

With the assistance of Mike Tryon, I met with Jim Bilotta of Aqua Illinois in the last month to discuss the sale of assets from Rockwell Utilities to Aqua Illinois. Jim has expressed a desire to continue conversations with the District

**Septage Receiving**

Below is a summary of the additional revenue from septage receiving.

Month	Loads	Gallons	Revenue	YTD
May-19	9	21000	\$1,260.00	\$1,260.00
Jun-19	10	22000	\$1,320.00	\$2,580.00
Jul-19	5	11850	\$711.00	\$3,291.00

**Lift Station Controls / Lift Station 1-7 Upgrades**

The Hale control panel has been delivered and we will be working with Kresmery Construction on the installation. Panels at additional locations will be ordered in the next few months utilizing contributions from state legislature capital bill funding.



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

Flood barriers and the architectural panels have been received. All mansard / architectural panel components for the building have been bordered and staff has started the installation. Since we have had considerable savings on this project, we are replacing the weathered and rusting doors on this building with extruded aluminum doors. We are also replacing the entire mansard to have a uniform look for the building. All work is expected to be complete (with the exception of the new doors) by the September 14<sup>th</sup> Open House.

### **Phosphorus Removal**

See Superintendent's report.

### **Influent Flowmeter and Raw Pump #4**

See Superintendent's report.

### **SCADA(Supervisory Control and Data Acquisition) and Automation**

See Superintendent and Engineer's Report.

### **Headworks / Screening Issues**

The influent grinder was installed and is working well. Some alignment issues will require us to move it slightly in the near future in conjunction with the installation of the new replacement screen and conveyor. I have requested Trotter & Associates to prepare some drawings for the installation of the new Headworks MS1 bar screen, conveyor, new gates and the repositioning of the grinder per the previous authorization approved by the Board. That work is pending.

### **Non-Potable Water Improvements**

Self-cleaning filter/strainer has been started up and is working quite well. In the process we have discovered that of the three existing NPW pumps, one does not work properly and another is showing extreme age and corrosion. We are finalizing a replacement pump skid and will proceed with replacing the pumps.

### **Operations Building Remodeling**

Minor punchlist items to be completed by end of August.

### **Office Remodeling**

Minor punchlist items to be completed by end of August.

### **Prairie Woods Generator**

See Superintendent's Report.

### **Maintenance Garage**

CE Ltd has started the work for stormwater permitting by McHenry County. We are working with ADG Design on the architectural drawings and will submit to the board in late fall.



### **Capital Bill**

We are expecting Representative Senator Craig Wilcox and perhaps Senator Dan McConchie at a future board meeting. Their Resolutions of thanks will be presented at the next opportunity. The District will be seeking out opportunities to pursue additional capital funding for Darrell Road with

### **Personnel**

Tim Hendricksen started as a new Operator on July 29 and is acclimating to the District. The other open Operator or Operator-in-Hiring position is being put on hold until after the Open House.

We have advertised for the part-time office help that was discussed last month and have received several applications. It is expected that a person will be hired this month.

### **106 E. State, Island Lake (Dentists Office) Expansion**

The Dentist's office re in the process of televising the service tie-in. A follow-up will be done with the Village of Island Lake once they have a new building inspector to ensure that we have better coordination going forward.

### **User Rate Study**

We are finishing up the Capital Improvement Planning documents for use with the user rate study. It is expected that we can wrap this up in the next 2-3 months.

### **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.

### **Employee Policy Manual Review**

Clark Baird and Smith has reviewed our employee policy manual to ensure that everything is in line and up to date. A draft redline version of the manual has been received and is currently being reviewed by staff. A final version will be presented to the board in the next 1-2 months.

### **Bids – Clarifier Cover Recoating**

We have run into an issue with the Clarifier Cover Recoating bid. As you may recall, this bid for \$32,000 was to repaint the covers using a urethane product. The lowest bidder had an exception in their bid that included using a cheaper acrylic product. As a result of this, we are re-evaluating our bid.



**Northern Moraine WRD**  
*Operations Building Floodproofing &  
 Generator Modifications*  
**Expense Summary**

August 5, 2019

EOPC	\$ 275,265
Budget	\$ 170,000
Anticipated	\$ 150,831
Savings	\$ 124,434
Extras	\$ 47,061

**HARD COSTS**

#	Name	Description	EOPC *	Estimated	Pd to Date	Amt Due	Balance
1	NMWRD	Architectural Panels Installation	\$10,750.00	\$0.00	\$0.00	\$0.00	\$0.00
2	Titan Advantage	Carpentry	\$0.00	\$7,614.00	\$7,614.00	\$0.00	\$0.00
3	Morse Electric	Caulking / Floodproofing Misc.	\$1,000.00	\$1,000.00	\$0.00	\$0.00	\$1,000.00
4	Manusos Contractors	Concrete Curb + Sealing	\$15,340.00	\$14,450.00	\$14,450.00	\$0.00	\$0.00
5	TBD	Concrete Flatwork/Sidewalks	\$3,475.00	\$3,475.00	\$0.00	\$0.00	\$3,475.00
6	Nickelson Industrial	Demolition/Removal	\$20,000.00	\$2,117.00	\$2,117.00	\$0.00	\$0.00
7	NMWRD	Dumpster	\$400.00	\$0.00	\$0.00	\$0.00	\$0.00
8	Doors Online	Dumpster Enclosure - Door	\$0.00	\$1,279.86	\$1,279.86	\$0.00	\$0.00
9	Various	Dumpster Enclosure - Misc.	\$0.00	\$500.00	\$313.83	\$0.00	\$186.17
10	Alexander Lumber	Lumber (Dumpster & Mansard)	\$0.00	\$2,439.77	\$1,636.27	\$0.00	\$803.50
11	ABC Supply	Dumpster Enclosure - Siding / Roofing	\$0.00	\$657.95	\$657.95	\$0.00	\$0.00
12	NMWRD	Dumpster Enclosure + Installation	\$32,500.00	\$0.00	\$0.00	\$0.00	\$0.00
13	Morse Electric	Electrical - Labor + Materials	\$13,000.00	\$15,404.40	\$15,404.40	\$0.00	\$0.00
14	Newcastle Electric	Electrical - Temporary Generator	\$3,000.00	\$2,970.00	\$2,970.00	\$0.00	\$0.00
15	Floodbarrier America	Flood Barrier Panels	\$49,750.00	\$13,600.00	\$13,600.00	\$0.00	\$0.00
16	TBD	Flood Barrier Panels Installation	\$6,000.00	\$5,000.00	\$0.00	\$0.00	\$5,000.00
17	McHenry Heating & Air	HVAC - Raise A/C Unit	\$1,100.00	\$1,100.00	\$1,100.00	\$0.00	\$0.00
18	Don's Welding	Ladder Mods & Re-Installation	\$500.00	\$198.00	\$198.00	\$0.00	\$0.00
19	TBD	Landscaping	\$2,000.00	\$2,000.00	\$0.00	\$0.00	\$2,000.00
20	TBD	Masonry	\$2,800.00	\$7,000.00	\$0.00	\$0.00	\$7,000.00
21	Dahme Mechanical	Mechanical - Wet Well	\$20,000.00	\$12,925.00	\$12,925.00	\$0.00	\$0.00
22	Hollaender	Metals - Railing	\$2,500.00	\$3,921.27	\$3,921.27	\$0.00	\$0.00
25	Dahme Mechanical	Metals - Installation	\$0.00	\$3,420.00	\$3,420.00	\$0.00	\$0.00
26	Motion Industries	Metals - Stairs + Platform	\$1,000.00	\$3,028.12	\$3,028.12	\$0.00	\$0.00
27	Breuer Metal Craftsmen	Metals - Steel Beams/Grating/Angles	\$19,100.00	\$14,200.00	\$14,200.00	\$0.00	\$0.00
28	Wall-Pro Painting	Painting	\$0.00	\$989.44	\$989.44	\$0.00	\$0.00
29	Foundation Building Mater	Hat Channel/Furring Channel	\$1,100.00	\$1,011.64	\$1,011.64	\$0.00	\$0.00
			<b>\$205,315</b>	<b>\$120,301</b>	<b>\$100,837</b>	<b>\$0</b>	<b>\$19,465</b>

**SOFT COSTS**

#	Name	Description	EOPC *	Estimated	Pd to Date	Amt Due	Balance Due
1	NMWRD	Bonds	\$2,460.00	\$0.00	\$0.00	\$0.00	\$0.00
2	Various	Contingency	\$13,700.00	\$5,500.00	\$0.00	\$0.00	\$5,500.00
3	Trotter & Assoc.	Engineering - Design Drawings	\$0.00	\$17,000.00	\$17,000.00	\$0.00	\$0.00
4	Trotter & Assoc.	Engineering - Record Drawings	\$5,000.00	\$5,000.00	\$0.00	\$0.00	\$5,000.00
5	Trotter & Assoc.	Engineering - Submittal Review	\$0.00	\$2,875.00	\$982.75	\$0.00	\$1,892.25
6	Trotter & Assoc.	Engineering Agreement	\$200.00	\$154.50	\$154.50	\$0.00	\$0.00
7	NMWRD	Overhead & Profit	\$24,590.00	\$0.00	\$0.00	\$0.00	\$0.00
8	NMWRD	Supervision	\$24,000.00	\$0.00	\$0.00	\$0.00	\$0.00
	<b>TOTAL SOFT COSTS</b>		<b>\$69,950</b>	<b>\$30,530</b>	<b>\$18,137</b>	<b>\$0</b>	<b>\$12,392</b>

**GRAND TOTAL**

**\$275,265 \$150,831 \$118,974 \$0 \$31,857**

**ADDITIONAL ITEMS ADDED TO PROJECT**

#	Name	Description	EOPC *	Estimated	Pd to Date	Amt Due	Balance Due
1	Cross Aluminum	Doors	N/A	\$8,010.00	\$0.00	\$0.00	\$8,010.00
2	TBD	Door Hardware	N/A	\$2,000.00	\$0.00	\$0.00	\$2,000.00
3	ABC Supply	Wall Cladding	N/A	\$13,301.40	\$0.00	\$13,301.40	\$0.00
4	Fibersin	Architectural Panel Trim	N/A	\$8,963.90	\$4,000.00	\$0.00	\$4,963.90
5	TBD	Lighting	N/A	\$4,000.00	\$0.00	\$0.00	\$4,000.00
6	Mapes Architectural	Canopies	N/A	\$10,786.00	\$0.00	\$0.00	\$10,786.00
	<b>TOTAL ADDITIONAL ITEMS</b>		<b>\$0</b>	<b>\$47,061</b>	<b>\$4,000</b>	<b>\$13,301</b>	<b>\$29,760</b>
	<b>REVISED GRAND TOTAL</b>		<b>\$275,265</b>	<b>\$197,892</b>	<b>\$122,974</b>	<b>\$13,301</b>	<b>\$61,617</b>

\* EOPC (Engineers Opinion of Probable Cost) provided by Trotter & Associates dated October 9, 2018





## **NMWRD July 2019 Operations Report**

As of August 2nd, 2019

Prepared by: Luke Markko, Superintendent

**NMWRD Welcomes New Operator** – I would like to start by welcoming Timothy Hendrickson to the NMWRD team. Tim is a recent and welcome addition to the team. Tim is a Class 4 Wastewater Operator with his sights set on taking the Class 3 exam in the near future. After finishing his first week with the District he is well on his way to learning his new duties.

**6/30 Sanitary Sewer Overflow (SSO)** – During strong storms on June 30<sup>th</sup>, there was a power failure at the wastewater treatment facility as a result of several fallen tree limbs. The backup generator at the facility failed to automatically start and power equipment until an operator reported to the plant site and powered it up manually. The delay in power being restored resulted in the raw wet well backing up and wastewater surcharging the upstream manhole on Timber Trail. Fortunately, the condition was short lived, and the volume of sewage that surfaced was minimal. A Sanitary Sewer Overflow or Bypass Report was filed with the Illinois IEPA to report the incident.

**Non-Potable Water Strainer-** Following up two months after the installation of an automated straining device in the non-potable water system, staff continue to revel in the improved operation of equipment that use the non-potable water. Spray nozzles on the screener and clarifiers continue to remain free flowing and have required very little attention. Prior to the strainer installation, these spray nozzles would become clogged with little bits of debris that were suspended in the water. More recent observations indicate that improvements in polymer performance may stem from the improved water quality. Polymer that is mixed with the non-potable water is used to help facilitate separation of solids from water during sludge dewatering operations with the centrifuge. A recent dewatering operation resulted in a very dry dewatered sludge being produced. More observations will be needed, but the installation of the strainer appears to be having system-wide benefits.



Strainer installed in NPW pump room.

**New Raw Pump** – The new raw pump that was recently installed has been brought online and has been operating continuously for several weeks now. The pump is currently being evaluated before staff commit to installing any future pumps of this type. The idea being to run it as much as possible under a variety of conditions to put it through its paces. There are a couple of advantages that this type of pump offers simply from a design perspective. The pump is immersible, meaning that it can continue to operate





if the basement where it is located were to flood. This is an enormous advantage if ever such an event were to occur. There is no seal water. Most pumps are equipped with a seal around the shaft that extends from the motor to the impeller. The purpose of this seal is to prevent water from entering the motor and shorting it out. Some of these seals require flush water to prevent debris from entering and causing the seal to fail. The preexisting raw pumps are non-immersible and have seals that require flush water. This presents a disadvantage in that if water were to ever enter the basement, these pumps could be rendered inoperable. The flush water for the seals simply represents a potential fail point in the system. Moving to the immersible type of pump ensures that the facility can continue to operate under extreme flooding conditions. More to come on the evaluation of this new pump as time goes by.

**New Sludge Pump** – Installation of a new sludge pump continues in the dewatering building. The sludge pumps convey sludge from the digesters to the centrifuge for dewatering or thickening with the centrifuge. A rotary-lobe pump was selected for its smaller footprint and ease of maintenance. New valves and pipe are being installed to marry the new pump with the existing sludge lines.



Old Moyno sludge pump after removal.



New rotary lobe pump being staged for install.

**Septage Receiving Trial** – We continue to receive a maximum of one septic load each day. So far, plant operations have continued seamlessly, and no adverse effects have been observed. The septage receiving station remains mostly in the design phase, yet a connecting line to the treatment plant headworks is planned in the coming weeks.



**Supervisory Control and Data Acquisition (SCADA) Update** – The SCADA panel that was installed in the dewatering building last month has seen a lot of attention. Integrators from Automation Service and Design (ASD) have been linking it to the centrifuge control panel to allow for monitoring of the dewatering systems. Not only has it been integrated with the centrifuge panel, it has been utilized to eliminate the old belt filter press (BFP) control panel. The old BFP panel was utilized as a bridge between the centrifuge control panel, the sludge conveyors, and polymer feed system. This was a very complex interaction between the newer centrifuge controls and the old and antiquated BFP control system. Integrators from ASD worked with electricians from The Morse Group to disentangle the controls from the old BFP panel and simplify the electrical controls in this building.



Dewatering Building SCADA panel.



Interior of Dewatering SCADA Panel

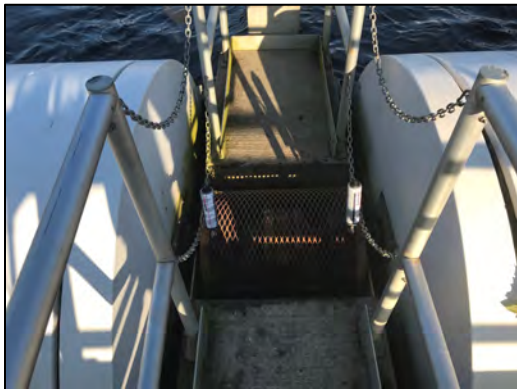
**Drying Bed Improvements** – District staff have completed the installation of Turf-Stone in the drying beds directly East of the Dewatering Building. This will allow for the operation of a front-end loader in the bed without the wheels sinking into the drainage runners. This is another step towards the plan to have direct conveyance of the dewatered sludge to stockpile storage.



Ready for a roof, and some sludge!



**Automatic Greasers** – The automatic greasers for the aerator bearings on the Oxidation Ditch have been installed and put into operation. This presents a savings of several hours of work each week. Prior to the installation of the automatic greasers, staff would spend several hours each week pumping grease into the 16 bearings on the aerators. This was especially time consuming and difficult in the winter months when the viscosity of the grease increased and made it more difficult to pump. Now staff can preload canisters in the warmth of the garage once per month.



Auto-greasers installed on Aerator bearings.



Preloaded canisters ready to go.

**Prairie Woods Lift Station Generator** – A new generator has been installed at the Prairie Woods Lift Station. This generator replaces a 10+ year old unit that has experienced operational issues in the last 18 months, and field repairs have been unsuccessful. Now that the new generator has been installed, the plan is to have the old unit taken to a facility to be overhauled. Once repaired, it can be utilized at one of the District Lift Stations lacking an onsite generator. The new generator is scheduled for startup testing on 8/5.



Old generator being removed.

**Port Barrington Low Pressure Main Break** – As Port Barrington Public Works staff were mowing on Riverside Drive, they accidentally hit one of the valve stems associated with a resident's grinder pump pit. This broke the valve below ground and resulted in a leak. District staff were able to utilize the Vector to hydro-excavate the





surrounding soil and replace the broken valve. Port Barrington Public Works then performed backfilling and restoration of the site.



Hydro-excavation to reach break in low pressure force main.



Repairs and restoration.

**Control Building Facelift** - Work is underway to replace the old mansard that surrounded the Control Building at the wastewater treatment plant. A moisture barrier consisting of a Tyvek wrap has been installed. Two types of architectural panels have been ordered. A fiber cement panel, that has recently arrived, and a dense phenolic laminate panel with an arrival date scheduled later this month. These panels along with some updated exterior lighting will provide a more modern and aesthetically pleasing appearance.



Mansard removed from Control Building.



Moisture Barrier Tyvek Wrap over exposed CMU (cinderblock).

**NMWRD Engineering Report**  
Date: August 2<sup>nd</sup>, 2019  
Prepared by: Joe Lapastora, Junior Engineer

**Deer Grove Sanitary Sewer Extension:**

*[Project Update]* – The construction portion of this project has been successfully completed. All applicable testing has been conducted with no failed items and the sanitary sewer extension has been cleaned and televised. The District Board of Trustees voted to approve the sewer extension at the June 11<sup>th</sup> Board Meeting and Mohammed Haque issued an “Approval for Use” letter to Jarvis Exteriors, Inc. on June 13<sup>th</sup>. The District has officially entered the maintenance period of the project for the next three (3) years.

**Savannah’s of Lakemoor Residential Subdivision:**

*[Project Update]* – PirTano has completed the construction portion of this project. All applicable testing has been conducted with no failed items and the sanitary sewer addition has been cleaned and televised. The District Board of Trustees voted to approve the sewer extension at the June 11<sup>th</sup> Board Meeting. Mohammed Haque is waiting for a few items before issuing an “Approval for Use” letter to William Ryan Homes. The items include; physical and digital as-builts and William Ryan Homes will need to exchange their maintenance bond for performance bond. After receiving the aforementioned items, the District will officially enter the maintenance period of the project for the next three (3) years.

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

*[Project Update]* – RA Mancini Construction has completed the mainline construction portion of this project. The service lines coming from the Woodman’s building, car wash and gas station (Installed by Lake County Grading Company) have been tested with no failed items and were connected to the mainline on July 15<sup>th</sup>. Additionally, all testing on the sanitary sewer mainline has been completed with no failed items. A 700’ forcemain run connecting the wet well to the existing forcemain that runs along Rt. 120 (installed by Berger) was also pressure tested on July 22<sup>nd</sup> and passed with no leakage detected. Note that a visual inspection of the wet well and valve vault is set to be performed in early August. After the mainline testing was completed, Mancini shifted their focus to the remaining items of the lift station. Concrete curb and a concrete pad for the generator/control panel was poured in late July to prepare for ComEd and Nicor to do their underground work. Mancini is still in the process of wrapping up the electrical work pertaining to the generator and control panel as of July 31<sup>st</sup>. The hard opening for the Woodman’s store is tentatively set for August 15<sup>th</sup>.



Service connections to the sanitary sewer mainline



Picture of manhole vacuum test.





Cap location for forcemain pressure test performed on July 22<sup>nd</sup>.



Picture of cap in place for forcemain pressure test.

**Right turn lane at the intersection of Route 176 and Roberts:**

*[Project Update]* – JB Drilling began drilling for the retaining wall on July 20<sup>th</sup>. The District is still waiting for construction crews to begin stripping pavement at the intersection of Route 176 and Roberts Road, at which time we will find the foreman to discuss our intent to uncover two buried manholes.

**NMWRD Floodproofing & Other Plant Projects:**

*[Project Update]* – Completed aspects of this project include; new concrete curb, step ladder, railing, kick plates, temporary steps, conveyor removal, grating, control panel relocation, Rotamat Conveyor has arrived but is awaiting install, immersible raw pump installation, and flood barriers have arrived but are awaiting install. Pending work items include; finishing flashing and marriage to new deck for dumpster enclosure, install flood barriers and permanent stairs to be installed after new sidewalk is poured. Furthermore, in preparation for the Sludge Drying Bed Cover bid, prep work on the Southeastern most drying beds has been completed. During the month of July, Mohammed reached out to Ross Kahler and Joe Lapastora to order all the necessary equipment/hardware/lumber/etc. for the Operations Building exterior upgrades. Ross has been pivotal through the entire ordering process and all materials should arrive throughout August so that the Ops building will be completed by the 50<sup>th</sup> anniversary. Finally, District staff has reviewed the plans for the pavement upgrades for the treatment plant and administrative building and we are waiting for permitting in order to move forward.

**NMWRD SCADA & Telemetry:**

*[Project Update]* – Completed aspects of the SCADA & Telemetry project include; underground conduit with tracer wire installed at the plant, some hardware has been ordered for SCADA system, Rotork Actuators ordered from LAI, one (1) actuator installed on a RAS line, fiber cable ordered, and new concrete pads poured. Items currently on hold or in progress include; Panel/enclosures, restoration landscaping after all excavating is complete, and tying the entire system together. Allan-ICS was awarded the bid regarding the SCADA Control Panels. The three (3) panels include; Control Building C.P., Oxidation Ditch C.P. and Chemical Building C.P.

**Septage Receiving:**

*[Project Update]* – The District has been exploring the option of septage receiving at the treatment plant and intends to move forward with a permanent septage receiving station. Preliminary designs have been examined and District staff will finalize a design in the upcoming month. Once a final design is established, the District would have to complete the permit process with the IEPA in order to start



receiving septage. This program would provide the District with another revenue stream with a short-term payback period.

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

- Arne Venteris visited the District on July 24<sup>th</sup> to perform a lighting pilot. The transition to LED lighting proved to be a simple transition, however, District staff did not like the color of the lights, and we have requested that Arne order bulbs with a warmer color (more yellow than white). We are currently waiting for Arne to receive the new bulbs for another 25-bulb pilot.
- The auction for the old crane F550 and Moyno sludge pump is live via Obenhauf Auctions. Regarding the old electronic items that did not sell during last month's auction, they will be added to the multiple items that were identified as no longer in working condition and recycled for scrap value. The District has reached out to Wauconda Recycling Center and they have confirmed that they are available to pay scrap value for the electronics.
- District Junior Engineer, Joe Lapastora and District Engineering Intern, Ross Kahler, attended Workshop #3 for the ComEd Strategic Energy Management cohort on July 24<sup>th</sup> at Fox Metro WRD in Oswego, IL. After this workshop, the District will be moving into a more energy intensive focus while we fine tune some plant operations to minimize energy use. I would be remiss to not mention how awesome it is that Northern Moraine has a District Manager and Superintendent who are open to the idea of changing how things are done at the plant without stating "but this is always how things have been done around here, so we aren't changing anything." It is this attitude that will ultimately benefit the District and furthermore, all of the District's customers.
- Idea Marketing has entered Phase 3 of the website re-design. I have handed over login credentials to Idea Marketing representatives so that we can start transferring over pictures/files/etc. Upon completing Phase 3, District staff will assume administrative privileges to fine tune the website and edit any text or pictures that we deem necessary.
- In preparation for NMWRD's 50<sup>th</sup> anniversary celebration, District staff have been doing a lot of planning and organizing so that we are ready come September 14<sup>th</sup>. Rental logistics are being handled by Debi Martin as we will be renting a few items from Ed's Rental. Debi has also been taking care of the catering. Brochures are being developed for public education while we have also arranged for tours, lab demonstrations, technology updates, and more for our guests. Posters, flyers and postcards have arrived at the District office and are ready for disbursement. Finally, a 50<sup>th</sup> itinerary is being finalized and we hope to distribute it very soon.

**Engineering Intern Spotlight – Ross Kahler:**

I have been working on the façade upgrades as mentioned above, getting great experience dealing with contractors and suppliers. Some items have started being delivered and installed this week, so visible progress is good to see. I have also been trading off with Joe Lapastora for construction observation at Woodman’s, utility locates, and residential connection inspection. I’ve also been working to get some of NMWRD’s surplus items sold, with the old crane truck and sludge pump currently up for auction to free up some space in the drying beds. I’ve really enjoyed working at the district this summer and I appreciate the opportunity to gain more experience.



**Pictured: Ross Kahler, E.I.T. – NMWRD Engineering Intern**



## DELINQUENT ACCOUNTS RECAP FOR July, 2019

Revised: 8/02/19 by Debi Martin, District Clerk

### \$200-\$300

#### 95 Active Accounts

Island Lake – 70 customers  
50 Water Shut Off Notices, 2 Final Water Shut Off Notices, 18 Final Notice of Delinquency  
Lakemoor – 20 customers  
17 Water Shut Off Notices, 1 promised payment, 2 Final Notices of Delinquency, 6 Sewer Disconnection Notices  
Port Barrington – 5 customers  
5 Final Notices of Delinquency

### \$301-500

#### 11 Active Accounts

Island Lake – 5 customers  
1 Final Water Shut Off Notice, 3 Water Shut Off Notices, 1 Sewer Disconnection Notice  
Lakemoor – 5 customers  
4 Sewer Disconnection Notices, 1 Final Water Shut Off Notice  
Port Barrington – 1 customer  
1 promised payment

### \$501-\$1000

#### 14 Active Accounts

Island Lake – 6 customers  
4 liens – 4 with water off, 2 to be disconnected from sewer  
Lakemoor – 4 customers  
4 liens – 4 to be disconnected  
Port Barrington – 4 customers  
4 liens – 2 to be disconnected; 1 Sewer Disconnection Notice, 1 in foreclosure

### \$1001 and up

#### 10 Active Accounts

Island Lake – 5 customers  
5 liens – 5 with water off  
Lakemoor – 5 customers  
5 liens – 3 sold for delinquent taxes, with 1 to be demolished, 2 to be disconnected

Delinquent Accounts total (active and inactive customers): **\$52,361.56** (\$9,613.65 inactive accts)

July 2018's report: **\$50,275.76**

July 2017's report: **\$58,399.05**

#### MONTHLY ACTIVITY:

4797	Monthly Bills mailed on 8/1/19 (for July service)	96	Notices of Delinquency mailed on 8/1/19
389	Bills <u>not</u> mailed – customers prepaid on their accounts	12	Sewer Disconnection Notices mailed on 8/1/19
70	Water Shut Off Notices mailed on 8/1/19	4	Final Water Shut Off Notices mailed on 8/1/19
25	Final Notices of Delinquency mailed on 8/1/19	25	Real Estate closings for July 2019
		1	Lien Released



"Do we we accept PayPal? We accept any method that pays, pal."

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# Northern Moraine Wastewater Reclamation District

113 Timber Trail  
Island Lake IL 60042

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## AGENDA REGULAR MEETING 7:30 P.M. – August 6, 2019

1. **CALL TO ORDER & ROLL CALL**
2. **PLEDGE OF ALLEGIANCE**
3. **PRESENTATION & APPROVAL OF MINUTES**
  - a. Regular Meeting Minutes – July 9, 2019
  - b. Semi-Annual Executive Session Minutes Review
4. **TREASURER'S REPORT**
5. **PUBLIC COMMENTS**
6. **MANAGER'S REPORT**
  - a. Operations Report
  - b. Engineering Report
  - c. Seriously Delinquent Accounts Report
7. **TRUSTEE REPORTS**
8. **LEGAL BUSINESS**
9. **OLD BUSINESS**
  - a. Adoption of Ordinance # 19-06, Hauled Waste Ordinance
10. **NEW BUSINESS**
  - a. Approve Engineering Services Agreement with Trotter and Associates, Inc. for Engineering Services for Lift Stations 1 to 7 Upgrades in the Village of Lakemoor
  - b. 50<sup>th</sup> Anniversary Update
  - c. Approve Resolution Extending Legislative Consulting Agreement with Tryon Consulting
11. **MISCELLANEOUS CORRESPONDENCE**
  - a. MCGG Golf Outing – August 22, 2019 – RedTail Golf Club, Lakewood, IL
12. **APPROVAL OF BILLS**
13. **OTHER BUSINESS**
  - a. Executive Session – if needed