



NORTHERN MORAINE WASTEWATER RECLAMATION DISTRICT

113 Timber Trail, Island Lake, Illinois 60042

REGULAR MEETING MINUTES

December 11, 2018

Present: Trustees: Ken Michaels, John Ragland, Dena Battaglia, Lydia Ryberg
District Manager: Mohammed Haque; District Clerk: Deborah Martin
Guest: Mayor Charles Amrich, Village of Island Lake

President Michaels called the meeting to order at 7:32 p.m.

1. CALL TO ORDER:

Roll Call: Dena Battaglia - Present
Timothy Brunn - Absent
John Ragland - 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, November 13, 2018

Motion by Trustee Ragland to approve the Regular Meeting minutes of November 13, 2018 as presented.

2nd by Trustee Battaglia

4 ayes 0 nays 0 abstain

MOTION CARRIED

b. Executive Meeting, November 13, 2018

Motion by Mrs. Battaglia to approve the Executive Meeting minutes of November 13, 2018 as presented.

2nd by Trustee Ryberg

4 ayes 0 nays 0 abstain

MOTION CARRIED

4. TREASURER'S REPORT:

The Treasurer's Report was presented by Mrs. Ryberg who noted that she had reviewed it and found it to be in good order.

Motion by Mr. Ragland to approve the Treasurer's Report for the month ending October 31, 2018 as presented.

2nd Mrs. Battaglia

4 ayes 0 nays 0 abstain

MOTION CARRIED

5. PUBLIC COMMENTS - none

It was noted by President Michaels that the Honorable Mayor Chuck Amrich from the Village of Island Lake was in attendance.

6. MANAGER'S REPORT:

Manager Haque reported to the Board that he met with Matt Dabrowski and Dave Alarcon with the Village of Lakemoor to discuss the progress of the construction of Woodmans along with the potential opportunities for growth in Lakemoor. The construction at Woodman's was slowed down in November due to high groundwater conditions. Manager Haque stated that the SCADA and automation project continues, with this project being designed, planned and completed mostly in house. He reported that the Headworks/Screening issues are still being corrected, along with improving the filtration system for the District's non-potable water. Manager Haque informed the Board that the staff had plans for a Holiday Party on December 14th and invited Board members to attend. The Standardized Lift Station Control



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Panels project continues as does the Floodproofing/Generator Modifications project. Final touches to the Operations building remodeling will be completed soon, according to Manager Haque, with more efficient lighting and the replacement of aging computers and furniture. He stated that the Phosphorus Removal project has the anticipated change in chemical talked about last month and that the feeding of the new chemical into our system will begin shortly.

7. TRUSTEE REPORTS - none

8. LEGAL BUSINESS - none

9. OLD BUSINESS:

a. Semi Annual Review and Approval of the District's Strategic Plan

Manager Haque pointed out the updates that have been made to the District's Strategic Plan since the last review in July of 2018, including updates in the Employees' Wages and Benefits since implementation of IMRF. The Board reviewed the District's Strategic Plan.

Motion by Mrs. Battaglia to adopt the revised Strategic Plan as presented.

2nd Mrs. Ryberg

4 ayes 0 nays 0 abstain

MOTION CARRIED

10. NEW BUSINESS

a. Approval of payment to McHenry County Division of Transportation

Manager Haque noted how the cost of the project has gone down considerably since it's inception with the current cost at less than 50% of what was originally anticipated in 2013.

Motion by Mr. Ragland to approve the payment of \$357,759.55 to McHenry County Division of Transportation for the Force Main Relocation at the Dowell Road Roundabout.

2nd Mrs. Ryberg

4 ayes 0 nays 0 abstain

MOTION CARRIED

b. Approval of the 2019 NMWRD Board Meeting Dates

Motion by Mrs. Ryberg to approve the Calendar Year 2019 Regular Board Meeting Schedule for the Northern Moraine Wastewater Reclamation District Board of Trustees as proposed.

2nd Mr. Ragland

4 ayes 0 nays 0 abstain

MOTION CARRIED

c. Approval of the 2019 Holiday Schedule

Motion by Mrs. Ryberg to approve the paid holidays as presented for the Calendar Year 2019 Holiday Schedule.

2nd Mrs. Battaglia

4 ayes 0 nays 0 abstain

MOTION CARRIED

d. Approval of Retroactive Emergency Purchase of a Screw Conveyor

Mr. Haque reported that the time and effort spent in repairing the old unit had proved to not work and after getting two quotes on a replacement screw conveyor, staff agreed that the unit was needed immediately, and purchased a new unit from Motion Industries for \$19,152.79. He indicated that this was an emergency replacement.

Motion by Mr. Ragland to approve the retroactive purchase of a screw conveyer for the District's headworks from Motion Industries in the amount of \$19,152.79.

2nd Mrs. Ryberg.

4 ayes 0 nays 0 abstain

MOTION CARRIED



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11. MISCELLANEOUS CORRESPONDENCE

- a. MCCG Holiday Membership Meeting – December 12, 2018 Bull Valley Golf Club in Woodstock.District
District Manager Haque, Trustee Ryberg and Trustee Ragland will be in attendance with their spouses.

12. APPROVAL OF BILLS

Motion by Mrs. Ryberg to approve payment of bills on the December 11, 2018 bill list as presented, in the amount of \$444,325.77.

2nd Mrs. Battaglia

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

4 ayes 0 nays 0 abstain

MOTION CARRIED

13. OTHER BUSINESS - Executive Session

- a. Purchase of Real Estate/Personnel Issues

Motion by President Michaels to go into Executive Session to discuss the purchase of real estate and personnel issues.

2nd Mrs. Battaglia

4 ayes 0 nays 0 abstain

MOTION CARRIED

Regular session ended at 7:53 pm.

Executive session ended at 8:50 pm.

Regular session reconvened at 8:52 pm

President Michaels stated that no Board action was taken at the Executive Session concerning the purchase of real estate or on personnel matters.

Motion by President Michaels to change the Holiday Bonus to an End of Year Performance Bonus and to authorize the District Manager to grant such bonuses with a minimum of \$100 up to \$500 per employee based on the Manager's determination of that employee's value to the District over the past year. Manager Haque is to be awarded a \$500 bonus.

2nd Mrs. Ryberg

4 ayes 0 nays 0 abstain

MOTION CARRIED

Motion by President Michaels to adopt a resolution authorizing the District Manager to execute an agreement for the purchase of real estate.

2nd Mr. Ragland

4 ayes 0 nays 0 abstain

MOTION CARRIED

Motion by President Michaels to revise the District Manager Haque's employment compensation for a period of one year with his salary increased to \$135,000 and his car allowance increased by \$100 per month, to a total of \$400 per month.

2nd Mrs. Ryberg

4 ayes 0 nays 0 abstain

MOTION CARRIED

ADJOURNMENT

Motion by Mr. Ragland to adjourn at 9:11 p.m.

2nd President Michaels

4 ayes 0 nays 0 abstain

MOTION CARRIED



December 11, 2018

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

November came and went before we even knew it. And it felt like January. Needless to say, with the very quick weather change, we have expedited completing outside work. Both the Operations and the Engineer's report cover all of the various projects and activities in the works. I'll touch on some items that are not already covered in those reports with the goal of avoiding duplication.

Deer Grove North Unit 2 [Gravity Sewer Extension for 11 lots]

Please see the Engineering Report for an update on this project.

Savannahs of Lakemoor [Gravity Sewer Extension for Subdivision]

Please see the Engineering Report for an update on this project.

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

I met with Matt Dabrowski and David Alarcon on November 15 to go over this project as well as other potential opportunities that exist in Lakemoor. I will be having additional meetings with Matt to develop plans on how, when and with what funding we could expand sewers to provide service to additional properties west of Route 12 along Route 120. We will also work to tidy up projects related to our agreements. Overall, work has slowed extensively because of difficulty by the contractor on installing sewer due to high groundwater conditions.

SCADA(Supervisory Control and Data Acquisition) and Automation

The conduits were installed so that there is a loop around the plant for fiber optic cables, allowing for practically undisturbed connectivity in the event one fiber cable or conduit is damaged. The disturbed areas have been re-landscaped by Accent Landscaping. During winter we will start to run conduits inside buildings, set fiber optic switches and control panels as well as purchasing and running fiber optic cables and hardware for the network. In addition, we will plan out all instrumentation, valving and equipment to purchase for the various items we want to automate. In the spring, we will get equipment installed and start the process of optimizing tasks and data gathering that can be automated. The savings in time from this work will allow our lean staffing to concentrate on work out in the sewer system and lift stations. This project is being designed, planned and completed in-house, with specific construction related tasks being contracted out based on trade expertise.

Headworks / Screening Issues

This continues to be something that we are trying to fix and get working correctly. We anticipate that several issues will be resolved with the installation of the influent grinder and the latest round of modifications to the Raptor RDS that Lakeside completed. The purchase of the screenings conveyor will also help with our various issues in this area. In conjunction with the above work, we are also looking at improving our filtration system on the Non-potable water (plant effluent). There is concern that the quality of the water to the unit may be causing some issues. To ensure that the quality of the water is not part of the problem, we need to install some additional filters. The cost of those filters, with installation, will be around \$10,000 and can be managed with the existing budget.



Branding & Culture

We have planned a pizza and soda holiday get-together for staff and their family on Friday, December 14th. Because of all the staffing changes at the District, many of us are looking forward to having our families meet and get to know one another. It would be good to have some board members attend also. If you are interested, please let me know and I will forward the details.

Lift Station Controls / December Board Meeting

The District has reviewed the second design submittal for the standardized control panel (Unit #1 of 22) at Hale 1 lift station and have sent back comments to the control panel vendor, B&M Technical Services. Future iterations of this long term project will include building and installing standardized panels at our other 21 lift stations, with advanced remote monitoring using the Grundfos Remote Management System. The timing of our work is allowing the new Woodman's Lift Station Control Panel (#23) to be done per the same standard design.

Floodproofing of Control Building and Generator Modifications

Work on this project continues with the ordering of the grating, removal of the failed screw conveyor, pouring of the concrete curb, installation of the modified ladder and building of the dumpster enclosure. Purchase orders have been issued for electrical work to Morse Electrica as well as a rolling coil door for the dumpster enclosure. The project was designed by Trotter and Associates and is being value-engineered as we construct it. Attached is an updated summary of the anticipated cost of the project relative to the original Engineer's Opinion of Probable Cost. Our methodology, as well as additional value engineering by District staff, is expected to save over \$117,000, or nearly 40% off the cost of the project. It is still our intent to get the wet well completely covered and floodproofed by the end of December and to move on to the internal electrical work in the winter. Additional items such as floodproofing stoplogs on the doors, roofing and masonry revisions and outside concrete flatwork will be completed in the spring with anticipated project completion by mid-April.

Phosphorus Removal

We have moved on to Hyper+Ion as the new chemical to use for our phosphorus removal. The product was purchased and 10 totes were delivered earlier this week. We anticipate starting to feed it into our system beginning next week.

Operations Building Remodeling

We anticipate going back and finishing installation of shelving and cabinets in December. The only items remaining after that will be to replace the halogen lighting with higher efficiency LED lighting and to replace the aging computers and furniture.



Northern Moraine WRD

Operations Building Floodproofing &
Generator Modifications

Expense Summary

December 11, 2018

EOPC	\$	286,615
Budget	\$	170,000
Anticipated	\$	168,889
Savings	\$	117,726

HARD COSTS

#	Name	Description	EOPC *	Estimated	Pd to Date	Balance Due
1	TBD	Architectural Panels	\$10,750.00	\$12,000.00	\$0.00	\$12,000.00
2	TBD	Architectural Panels Installation	\$10,750.00	\$10,750.00	\$0.00	\$10,750.00
3	TBD	Architectural Soffit Modifications	\$2,500.00	\$2,500.00	\$0.00	\$2,500.00
4	TBD	Caulking / Floodproofing Misc.	\$1,000.00	\$1,000.00	\$0.00	\$1,000.00
5	Manusos Contractors	Concrete Curb + Sealing	\$15,340.00	\$14,450.00	\$14,450.00	\$0.00
6	TBD	Concrete Flatwork/Sidewalks	\$3,475.00	\$3,475.00	\$0.00	\$3,475.00
7	NMWRD	Demolition	\$20,000.00	\$5,000.00	\$0.00	\$5,000.00
8	NMWRD	Dumpster	\$400.00	\$0.00	\$0.00	\$0.00
9	TBD	Dumpster Enclosure - Door	\$0.00	\$2,000.00	\$0.00	\$2,000.00
10	Various	Dumpster Enclosure - Misc.	\$0.00	\$500.00	\$313.83	\$186.17
11	Alexander Lumber	Dumpster Enclosure - Lumber	\$0.00	\$1,372.70	\$1,372.70	\$0.00
12	ABC Supply	Dumpster Enclosure - Siding / Roofing	\$0.00	\$522.35	\$522.35	\$0.00
13	NMWRD	Dumpster Enclosure + Installation	\$32,500.00	\$0.00	\$0.00	\$0.00
14	TBD	Electrical - Labor	\$13,000.00	\$12,000.00	\$0.00	\$12,000.00
15	TBD	Electrical - Materials	\$3,000.00	\$3,000.00	\$0.00	\$3,000.00
16	TBD	Flood Barrier Panels	\$49,750.00	\$15,000.00	\$0.00	\$15,000.00
17	TBD	Flood Barrier Panels Installation	\$6,000.00	\$5,000.00	\$0.00	\$5,000.00
18	TBD	HVAC - Raise A/C Unit	\$500.00	\$500.00	\$0.00	\$500.00
19	Don's Welding	Ladder Mods & Re-Installation	\$500.00	\$198.00	\$198.00	\$0.00
20	TBD	Landscaping	\$2,000.00	\$2,000.00	\$0.00	\$2,000.00
21	TBD	Masonry	\$2,800.00	\$7,000.00	\$0.00	\$7,000.00
22	Dahme Mechanical	Mechanical - Wet Well	\$20,000.00	\$12,925.00	\$0.00	\$12,925.00
23	Hollaender	Metals - Railing	\$2,500.00	\$3,921.27	\$3,921.27	\$0.00
24	TBD	Metals - Stairs + Platform	\$1,000.00	\$1,000.00	\$0.00	\$1,000.00
25	Breuer Metal Craftsmen	Metals - Steel Beams/Grating/Angles	\$19,100.00	\$14,200.00	\$927.14	\$13,272.86
			\$216,865	\$130,314	\$21,705	\$108,609

SOFT COSTS

#	Name	Description	EOPC *	Estimated	Pd to Date	Balance Due
1	NMWRD	Bonds & Insurance	\$2,460.00	\$0.00	\$0.00	\$0.00
2	Various	Contingency	\$13,700.00	\$13,700.00	\$0.00	\$13,700.00
3	Trotter & Assoc.	Engineering - Design Drawings	\$0.00	\$17,000.00	\$17,000.00	\$0.00
4	Trotter & Assoc.	Engineering - Record Drawings	\$5,000.00	\$5,000.00	\$0.00	\$5,000.00
5	Trotter & Assoc.	Engineering - Submittal Review	\$0.00	\$2,875.00	\$0.00	\$2,875.00
6	NMWRD	Overhead & Profit	\$24,590.00	\$0.00	\$0.00	\$0.00
7	NMWRD	Supervision	\$24,000.00	\$0.00	\$0.00	\$0.00
TOTAL SOFT COSTS			\$69,750	\$38,575	\$17,000	\$21,575

GRAND TOTAL	\$286,615	\$168,889	\$38,705	\$130,184
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* EOPC (Engineers Opinion of Probable Cost) provided by Trotter & Associates dated October 9, 2018



NMWRD November 2018 Operations Report

As of December 4th

Prepared by: Luke Markko Superintendent

- **Prairie Woods Generator Update** – Alternate Power performed significant repairs to the backup generator serving the Prairie Woods Lift Station. The flywheel on the engine had been damaged resulting in the need to separate the engine from the generator to allow access for repairs. The distributor was also replaced. The nature of the repair required a temporary enclosure to provide a safety barrier, prevent vandalism, and protect the exposed components. A portable awning and temporary fence were purchased to meet these needs. They can be used in the same fashion during the Lift Station Standardization Project.



Tent & temporary fence around Prairie Woods Generator



Prairie Woods Generator under repair

- **Lift Station Standardization Project** – As the design for the Lift Station Standardization has progressed, it became apparent that for operator safety the control panels be separated into two parts. One part housing the controls that operate on 120 VAC or less, and the other housing the components that manage the higher voltages 240 VAC & 480 VAC. A “Controls” panel and a “Power” Panel. Mohammed and I met with an electrical engineer from Newcastle Electric to review resubmittals from a panel building contractor known as Stacon that has been coordinating the design of the “Controls” panels. Revisions have been made at our request on items such as breakers in lieu of fuses, placement of external components, and safety conscious component changes that eliminate the potential for operator error. We are very close to having a completed control panel design that will be the standard for all of the District lift stations. Work continues in design of the “Power” panel. This is where some variability is necessary due to differences in incoming voltage and pump sizes. Our focus is moving here as we approach completion of the “Controls” panel.
- **Heat Trace Repairs** – Repairs were made to the heat tracing on the old Screener Conveyor and the Raptor Rotating Drum Screen. The heat trace consists of a wire that is looped around and around the outer casing of each unit. The purpose is to prevent freezing and jamming issues with the screenings being conveyed by the auger inside. These repairs became a priority as we entered the colder months.



- **Flood-Proofing & Related Work**

- **Curb Installation** – An electrical conduit that supplied power to the fan and lights in the old enclosure over the Raw Wet Well was removed. A new curb was framed and poured by Manusos Contracting around the wet well to bring the top of the well up 18 inches. This is associated with the flood-proofing plans for the control building.



Curb form and reinforcing rebar installation

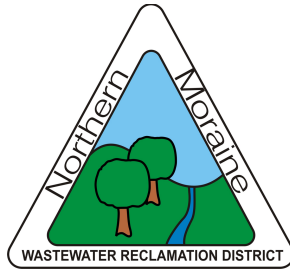


Completed curb

- **Ladder & Grating Modifications-** With the additional 18 inches of wall height at the wet well, the existing aluminum ladder was inadequate for entry and egress. It was removed by District staff and taken to Don's Welding to have an additional rung added. Along with the ladder, a section of the aluminum floor grating was removed and modified with an access hole. The hole will allow a pipe to be extended from the top of the well to the channel that brings raw wastewater into the wet well. This will allow the raw sampler tube to be fed through the tube and provide easy access for replacement and maintenance.
- **Dumpster Enclosure** – District staff have begun construction of an enclosure to house the dumpster that receives the screenings from the Raptor Rotating Drum Screen and old Rotamat Screener. The purpose of the enclosure is to protect the screener discharges and dumpster from freezing.



Dumpster enclosure framing



- Old Screenings Conveyor** – After repeated attempts to repair the old screenings conveyor, it was determined that it had reached its end of serviceable life. The unit is over 20 years old, and further repairs would be cost prohibitive. The unit was removed and kept onsite so that the insulated casing and recently repaired heat tracing can be salvaged and installed on the replacement conveyor that has been ordered.



Screenings Conveyor removed from Raw Wet Well



Storage of Conveyor for parts salvage

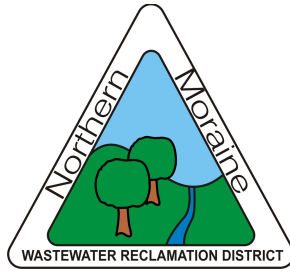
- Landscaping Restorations** – Accent Landscaping has performed restoration work to the treatment plant site where the fiber optic cable runs were installed. Topsoil and seed blankets have been placed over the restorations. They have also performed some prep work on the driveway near the chemical building and behind the clarifiers. The asphalt near the chemical building was in disrepair and was removed in anticipation of new pavement being installed next spring. There is a gravel drive that wraps around the West side of the chemical building and comes up between the two clarifiers. This has been used to allow the Vactor access to the clarifiers to allow maintenance related cleanings. Accent Landscaping has built up this drive with stone to fill in preparation for pavement and to bring it up to meet the new sidewalk that was poured between the two clarifiers.



Topsoil and seed blanket restorations



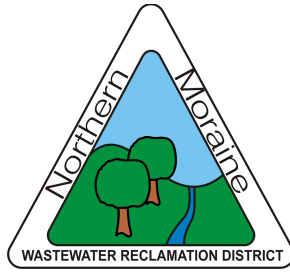
Topsoil and seed blanket restorations



- **Safety Training** – Utilizing our new office space and displays, Operators and the District’s Junior Engineer received Safety Training on Confined Space Entry, Fall Protection, and Lock Out/Tag Out. Confined space entry involves having a person available to monitor whoever is entering a confined space, atmospheric monitoring to ensure that the air is safe to breathe, establishing a way to enter and leave the confined space, and a method of retrieval in the event of an emergency. Fall protection at the District often goes hand-in-hand with confined space entry due to the nature of the spaces staff are entering. It usually involves using a ladder to enter a tank or manhole structure. The idea behind fall protection is to prevent a fall utilizing a safety harness, along with a fall arresting mechanism that will slow the descent to minimize injury in the event of a fall, and provide a mechanism for retrieval. Lock Out/Tag Out involves protecting personnel from hazardous energy sources and materials. It establishes a methodology to ensure that electrical components are de-energized and physical locks are installed to prevent someone from turning the equipment on while it is being serviced. The same idea applies to a water or chemical valve being physically disabled so that service can be performed on the downstream side of the valve.



Staff Safety Training



- **Hyper + Ion Delivered** – As mentioned in previous reports, the chemical known as RE-100 that was under trial as a method of treating for phosphorous removal in the waste stream proved less effective than anticipated. District staff have located another chemical known as Hyper+Ion to treat for phosphorus. Initial test numbers indicate that this will be a better alternative to the RE-100 and can be applied at a reduced expense. An initial delivery of 10 totes was ordered and will serve as a trial run to determine the long term effectiveness.



Hyper + Ion totes delivered and ready for trial

- **NMWRD Welcomes New Part Time Lab Tech** – I am happy to welcome Emily Lecuyer to the NMWRD team! Emily started with the District toward the end of November. She is currently performing laboratory sampling and analysis three days per week. We were fortunate enough to arrange for her to receive some training by Emma Kohl, the lab tech from Crystal Lake. Emily shadowed her for a couple of days and the benefit of learning from an experienced lab tech such as Emma has really shown. Emily has demonstrated a level of significant independence in the lab after just a short time on the job. She has even begun assisting in plant operations as well. We look forward to seeing what Emily brings to the team!
- **Verizon Fleet** - Plans are underway to establish a program that allows tracking of District vehicles and their individual usage. Verizon offers systems that not only tell staff where the District vehicles are located and where they've been, but also provides data on speed, engine conditions, PTO status on the Vactor and Crane trucks, even seatbelt usage. In light of the many repairs that have been required on the aging fleet, this will allow staff to use technology to develop strategies for maintenance, vehicle-to-task management, and efficiencies in routing for routine inspections of the District's many lift stations.

NMWRD Engineering Report
Date: December 7th, 2018
Prepared by: Joe Lapastora, Junior Engineer

River / Dowell Road Roundabout:

[Project Update] – The Roundabout is open with an anticipated date of final completion in December.

Woodman's Lift Station and Sanitary Sewer Additions:

[Project Update] – Sanitary services for the Woodman's building have been completed and passed all accompanying testing, however, they are not yet connected to the in-house plumbing. As for the gravity main that will transport all sanitary flows to the new Lift Station, a total of 5 structures have been set and the installation of the sanitary gravity main has been progressing slowly due to inclement weather.



View of unfavorable weather conditions and current progress.



Picture of covered trench to deal with the inclement weather.

Savannah's of Lakemoor Residential Subdivision:

[Project Update] – Last month's dewatering efforts via two dewatering wells were successful as PirTano was able to breach into an existing District manhole. Through the course of November, a total of four (4) manholes have been set with the associated sanitary stubs along the pipes that have been completed. As of December 3rd, the curb has been poured and sanitary sewer work is on hold until the second week of December. This project is still in its early phases and work will continue through the winter.



Picture facing North taken from Rt. 120 (In line with sanitary sewer).



Picture of structure MH-A facing East.

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

[Project Update] – Construction crews have stripped the parking lot of the law office that the right turn lane will replace. A right turn lane will be constructed on Route 176 turning South onto Roberts Road and no district infrastructure will be affected. Note that it is the District's intention to ensure that all manholes that lie within the project extents are at grade and uncovered when the project is completed. We anticipate working with the construction crew to reveal a buried manhole cover.

Deer Grove Sanitary Sewer Extension:

[Project Update] – This project officially started in early November. Wilkenson Excavating is doing all work relating to the District and as of December 3rd, construction crews have finished a manhole tie-in to an existing sanitary gravity main along Noble Drive while also completing the sanitary sewer extension and accompanying manhole that runs East-West on Noble Parkway. Wilkenson Excavation is still awaiting the arrival of the saddle tee's in order to complete new sanitary stubs.



In-trench view of manhole tie-in to existing gravity main.



Picture of manhole after successful tie-in.

NMWRD Floodproofing:

Menusos General Contracting successfully poured the concrete curb around the wet well at the plant during the week of November 19th. Additionally, they were able to install a new ladder on the inside East wall while also removing the Easternmost conveyor in the last week of November.



Picture of the supports that were used to pour the concrete curb.



Picture of the concrete curb after drying.



New wall mounted ladder within wet well.



View of the removed conveyor within the wet well.

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

- The District's online ArcGIS page has been completed. This web-based map will provide a user-friendly experience for all residents that want to identify parcels within the district. Additionally, we will eventually utilize ArcGIS to geolocate our sanitary sewer infrastructure.
- Conveyor research is being conducted. The District is looking for a reliable and non-expensive conveyor that will transport all solids coming from the centrifuge to a central location. It is the District's hope that the new setup will free up time for operators to work on plant operations.
- A plant drone flyover was recently performed. All pictures and links to the data have been saved and I am currently waiting for drone GIS data to implement it into our ArcGIS.
- Fiber conduits have recently been installed at the treatment plant as the District moves forward to create a reliable SCADA system. Additionally, the District's Adviser, District Manager, Superintendent and Junior Engineer sat down to discuss what kind of probes/instruments will be needed for our future SCADA system.
- A small reconfiguration of the non-potable water was performed in an effort to decrease the freezing of NPW lines during the winter.
- Internal review of the District's infrastructure via RedZone televising data. A Capital Improvement Plan (CIP) will eventually be developed for future use. This is something that the District will hit hard during the months of December and January.
- Review of all District ordinances to update any outdated references or ordinances. This is also something that the District will hit hard during the months of December and January.



DELINQUENT ACCOUNTS RECAP

Revised: 12/06/18 by Debi Martin, District Clerk

\$200-\$300

45 Active Accounts

Island Lake – 34 customers
1 payment agreement, 1 Sewer Disconnection Notice, 32 due for Water Shut Off Notices
Lakemoor – 9 customers
4 Sewer Disconnection Notices, 5 due for Water Shut Off Notices
Port Barrington – 2 customers
1 Sewer Disconnection Notice, 1 payment agreement

\$301-500

12 Active Accounts

Island Lake – 1 customer
1 with water off
Lakemoor – 7 customers
7 Sewer Disconnection Notices
Port Barrington – 4 customers
4 Sewer Disconnection Notices

\$501-\$1000

11 Active Accounts

Island Lake – 3 customers
3 liens – 3 with water off
Lakemoor – 6 customers
3 liens – 1 with water off, 3 to be disconnected, 2 Sewer Disconnection Notices
Port Barrington – 2 customers
2 liens – 2 to be disconnected

\$1001 and up

9 Active Accounts

Island Lake – 5 customers
5 liens – 5 with water off
Lakemoor – 4 customers
4 liens – 2 sold for delinquent taxes, with 1 to be demolished, 2 to be disconnected

Delinquent Accounts total (active and inactive customers): \$48,549.68 (\$15,631.12 inactive accts)

November 2017's report: \$49,447.42

November 2016's report: \$41,847.46

MONTHLY ACTIVITY:

4846 Monthly Bills mailed on 12/01/18
338 Bills not mailed – customers prepaid on their accounts
19 Sewer Disconnection Notices to be mailed on 12/07/18
123 Notices of Delinquency to be mailed on 12/07/18
15 Final Notices of Delinquency to be mailed on 12/07/18
2 Liens Filed
3 Liens Released
17 Real Estate Closings for November 2018

****BECAUSE DECEMBER'S DUE DATE FALLS SO CLOSE TO CHRISTMAS, WATER SHUT OFF NOTICES WILL NOT BE MAILED TO RESIDENTS THIS MONTH****



Northern Moraine Wastewater Reclamation District

113 Timber Trail
Island Lake IL 60042

AGENDA REGULAR MEETING 7:30 P.M. December 11, 2018

1. **CALL TO ORDER & ROLL CALL**
2. **PLEDGE OF ALLEGIANCE**
3. **PRESENTATION & APPROVAL OF MINUTES**
 - a. Regular Meeting Minutes – November 13, 2018
 - b. Executive Session Meeting Minutes – November 13, 2018
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. Semi Annual Review of Strategic Plan
10. **NEW BUSINESS**
 - a. Approval of payment to McDOT for Force Mains Relocation – Dowell Road Roundabout
 - b. Approval of 2019 NMWRD Board Meeting Dates
 - c. Approval of 2019 Holiday Schedule
 - d. Emergency Screw Conveyor Order
11. **MISCELLANEOUS CORRESPONDENCE**
 - a. MCGG Annual Holiday Meeting – Wednesday, December 12, 2018 – Bull Valley Golf Club, Woodstock, IL
12. **APPROVAL OF BILLS**
13. **OTHER BUSINESS**
 - a. Executive Session – Personnel; Purchase or Lease of Real Estate