

Muddy for a Mission



McMAHON, a proud sponsor of the Warrior Princess Mud Run, sent a team of warriors to participate last Saturday in the event.

The Warrior Princess Mud Run is a non-competitive 5K adventure run and obstacle course and is the largest fundraiser of the year for Harbor House Domestic Abuse Programs. Participants have raised over \$240,000 for Harbor House.

ABOUT HARBOR HOUSE

Harbor House Domestic Abuse Programs lead a community-wide partnership in the awareness and prevention of domestic violence and abuse. The organization also offers safety and support to diverse families and individuals in crisis. Established in 1984, Harbor House is the only organization offering safe haven and outreach programming to victims and survivors of domestic abuse throughout Outagamie and Calumet counties in Wisconsin. Each year the organization serves more than 1,600 children and adults.

New Hires

McMAHON is pleased to announce the following additions to our staff.



Chelsea Bollen, P.E.
Civil Engineer
Machesney Park office



Steven Vaccaro, P.E.
Electrical Engineer
Neenah office



this issue

Mud Run / Hires / From the President **P.1**

ThedaCare Physicians Neenah / Q&A **P.2**

Little Chute P3 Storm Sewer Project **P.3**

Featured Client: Allouez **P.4**

From the President...

I hope the summer has been as good for you as it has been for me, and our McMAHON family.

We are growing, and with that, there has been a need to look at options for how to accommodate our growth. I'm excited to announce that McMAHON has made the decision to stay in our Neenah, WI headquarters location where we have been for 20 years and expand our current building by approximately 12,000 square feet! Along with that decision, our Indiana location will also be getting a 'face lift'.

Even with our unprecedented growth, our biggest problem continues to be the inability to find qualified engineers and architects that fit into the "McMAHON Way" of doing things. Let's hope that we can solve this problem soon, because with the addition of our affiliate company Integrated Public Resources (IPR), we estimate that our workload will increase.

Speaking of IPR, we have had a great start with several interesting projects on the horizon with our first project going to construction in a week or so. There was an article in the Times Villager, associated with IPR describing this project (see page 3). I'd like to thank a few people that have been instrumental in starting this company: TJ Lamers, Matt Greely, Rick Hermus, Nick Vande Hey, and Vic Lutz. Without their efforts, this company would still be an idea.

Lastly, thanks to all of you for allowing us to be your partner, when working on solutions to keep your communities and businesses thriving and moving forward. We hope to continue to deserve your respect and your loyalty for years to come.

Denny Lamers

ThedaCare Physicians Neenah to Build New Facility

Over the past 5 years, McMAHON has been assisting ThedaCare in looking for and obtaining an appropriate site in the Neenah area on which to construct a new medical clinic facility that would replace two existing family practice facilities and expand existing services. Location, especially relating to ease of access to and from Highway 41 was vital. With the help of local prominent individuals, ThedaCare found and decided upon a site on the east side of Green Bay Road, just off of the Winchester Exit of Highway 41 and is currently in the process of acquiring the 10 plus acre site.

The original program for the new facility that was developed in June of 2014 was for a proposed two story building of approximately 52,136 square feet. The current project under design is a three story building of approximately 72,000 square feet. The current three story portion of the facility includes Family Practice and Internal Medicine “Pods” on the second and third floors. The first floor of the facility contains administrative functions, blood draw, laboratory services, and imaging services. All of the floors contain ample waiting areas, support areas and special meeting facilities. In addition to the three story portion of the building is a one story portion housing Medical Oncology. ThedaCare is currently constructing a Regional Cancer Center on the north side of Appleton. This Medical Oncology portion of the Neenah facility will function as a satellite location for the Regional Center.

The building design is organized around public (“on-stage”) and semi-private (“off-stage”) circulation paths. The public circulation is obvious and apparent from the exterior as the three story white panel and glass structure that runs the length of the front of the building. The design and location of the public circulation path as designed greatly assists with “way-finding” which tends to be a difficult task in larger facilities. The semi-private circulation path traverses the back of the building along the back side of the “Pods” on the upper floors and the ancillary services located on the first floor. Patients often travel from the upper floor “Pods” to the lower level ancillary services for blood work and imaging. This “off-stage” path allows patients and staff to circulate more privately and more efficiently which supports established processes and workflows.



The building and site have been designed to allow for a three story expansion of approximately 20,000 square feet.

The ThedaCare Physicians Neenah project is being designed and constructed through an Integrated Project Delivery process with Boldt acting as the Construction Manager. McMAHON is providing services for all aspects of the project with over 30 McMAHON team members already participating to this point in the process. Construction is scheduled to start in late summer and is scheduled to be completed in August of 2016.

This Month's Q&A

Q: Is there any new technology in the A/E fields that McMahon is implementing?

A: There are several new technologies McMAHON is researching with regards to our BIM (Building Information Modeling) initiative. One that we're really excited about is the use of UAVs (Unmanned Aerial Vehicle) or “Drone” for digital photogrammetry to create digital 3D terrain and building models! A camera mounted to the UAV takes high definition photos or video which we upload to software that stitches the photos together and then converts points in the photos to a 3D mesh or point cloud. This point cloud 3D model can be highly accurate and can take days off of the field verification process for measuring existing topography or buildings. We can directly import this point cloud into our design software and start out a project with an accurate 3D representation of the existing conditions. This use of the UAV is just the tip of the iceberg and we are really excited to see where we go from here!

To learn more about this new technology and its uses, contact Sam Tijan at stijan@mcmgrp.com or call 920.751.4200

Public-Private Entity to Construct Little Chute Storm Sewer Project

Story by Tom Collins, reporter story as appeared in Times-Villager 7/29/15

A unique private and public project mix will help with storm water issues in one area of the Village of Little Chute. The project is a combination of private initiative working with an off-shoot business connected with a local engineering firm and in cooperation with village officials. The storm water project will be constructed in the Randolph and Hartzheim Drive vicinity, just east of Freedom Road (Highway N), north of I-41 and south of Evergreen Drive.

A unique private and public project mix will help with storm water issues in one area of the Village of Little Chute. The project is a combination of private initiative working with an off-shoot business connected with a well-known engineering firm and in cooperation with village officials.

The storm water project will be constructed in the Randolph and Hartzheim Drive vicinity, just east of Freedom Road (Highway N), north of I-41 and south of Evergreen Drive.

Key to the project is an entity called Integrated Public Resources. The company is an affiliate of McMAHON which works in several communities, including Little Chute. The storm sewer project has been gathering momentum since spring, according to Village Administrator James Fenlon.

Fenlon explained IPR was created by McMAHON to step in when there is interest in such a hybrid project with both public and private interests. In this case, five property owner-investors approached the Little Chute Plan Commission with the idea of a possible storm sewer line and their individual ideas for business growth or expansion in the area.

The village saw an ultimate advantage in being able to control storm water runoff from the current and future business growth in the Hartzheim and Randolph vicinity and worked to support the essentially private efforts.

"They (IPR) can plan, go out for bids or quotes and execute and manage the work, then turn it over to the municipality as a publically-owned infrastructure," Fenlon explained.

Fenlon also explained ditches have been carrying storm water for the neighborhood but could not handle the planned business expansion and growth, particularly with the added impervious surfaces. "If you improve the sites and add more impervious area, the ditches that currently transport this water to Ebben Pond couldn't handle the capacity," Fenlon explained. "What you end up with is a risk of flooding the Ebben Pond subdivision."

The storm water project takes water from both Hartzheim and Randolph as well as the park-and-ride lot at the corner of Evergreen Drive and Highway N. The line will carry the water to Ebben Pond.

The property owners essentially pay for the project. Fenlon explained the project allows the property owners to develop or expand, based on their individual plans. In one case, a Randolph Drive business is considering a 10,000 sq.ft. expansion.

A trusted and familiar McMAHON personality, engineer Nick Van De Hey, is leading the IPR project. The storm water infrastructure may be completed as soon as November.

There is an outside possibility that one of the streets, likely Hartzheim Drive, may be vacated and Public Works Director Roy Van Gheem said Randolph Drive eventually needs attention and reconstruction of its utilities. Any changes or reconstruction of streets will likely be down the line but the unique public and private stormwater project helps everyone involved in the short term. An existing ditch network still will carry water from the I-41 and N interchange vicinity. That remains and is separate from the neighborhood stormwater project.



Bing Map of Little Chute Storm Sewer Project Area

COMMUNITY CONNECTION

McMAHON is proud to support programs and events that help individuals and organizations make our communities a better and more enjoyable place to live. Some recent sponsorships and contributions made by McMAHON include:

- YMCA of the Fox Cities - "YMCA Growing Stronger Together Capital Campaign"
- WWOC Lake Michigan District - Regional Operators' Meeting - Break Sponsor
- Menasha Twins - Legion Baseball
- St. Clare School - Wrightstown
- CommunityFest
- Norbert Gossens Memorial Fishing Tournament
- Harbor House Domestic Abuse Programs Warrior Princess Mud Run
- Boys & Girls Clubs of the Fox Valley
- Touch of Silver Twirling Corp - Golf Outing
- Fox Cities Chamber of Commerce - Golf Outing Raffle
- Michael's Miracle Benefit
- Woodland School PTO - Fun Run
- IAWA - Golf Outing (Illinois)
- Poplar Grove Lions' Club & Village of Poplar Grove - Neighbors Night Festival
- Habitat for Humanity - Hard Hat & Heels Gala w/Jordy Nelson
- Freedom Alliance - McMAHON Walking Group match donation
- Appleton West - Golf Outing
- Appleton Girls Hockey Club - Golf Outing
- Players Cup - Make-A-Wish
- Jr. Gamblers Golf Outing



Featured McMAHON Client: Allouez, Wisconsin

Named after the French Jesuit priest and missionary, Father Claude-Jean Allouez, the Village of Allouez with its deep historic roots began as a shanty town along the banks of the Fox River. Allouez has grown into a quiet residential Village, with a population around 14,000, bounded on the west by the Fox River and the east by the East River.

Its significant river frontage along priority water sheds thrust the Village into the stormwater management business early on in the State regulatory process, taking the challenges of WI-DNR stormwater regulations head-on and making the decision to take a proactive approach. With its choice to be a stormwater leader, Allouez currently has six regional ponds enhancing water quality. Five ponds, located on Village-owned property and parkland, service the East River. The last pond serves the Fox River and is located on land leased from Heritage Hill State Park. All ponds feature beautiful wetland plants, stunning wild prairies and trail access for enjoyment by the community. The ponds were constructed and are maintained through State Non-point Source Grants, ARRA Funds and the Village's Storm Utility. The Village considers these ponds a tremendous asset to the community both for their designed function and aesthetic value.

McMAHON has been working with the Village since 1993. The Village has a small engineering staff and handles annual street, sewer and water projects. McMAHON works with them to "gap-fill" and provide professional services to enhance Village projects. This is a true team effort and provides the Village with high quality, cost-effective projects. Traditional, full engineering services are provided for larger, more complex projects requiring specialized engineering, including federally-funded transportation projects, larger utility relay projects, I&I studies, water modeling and distribution, as well as stormwater engineering.

Beautiful parks, Heritage Hill State Park, an incredible trail system (including the Fox River, Allouez Fox River Connection and East River Multi-model trails), relaxing regional ponds and a supportive business community make Allouez a wonderful place to live and visit. The benefits of a well maintained community can be found here!

Contact Us!

Neenah, WI
920.751.4200

Machesney Park, IL
815.636.9590

Valparaiso, IN
219.462.7743



www.mcmgrp.com



www.mcmgrp.com

920.751.4284 fax

920.751.4200 ph

Neenah WI 54957-1025

Mailing: P.O. Box 1025

Neenah WI 54956

1445 McMahan Drive



Clean Water Funding (CWF) & Safe Drinking Water (SDW) Funding Program Changes

The Wisconsin Department Of Natural Resources (DNR) Environmental Loans Section manages the **Clean Water Fund (CWF)** and **Safe Drinking Water (SDW)** Fund Programs. These programs provide financing to municipalities for water infrastructure projects.

Available financing includes low interest loans and “principal forgiveness” (grants). Principal forgiveness is distributed based on population, median household income and unemployment rate. Examples of eligible projects include wastewater treatment facility and collection system improvement/expansion projects, stormwater projects, drinking water system improvement/expansion projects, and pilot projects related to non-traditional wastewater projects, adaptive management, nutrient trading.

CWF / SDW Programs are established and regulated by the U.S. Environmental Protection Agency (USEPA) and administered by the Wisconsin Department Of Natural Resources (DNR). With the recent passage of the Federal Water Resources Reform and Development Act (WRRDA), which required changes to CWF / SDW Programs, Wisconsin DNR Environmental Loan Section Staff decided to review and update the funding programs overall.

McMahon Engineer, **Amy J. Vaclavik**, was a Member of the DNR Advisory Groups that provided input on the rule changes. Amy is available to answer your questions about these programs and the changes.

The following is a summary of major rule revisions and reminders of some existing requirements.

Submittal Of the Intent To Apply (ITA) & Priority Evaluation & Ranking Form (PERF)

October 31 is the new deadline for submittal of the Intent To Apply (ITA) and Priority Evaluation & Ranking Form (PERF). These forms must be submitted on-line, and you or your Engineer must obtain your Wisconsin User ID by **October 16** to access the online system. These forms must be submitted to establish project funding eligibility.

Fiscal Sustainability Plans (FSP's)

Fiscal Sustainability Plans (FSP's) are required for CWF projects. Many requirements of the FSP's are included in the Facility Plan, such as inventory of critical assets, evaluation of condition, and performance of assets. Additional requirements of FSP's include implementation of water and energy conservation plans, and plans for maintaining and repairing wastewater facilities. Costs associated with preparing the FSP's are eligible for CWF financing.

Clean Water Fund (CWF) Small Loan Program

Wastewater projects (up to \$2-million) may be funded through the Small Loan Program. The financing is provided by the State Trust Fund Program and the CWF provides an interest rate subsidy. This is an attractive, streamlined program for smaller projects because some of the Federal funding regulations, such as Davis-Bacon Wages and American Iron & Steel, do not apply but a low interest rate loan is provided.

Federal Water Resources Reform and Development Act (WRRDA) Changes Still In Effect On Clean Water Fund (CWF) / Safe Drinking Water (SDW) Projects

Davis-Bacon Wages and American Iron & Steel (AIS)

If you have questions regarding these programs, contact your McMAHON Engineer, or

Amy Vaclavik	avaclavik@mcmgrp.com	920-751-4200 Wisconsin Office
Tim Bronn	tbronn@mcmgrp.net	815-636-9590 Illinois Office
John Sturgill	jmsturgill@mcmgrp-in.com	219-462-7742 Indiana Office

Additional information and current interest rates are available at the DNR Environmental Loan Web Page: <http://dnr.wi.gov/Aid/EIF.html>

ILLINOIS and INDIANA PROJECT FUNDING

The Federal Water Resources Reform & Development Act (WRRDA) requirements have been in place for both the Illinois and Indiana State Revolving Loan Programs for some time. This includes Davis-Bacon Wages and American Iron & Steel requirements on all projects, and Fiscal Sustainability Plans for Clean Water projects.