

## Deer Run Golf Course

Date	What Took Place	Who Was Involved	Action Taken
April 2006	Deer Run Golf Course received notice from DNR that they received a complaint with regard to the dam structure on Black Creek.	DNR, Deer Run GC	Deer Run GC notified the City that the DNR has requested a meeting to review the structure. Deer Run GC asked the City to attend the meeting.
April 2006	Meeting at Deer Run Golf Course	Lee Reinke, DNR, Army Corp of Engineers, Mayor Sonnabend and the City Administrator	After walking the banks of Black Creek that run through the golf course and reviewing the dam structure, it was felt that the structure did not have any adverse affect on the lake to the east of the City limits. (Grass Lake)
September 2006	Deer Run GC received a notice from the DNR requesting a meeting at the GC to review the dam structure	DNR Regional Water Leader, DNR Upper Fox Watershed Basin Supervisor, DNR Water Management Specialist, Lee Reinke, Lee's Attorney, Lee's Bank Reps. (Calumet County Bank), the Bank's Attorney, Rep. Al Ott, the Mayor and City Administrator	Once again the dam structure was reviewed by those attending the meeting. It was suggested that Lee photograph the creek area during the months when flooding takes places. The DNR questioned whether or not the dam structure was legally authorized.
October 2006	Deer Run GC received a notice from the DNR	Deer Run GC, DNR	The notice stated that current DNR records indicate that the dam structure is not an authorized structure. The DNR gave Deer Run GC two options; The first option would be to submit an application including an after-the-fact fee to the DNR, together with engineering calculations and construction drawings showing modifications of the existing dam to meet current design and safety standards required by the DNR. The second option would be to abandon and remove the existing dam structure and return the stream area back to a non-impounded condition. The DNR gave a January 1, 2007 deadline if the first option is chosen.

### Deer Run Golf Course

December 2006	Deer Run GC requested an extension of the deadline	Deer Run GC, DNR	The DNR granted a six month extension and asked that documentation for permit application and the required engineering documentations be submitted to the DNR by July 1, 2007.
December 2006	Deer Run GC contacted an engineer to obtain a quote for the necessary engineering of the dam.	Deer Run GC, McMahon Associates	McMahon Associates indicated that an engineer review would cost anywhere from \$6,000 - \$15,000. The DNR permit fee is \$4,000. The timeframe to bring the dam up to DNR requirements would be 4 – 6 months. Lee Reinke indicated that he can not afford this and it could force him to close the business.
January – February 2007	The City contacted Eric Fowel from East Central Regional Planning Commission and scheduled a meeting with Deer Run to discuss option	Eric Fowel, Lee Reinke, the City Administrator, and the Community Development Director	<p>The City asked East Central to provide technical assistance in reviewing the situation. East Central feels that the periodic flooding along Black Creek is related to a number of factors with the watershed;</p> <ul style="list-style-type: none"> <li>▪ The dam restricts the flow of the creek during periods of high water and causes water to back up.</li> <li>▪ The channel between the dam and the Brillion Marsh has been the subject of significant management efforts in the past in order to improve the flow, including the removal of several structures and pesticide applications.</li> <li>▪ The CTH PP culvert may also restrict flow during certain periods of the year.</li> <li>▪ The construction of subdivisions on both sides of the golf course has increased the storm water during peak runoff periods.</li> </ul> <p>East Central suggested three actions/alternatives;</p> <ul style="list-style-type: none"> <li>▪ To their knowledge, no specific grant or low-interest loan dollars exist solely to pay for engineering cost associated with dam permitting, therefore the removal of the dam was suggested.</li> <li>▪ Work with downstream landowners and Calumet County to address potential channel improvements, and the CTH PP culvert, which will improve the flow. Funding may be available through DNR assistance.</li> <li>▪ Address existing and future urban storm water runoff contributions to the system in the drainage basin, which would require additional engineering studies. The concern</li> </ul>

### Deer Run Golf Course

			<p>of the ultimate cost to the City or its resident for constructing the necessary infrastructure should be noted. Lee indicated that he is willing to remove the dam structure if significant improvements can be made to the channel.</p>
March 2007	City meet with Dick Nikolai from the DNR to discuss the Brillion Marsh	Community Development Director, Dick Nikolai	<p>Points of the conversation were as follows:</p> <ul style="list-style-type: none"> <li>▪ Sediment has been a historic problem. In the mid-80's several structures were removed from the channel to improve the flow.</li> <li>▪ The DNR conducted herbicide treatments in 80's – 90's to open up the channel.</li> <li>▪ CTH PP culvert constricts the flow.</li> <li>▪ Adjacency to marsh increase odds of obtaining funding if conservation project initiated.</li> <li>▪ Land owner to the west of CTH PP intends to continue agricultural use of property.</li> <li>▪ Nikolai concurs with the need for basin-wide study/implementation.</li> </ul>
April 2007	City received a letter from the Board of Directors of Calumet County Bank	Calumet County Bank	The letter was an official request from Calumet County Bank asking the City to take immediate action to the situation.
June 2007	City organized meet at Deer Run Golf Course	Alderperson Gil Schneider, City Administrator Lori Gosz, County Planner Julie Heuvelman, County Highway Commissioner Mike Ottery, County LWCD Mike Haase, County Emergency Management Director Matthew Marmor, Jeff Weber and Brad Grant Calumet County Bank,	<p>The purpose of the meeting was to discuss a plan of action for the dam structure and DNR notice. Flooding problems within the Deer Run Golf Course and Brillion Marsh were also discussed.</p> <p>It was the opinion of the representatives from Calumet County that the Brillion Marsh has no affect to the flooding situation at the golf course. However, it was pointed out by City representatives that the Marsh does have an adverse affect to the City and Town properties on the northern fringe of the Marsh. The County has indicated that they will be working with the US Army Corp of Engineers to conduct a study of the Marsh, date to be determined.</p> <p>It was suggested to have the City conduct a storm water study of Black Creek.</p>

### Deer Run Golf Course

		David Stertz - WDNR, Miles Winkler WDNR, Jim Kettler - Lakeshore Natural Resource Partnership, Lee Reinke, Mayor Gerry Sonnabend, Erick Fowler - ECWRPC, Nick VandeHey - McMahon, Community Dev. Director Wayne Volkman.	
July 2007	City Council authorized McMahon to do conduct a 100- year flood study of Black Creek and to assist the City with developing storm water management ordinances.	City of Brillion and McMahon	<p>City approved an agreement for professional engineering services to assist with preliminary engineering calculations and a 100-year floodplain study that may be used to prepare an after-the-fact DNR permit application for the existing dam structure/pumping station. In addition, based on recommendations from East Central Regional Planning Commission, to assist the City of Brillion with development of an erosion control and storm water management ordinance.</p> <p>Floodplain Study - \$15,000 Ordinances - \$ 2,500</p>
December 2007	A meeting was held to discuss options for the dam structure.	City Administrator Lori Gosz, Miles Winkler - DNR, David Stertz – WDNR, Nick VandeHey – McMahon, Lee Reinke	<p>The purpose of the meeting was to discuss options for the dam structure. Three options were discussed:</p> <ol style="list-style-type: none"> <li>1. Submitting a permit application, after-the-fact permit fee, engineering calculations, and construction drawings which depict modifications to the dam structure such that current design and safety standards are met.</li> <li>2. Removing the existing dam structure and returning the stream to a non-impounded condition.</li> <li>3. Creating an overflow weir within the current golf cart path from the garage parking lot to the dam and submitting a permit application, after-the-fact permit fee, engineering calculations, and construction drawings which depict</li> </ol>

### Deer Run Golf Course

			<p>modifications to the dam structure such that current design and safety standards are met. The golf cart path will be lowered to act as a 100 year overflow weir such that any floodplain elevation increases due to the dam construction will be confined to the Deer Run Golf Course property.</p> <p>Lee Reinke authorized McMahon to proceed with the third option.</p>
Dec 2007	Deer Run Golf Course submitted a letter to DNR	Deer Run Golf Course and DNR	Deer Run Golf Course submitted a letter to the DNR requesting an extension for application of the structure and that the Golf Course would be making modifications to the existing structure before applying for the necessary permit.
Jan 2008	McMahon submitted follow-up letter to DNR	McMahon and DNR	McMahon submitted a supplement letter to Miles Winkler at the DNR regarding the Deer Run Golf Course dam structure and pumping station. The letter indicated hydrologic results and water surface elevations for option 1, 2, and 3.
Jan 2008	Deer Run Golf Course received a letter from the DNR	Deer Run Golf Course and DNR	Deer Run Golf Course received a letter from the DNR asking Lee to submit, no later than February 29, 2008, a letter indicating his intent to authorize the existing (or a modified) structure and date by which Lee will apply to do to, or a letter indicating Lee's intent to remove the structure and the date by which Lee will have accomplished the removal.
Feb 2008	Follow-up meeting.	Nick VandeHey – McMahon, Lee Reinke, City Administrator Lori Gosz	<p>The purpose of the meeting was to address the letter received by Lee from the DNR. It was agreed that McMahon would draft the response letter to the DNR for Lee's signature.</p> <p>The next steps to proceed with Option 3 were also discussed. The following was agreed upon;</p> <ul style="list-style-type: none"> <li>▪ McMahon to submit Floodplain Study to DNR for review.</li> <li>▪ After DNR review, McMahon will proceed with FEMA submittal process.</li> <li>▪ McMahon will proceed with DNR permit approvals.</li> <li>▪ Once permitted by DNR, DNR will give time frame to have structure modification complete. It was the intent that Lee would have actual work done in Fall of 2009.</li> </ul>

### Deer Run Golf Course

April 2008	City Council authorizes McMahon to complete final engineering.	City of Brillion, McMahon Engineering, Deer Run Golf Course.	<p>The City Council authorized McMahon to final engineering calculations for 100-year floodplain study, and regulatory permit applications for the existing dam structure and pumping station.</p> <p>Cost for final engineering were as follows:            Inspection of dam structure - \$2,700 (paid by City and billed to Deer Run Golf Course)            Grading Plan &amp; Erosion Control Plan - \$1,500 (paid by City and billed to Deer Run Golf Course)            100-year floodplain study - \$3,700 (City paid)            DNR regulatory permits - \$2,100 (paid by City and billed to Deer Run Golf Course)            FEMA 100-year floodplain submittal - \$4,200 (City paid)</p> <p>Completion schedule was from April 31, 2008 to April 31, 2009 (Completion schedule depends on the amount of time required for DNR and FEMA Staff to review and approve each submittal packet.)</p>
August 2008	100-year Floodplain Study complete	McMahon	McMahon completed the 100-year Floodplain Study.
November 2008	Plans submitted to DNR	McMahon	McMahon submitted a set of plans for the Dam Observations & Golf Cart Path Modifications. The City and Lee Reinke received a copy of the plans.
April 2009	Storm Water Utility presentation	McMahon	<p>McMahon presented to the City Council/Plan Commission/Utility Commission a Storm Water Utility presentation to explain how a Storm Water Utility functions and the steps to forming a Storm Water Utility. Engineering costs to establish would be between \$10,000-\$15,000.</p> <p>The City Council felt more information would need to be provided before Council could take action to move forward. The Council and Plan Commission were not in favor of forming another Commission, and suggested that the Water and Sewer Utility Commission oversee the Storm Water Utility operations. The Water and Sewer Utility Commission stressed concern with</p>

### Deer Run Golf Course

			<p>implementing another fee with the recent water and sewer utility rate increase. The Water and Sewer Utility Commission recommended the development of a Storm Water Utility be considered in a few years.</p> <p>No further action was taken.</p>
July 2009	Meeting to discuss Deer Run Golf Course	Nick VandeHey – McMahon, Lee Reinke, Mayor Gary Deiter, City Administrator Lori Gosz.	<p>The purpose of the meeting was to discuss options for diverting storm water from flowing through Deer Run Golf Course. Options discussed were; developing ponds to release water slower through the golf course, educating residents on the use of rain gardens and rain barrels, require that the next phase of Fawn Ridge Subdivision have detention ponds.</p>
Sept 2009	Meeting with DNR to discuss Brillion Marsh	Al Strantz, Linda Hyatt, and Dick Nickoli from the DNR, Amy Vaclavik from McMahon, Mayor Gary Deiter and City Administrator Lori Gosz	<p>The purpose of the meeting was to discuss the Brillion Marsh and how it is affecting the following three areas in the City:</p> <ul style="list-style-type: none"> <li>▪ Deer Run Golf Course – Black Creek</li> <li>▪ Peters Park Storm Sewer</li> <li>▪ Ariens Plant #1/Center Road</li> </ul> <p>Options were as follows:</p> <p>Ariens ditch:</p> <ul style="list-style-type: none"> <li>▪ Box culvert by Ariens and Northway Drive will be abandoned with 2012 USH 10 project.</li> <li>▪ DOT will clean up rip rap during 2012 USH 10 project.</li> <li>▪ City engineer will work with DOT surveyor on box culvert elevations.</li> <li>▪ Spraying to be done by DNR at triangle where Spring Creek meets the Ariens Ditch in the Marsh.</li> </ul> <p>Peters Park Storm Sewer:</p> <ul style="list-style-type: none"> <li>▪ DNR will give City permit to clean up debris just west of Sunset Road on Spring Creek. Plan to clean up in August 2010. Look for volunteers to help.</li> <li>▪ Televis storm sewers by Peters Park.</li> <li>▪ Work on efforts to slow down flow in Spring Creek from up stream.</li> </ul>

### Deer Run Golf Course

			<p>Deer Run Golf Course:</p> <ul style="list-style-type: none"> <li>▪ DNR to spray Black Creek, Spring Creek and Manitowoc River. Dick Nickoli indicated that the DNR sprayed the entrance of Spring Creek and Black Creek in the Marsh in 2007 and 2008 and we would not see the true effect until 2010 or 2011.</li> </ul> <p>Community Involvement: Educate the public on importance of not littering areas near water flows. Talk to Town of Brillion reps.</p>
February 2010	Meeting with DNR to discuss Brillion Marsh	Mayor Gary Deiter, City Administrator Lori Gosz, Al Strantz and Dick Nickoli from the DNR, Eugene McCloud from Calumet County, Dennis Jandrey – City DPW.	<p>The purpose of the meeting was to follow up on items discussed at the Sept 2009 meeting. The following was discussed:</p> <ul style="list-style-type: none"> <li>▪ Clean up of trees by Sunset Road. Dennis suggested dredging to make a ditch in the Marsh. Dick state dredging will not always make it flow any faster, the area is flat and has little to no flow.</li> <li>▪ Eugene suggested conducting a storm water management plan.</li> <li>▪ Dick suggested educating property owners to limit fertilizing with phosphorus materials.</li> <li>▪ Dick suggested spraying Spring Creek for Japanese Knot Week in summer of 2010. This spraying takes a couple of years to be total successful.</li> </ul>
August 18, 2010	Meeting to discuss options for Golf Course	City Administrator Lori Gosz, Alderpersons Cheryl Welch, Bob Brick, Steve Schlies, DPW Leadman Dennis Jandrey, Nick VandeHey and Amy Vaclavik from McMahan, and Wally Sonnabend	<p>The purpose of the meeting was discuss options for the Golf Course to address flooding. The following was discussed:</p> <ul style="list-style-type: none"> <li>• Regional Flood Control Facility <ul style="list-style-type: none"> <li>○ 978 acre watershed (drainage area B1, B2, B3 of map on 100 Year Flood Study)</li> <li>○ 13 acres land acquisition for flood control facility</li> <li>○ Approx. Cost = \$700,000 to \$1,600,000</li> <li>○ No guarantee that this option would prevent future flooding of the Golf Course</li> </ul> </li> <li>• Raise Golf Course by 1 ft.</li> <li>• Lee's Option <ul style="list-style-type: none"> <li>○ Abandon 2 golf holes that flood and let the area turn into wetland</li> </ul> </li> </ul>

### Deer Run Golf Course

			<ul style="list-style-type: none"> <li>○ Develop 2 new golf holes on Fawn Ridge Subdivision property</li> <li>○ Ask City to: <ul style="list-style-type: none"> <li>▪ Purchase the 9.06 acres from Fawn Ridge for the development of 2 new holes. Purchase price = \$190,000</li> <li>▪ Give Reinke \$100,000 toward the development of the holes. Est. cost to build 2 new holes = \$150,000.</li> </ul> </li> </ul>
October 6, 2010	Meeting to discuss next move	Nick VandeHey, Cheryl Welch, Mayor Deiter, Lori Gosz, Lee Reinke, Fred Wenzel, Rob Jensen	<p>Goal of the meeting was to put together a timeframe for Lee's Option to present to City Council.</p> <ul style="list-style-type: none"> <li>● Lee to stack out how much property on Fawn Ridge he needs for 2 holes.</li> <li>● Fred/Rob to review and see what they have and map it out.</li> <li>● Present map and purchase offer to City Council on 10/25/2010.</li> <li>● Lori to find stormwater utility easement by Willie Schad's property. Note: This was found between the City and Art and Mary Zinkel dated Nov. 26.1974.</li> </ul>
October 20, 2010	Meeting to discuss findings and presentation to City Council	Nick VandeHey, Rob Jensen, Fred Wenzel, Lee Reinke, Mike Angoli, Gary Deiter, Lori Gosz	<p>The following was discussed:</p> <ul style="list-style-type: none"> <li>● 9.06 acres for 2 golf course fairways is needed.</li> <li>● Wetland delineation was done in 1998.</li> <li>● 18 lots Fawn Ridge would lose, \$20,000/lot average, \$360,000 total.</li> <li>● Fawn Ridge would ask for \$190,000 for the 18 lots in the 9.06 acres.</li> <li>● Deer Run would ask for \$100,000 from the City for the cost to develop the 2 fairways.</li> <li>● If Fawn Ridge develops the area they would do it in spring 2011.</li> <li>● City to purchase 9.06 acres from Fawn Ridge, then swap land with Reinke for 15 acres of wetland. City to pay Reinke \$100,000 for Lee's land for flood storage.</li> </ul>

### Deer Run Golf Course

May, 2011	City Purchased 9.06 acres of property from Fawn Ridge	City Council	City purchased 9.06 acres from Fawn Ridge in the amount of \$190,000, City then swapped the land with Lee Reinke for 15 acres of wetland. The City then paid Reinke \$100,000 for Lee's land for flood storage. Reinke was to use the \$100,000 to develop 2 fairways on the 9.06 acres.
September, 2012	Golf Course was sold	Calumet County Bank	Marvin Braun purchased the property.
May 9, 2013	Meeting with new owner of Golf Course	Glen Braun, Justin Linzmeier, Lori Gosz, Mike Angoli	The following was discussed: <ul style="list-style-type: none"> <li>• History of Black Creek and Brillion Marsh</li> <li>• City's plans for the 15 acres of wetland</li> <li>• Braun suggested that he would mark areas that he felt could be bermed.</li> <li>• Braun stated his main focus of the property would be the club house/restaurant by running his business 80% club house and 20% golf course.</li> <li>• Braun would locate depth of irrigation system to mark and ingress/egress easement for the 15 acres.</li> </ul>
August 26, 2013	Black Creek/Deer Run Golf Course mtg	Miles Winkler/DNR, Don Glaeser/Cal Cty Board, Tony Reali/Cal Cty Conservationist, Mayor Deiter, Lori Gosz	The following was discussed: <ul style="list-style-type: none"> <li>• Plan to address berm in 15 acre wetland to keep water from flooding.</li> <li>• DNR Chapter 30 permit would be required for filling in wetland.</li> <li>• Analysis was be required (DNR 116) for flood plain.</li> <li>• A conditional letter of map revision would be required from FEMA.</li> <li>• Possible grants</li> </ul>
December 10, 2013	Teleconference regarding the Golf Course and associated flooding issues.	Greg Hines-Executive Director of Glacierland RC& D, Miles Winkler-DNR, David Stertz-DNR, Crystal Schiefelbein-DNR, Michelle Haese-DNR, Tony Reali-Cal Cty	The following was discussed: <ul style="list-style-type: none"> <li>• Permit able activities that can take place is a navigable stream. Detention ponds are permitted if within 500 ft. of water way (DNR Chapter 30 permit) but not in wetland.</li> <li>• Dam structure needs to be authorized or removed. Miles to follow up on this.</li> <li>• Crystal to sit down with Miles to look at regulations on options.</li> </ul>

## Deer Run Golf Course

		Conservationist, Mayor Deiter, Lori Gosz, Nick VandeHey-McMahon, Steve Rosenbeck-McMahon	
January 14, 2014	Mtg to discuss Deer Run Golf Course	Mayor Deiter, Lori Gosz, Miles Winkler-DNR, Crystal VonHoldt-DNR, Steve Rosenbeck-McMahon, Nick VandeHey-McMahon, Michelle Haese-DNR via phone	<p>The following was discussed:</p> <ul style="list-style-type: none"> <li>• Building a detention pond on Levash property. Cost is approximately \$1.5 million. Results would help but not greatly.</li> <li>• Move 2 golf course holes.</li> <li>• Nick VandeHey will pull models to see what the best option is. A meeting will be scheduled with Glen Braun to discuss options.</li> </ul>
March 10, 2014	Mtg at Deer Run Golf Course	Glen Braun, Steve Rosenbeck-McMahon, Nick VandeHey-McMahon, Lori Gosz	<p>The following was discussed:</p> <ul style="list-style-type: none"> <li>• Creating a berm to protect hole #4 would result in elevated flood control upstream. Golf Course owner would have to obtain flood easement form property owners upstream.</li> <li>• The problem is the Marsh.</li> <li>• Options: <ul style="list-style-type: none"> <li>○ Lower the Marsh</li> <li>○ Move the course holes that are flooding</li> <li>○ Build a levy system to pump the 2 holes. This option would not rank well with DNR.</li> </ul> </li> </ul>
July 7, 2014	Mtg with Glen Braun and DNR	Miles Winker, Michelle Lehner-DNR, Glen Braun, Mayor Deiter, Lori Gosz	<p>The following options were discussed:</p> <ul style="list-style-type: none"> <li>• Dam structure at Grass Lake</li> <li>• Focus on Energy Grant to replace pump at Golf Course dam for an energy efficiency motor. Could see 50% reduction in electricity costs.</li> <li>• Diversion of water basin areas during flood events.</li> </ul>
June 2014	Rough wetland analysis of Deer Run	McMahon	Based on the quality of wetland, it would be very hard and also expensive to place any fill in the 15 acres if it would even be permit able. Benefit of a berm adjacent to the wetlands was undetermined.