



**CITY OF DELAFIELD
MEETING AGENDA
LAKE WELFARE COMMITTEE**

Chair: Mike Hausman

Members: Jerry Dunnick, Gayle Gaborski, Dave Greenway, Ald Phil Kasun, Susan McVey, Mark Millot, Paul Price, Sarah Reardon, Louis Scopp, Don Tills

Wednesday, January 13, 2021

6:00 PM

City Hall, Council Chambers
500 Genesee St.

Regular Meeting

- 1. Call to Order**
- 2. Pledge of Allegiance**
- 3. Roll Call**
- 4. Approve minutes of [December 9, 2020](#)**
- 5. Citizen's Comments**
- 6. Unfinished Business**
Discussion and possible action on the following items:
 - A. Status and review of the updates to the final version of SEWRPC Watershed Survey, Water Quality and Sediment Survey, Nagawicka Lake Shoreline Assessment, Final Report and Recommendations
 - B. Creation of a "Welcome to the Lake" program
 - C. Updates to the Lake Welfare Committee web page and the Lake Management web page on the City of Delafield website
 - D. Possible amendments to Chapter 16 of the Municipal Code relative to Riparian construction green space requirements
- 7. Requested Future Agenda Items**
- 8. Correspondence**
- 9. Adjournment**

All meetings of the Lake Welfare Committee are public meetings. The meeting of the Committee is a working session for the Committee itself, and, outside of the Citizens Comments section, discussion by those in attendance is limited to Committee members, staff and others that may be a party to the matter being discussed.

AMERICANS WITH DISABILITIES ACT NOTICE: Upon reasonable notice (at least 72 hours in advance) the City will furnish appropriate auxiliary aids and services when necessary to afford individuals with disabilities an equal opportunity to participate in and to enjoy the benefits of a service, program or activity provided by the City.

NOTICE OF POSSIBLE QUORUM: It is possible that members of and possibly a quorum of members of other governmental bodies of the municipality may be in attendance at the above-stated meeting to gather information: no action will be taken by any governmental body at the above-stated meeting other than the governmental body specifically referred to above in this notice.

Clerk: SB	Posted: 1-8-21	<input checked="" type="checkbox"/> City Hall Bulletin Board	<input checked="" type="checkbox"/> Website	<input checked="" type="checkbox"/> Notified Media
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CITY OF DELAFIELD LAKE WELFARE COMMITTEE
CITY WEBSITE - LWC SECTION
7/8/2020

MAIN PAGE CONTENT -- ALL LINKS WORK

MEETINGS: Agendas and Minutes

MEMBERS: Boards, Committees, and Commissions Directory
interest form

ADOPT A PORTION OF THE RIVER

Apply for Adoption

Waiver Form

Adoption Terms and Conditions

Adoption Clean-Up Report

clerksoffice@ci.delafield.wi.us

MANY OF THE LINKS BELOW ARE BROKEN...

1. Wisconsin DNR Nagawicka Lake Detail
2. STATE LAWS BANNING PHOSPHORUS FERTILIZER USE
3. UW Protecting your Waterfront Investment Guide
4. Resident Canada Goose Management Pamphlet

LEFT SIDE BAR

Ch. 30 Permit App

Goose Egg Oiling and Roundup Form

Healthy Lakes Grant Request Form

Lake Level Meter

Nagawicka Lake Rules [old]

USGS Bark River Flow Meter

PHOTOGRAPHS

2013 Photo winner

dredging

dredging

ski show

lake awareness

knee board

high altitude 1

high altitude 1

high altitude 1

fishing

float plane

sailing 1

sailing 1

sailing 1

sailing 1

slalom

barge/weed harvester

LAKE WELFARE ITEMS OF INTEREST

Preliminary Findings and Recommendations, Nagawicka Lake Aquatic Plant Survey (Dec 2016)

A Lake and Watershed Inventory for Nagawicka Lake, Waukesha County, Wisconsin, Memorandum Report # 130 (March 1999)

A Lake Management Plan for Nagawicka Lake, Waukesha County, Wisconsin, Community Assistance Planning Report 262 (March 2001)

Hey and Associates, Northeast and Northwest – Delafield Storm Water Management Plan (September 2004)

An Aquatic Plant Management Plan for Lake Nagawicka, Waukesha County, Wisconsin, Community Assistance Planning Report 161 (March 2006)

City of Delafield 2030 Comprehensive Plan, Natural Resource Section, Lake, Page 42 (April 2009)

Wisconsin:2011 (June 2012)

Why Should Purple Loosestrife Concern you? (2004 DNR PUB-WI-799)

Rain Gardens, A How To Manual For Home Owners (2003 DNR PUB-WI-776)

USGS Bark River inlet Water Quality, Hydrology, Phosphorus and Sediment Loading Study for Lake Nagawicka (2006)

Clean Water Association 2016

SEWRPC Aquatic Management Plan Update 2017 for Lake Nagawicka, Waukesha County

Aquatic Plant Management DNR Permit for Nagawicka Lake and St. John's Pond (May 2017)

Shoreline Alterations: Natural Buffers and Landscaping (May 2010/ revised Dec 2012)

Sensible Shoreland Lighting, Preserving the beauty of the night (2013)

Mute Swan Issues in Wisconsin (2010)

City of Delafield Boating Regulations Nagawicka Lake

City of Delafield Boating Regulations Upper Nashotah Lake

North American Lake Management Society

Wisconsin Lakes

Restoring the Rock River Basin, includes Bark River Watershed

Lake Nagawicka & Bark River Protection Plan 2016

Healthy Lakes Conference 2017

2018 Application for Aquatic Plant Management Permit for Nagawicka Lake

STATUS

broken

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LWC Web Links Worksheet

Link to: [Lake Welfare Committee Web Page](#)

Lake Welfare Committee Members:

1. Please review links to consider the:
 - a. placement of the links on the LWC page
 - b. removal (deletion) of a link
 - c. suggested link corrections to repair “broken” links
 - d. additional new links and their web page placement. (View the LWC web page linked above as needed for reference.)
2. For your note taking purposes, print a copy or create a digital copy in Google docs, Word, etc.
3. If you bring a device to the meeting to access and share your notes you can use the library’s network. It should pop up automatically . (The “5.0” network was suggested by the city clerk for better speed.). FYI: At the time of the meeting on Aug 12th this document will become “shared” and accessible to committee members so that your suggestions can just be copied from your notes and pasted here.

Notes:

1. Can we add a printed paper for the “Home Page” to add to the “Welcome to the Lake Packet”?
2. Can we ask to have a mention of this updated webpage in the next Communicator?

LAYOUT Discussion

Three Areas for links

1. Dark Blue Side Bar
2. Body Portin at Top (under meeting and member info)
3. "Resources" links in light blue chart at the bottom

The screenshot shows the Delafield Wisconsin website. At the top, there is a navigation bar with links for Government, Community Services, About Us, and How Do I... The main content area is titled "Laka Welfare Committee" and includes sections for Meetings, About the Committee, and Members. A sidebar on the left contains links for various permits and forms. At the bottom, there is a "Laka Welfare Items of Interest" section with a grid of links to various reports and documents.

Chapter 30 Permit Application

Goose Egg Oiling and Roundup Form

Healthy Lakes Grant Request Form

Lake Level Meter

Nepeske Lake Poles

USGS Bark River Flow Meter

Home | Government | Council, Board, Commissioner & Commissioners | Lake Welfare Committee

Laka Welfare Committee

Meetings

- 8:00 p.m.
- 2nd Wednesday of every month
- City Hall Council Chambers

Agendas and Minutes

About the Committee

The Lake Welfare Committee studies all problems and issues relating to Nepeske Lake and the Bark River within the city limits.

Members

The Lake Welfare Committee is made up of 1 Common Council member, 9 Citizens from all Districts, and 1 Neeshohk Rep. Terms are 2 years for most, odd years for odd districts and even years for even districts.

- Phil Kawan, District 8 Alderman
- Mike Macaron, Citizen Member D1
- Paul Piro, Citizen Member D1
- Jerry Durnick, Citizen Member D2
- Susan McVey, Citizen Member D2
- Dave Greenway, Citizen Member D3
- Mark Mink, Citizen Member D3
- Sarah Heaston - Citizen Member D4
- Gayle Gaborak, Citizen Member D5
- Dan Fels, Citizen Member D6
- Louie Scopp - Neeshohk Rep.

Visit our [Board, Committees, and Commissioners](#) directory for email and phone information.

If you would like to serve on a Board, Committee, or Commission - please fill out an [application](#), Common Council to do the application in case there is a vacancy and the Common Council would need to fill the position prior to the next election.

Adopt A Portion of the River

Adopt-A-River is a volunteer program which encourages local groups, Scout Troops, Business and civic organizations, churches, families, etc., to adopt a City of Delafield portion of the Bark River and clean up refuse a minimum of two times per year, once in the spring and again in the fall. The Public Works Department provides the garbage bags, gloves, and dumpsters for the materials.

[Apply for Adoption](#)

[Adoption Form](#)

[Adoption Terms and Conditions](#)

[Adoption Checklist Report](#)

Directors contact the City Hall at 262-668-6220 or via email at delaw@delawisconsin.gov

Photo Credit: Kent Ahlert

Laka Welfare Items of Interest

Nepeske Lake Aquatic Plant Survey (June 2016)	Aquatic Plant Management Plan (June 2016)
A Lake and Watershed Inventory for Nepeske Lake, Washburn County, Wisconsin (March 1999)	Shoreline Alterations, Riparian Buffers and Landscapes (May 2012)
A Lake Management Plan for Nepeske Lake, Washburn County, Wisconsin (March 2001)	Sanitary Shoreland Land Use, Preserve the Beauty of the River (2013)
In- and Outflow, Northeast and Northwest - District Storm Water Management Plan (September 2014)	Mud Trap Issues in Wisconsin (2014)
An Aquatic Plant Management Plan for Lake Neeshohk, Washburn County, Wisconsin (March 2008)	City of Delafield Riparian Management Plan (2014)
City of Delafield 2020 Comprehensive Plan (Natural Resource Section, Lake, Page 42 (April 2019))	City of Delafield Riparian Management Plan (Upper Neeshohk Lake) (2014)
An Aquatic Plant Management Plan Update for Nepeske Lake, Washburn County, Wisconsin (2017) (June 2017)	North American Lake Management Society (2014)

SCROLLING PICTURES on WEB PAGE

Subject	Suggested Action (so far) (retain, delete, add)	LWC member comments
2013 Photo Winner	delete	
Dredging	delete	
Dredging	delete	
Ski show	delete	
Lake Awareness Meeting	delete	
Knee boarder	retain	
Aerial photo	retain	
Aerial photo	retain	
Aerial photo - south finger Zasrow bay	retain	Pk - delete?
fishing	retain	Pk - delete?
Float plane	retain	
sailing	retain	Pk - delete?
sailing	retain	Pk - delete?
sailing	retain	Pk - delete?
sailing	retain	Pk - delete?
slalom	retain	Pk - delete?
barge /weed harvester	retain	Pk - delete?

ADD: Heron, Bald Eagle or other bird



By Credit: Liam O'Leary

ADD?: Nag Beach



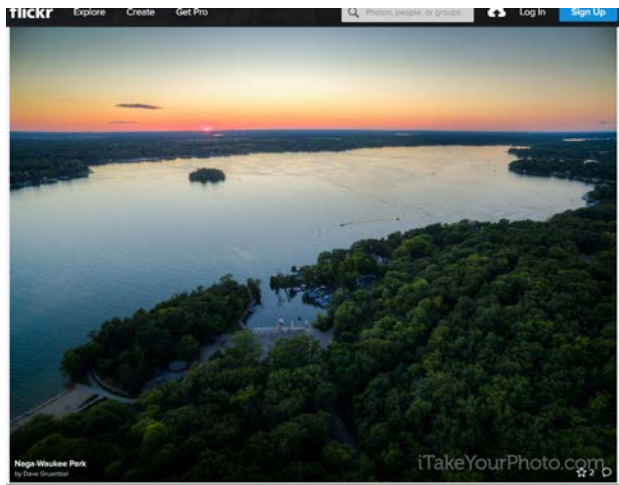
From <https://www.travelwisconsin.com/county-parks/naga-waukee-park-221145>

ADD: Full aerial photo



From <https://www.billminett.com/lakes-old/nagawicka/>

ADD?:



from: iTakeYourPhoto.com

Continued...

MAIN BODY of WEB PAGE

Page Section:	Web TEXT:	Suggested Action (retain, delete, add)	Link condition (works, broken)	Suggested link to update with:	Other comments link suggestions	LWC member comments
Meetings	Agendas and Minutes	retain	works	http://www.cityofdelafield.com/Archive.aspx?AMID=49&Type=&AMID=		
About the Committee	(No links included)					
Members	(No links included)					
Adopt A Portion of the River	Apply for Adoption Waiver Form Adoption Terms and Conditions Adoption Clean-Up Report	Retain all	Top three work	n/a		
	Please contact the City Hall at 262-646-6220 or via email at clerksoffice@ci.delafield.wi.us		broken	??		
No header (Temporary)	<ol style="list-style-type: none"> Wisconsin DNR Nagawicka Lake Detail STATE LAWS BANNING 	Retain all	All work	n/a		Delete this section as it is only temporary (retain & relocate the links: <ul style="list-style-type: none"> Wisconsin DNR Nagawicka Lake Detail Move link up, make equal to "Adopt A Portion of the River"

	<p><u>PHOSPHORUS FERTILIZER USE</u></p> <p>3. <u>UW Protecting your Waterfront Investment Guide</u></p> <p>4. <u>Resident Canada Goose Management Pamphlet</u></p>					<ul style="list-style-type: none"> • <u>STATE LAWS BANNING PHOSPHORUS FERTILIZER USE</u> Move link up, make equal to "Adopt A Portion of the River" • <u>UW Protecting your Waterfront Investment Guide</u> Relocate to the Lake Welfare Links to Items of Interest (links section below) • <u>Resident Canada Goose Management Pamphlet</u> Relocate to the Lake Welfare Links to Items of Interest (links section below)
<p>Lake Welfare Items of Interest</p> <p>Change? (see note on right)</p>	<p><u>Preliminary Findings and Recommendations, Nagawicka Lake Aquatic Plant Survey</u> (Dec 2016)</p>	retain	broken	<p>http://www.cityofdelafield.com/Archive/ViewFile/Item/3198</p>		Change the name of this section from Lake Welfare Items of Interest to Nagawicka Lake Resources ?
	<p><u>A Lake and Watershed Inventory for Nagawicka Lake, Waukesha County, Wisconsin, Memorandum Report # 130</u> (March 1999)</p>	delete	broken	<p>http://www.sewrpc.org/SEWRPCFiles/Publications/mr/mr-130_lake_inventory_nagawicka.pdf</p>		
	<p><u>A Lake Management Plan for Nagawicka Lake, Waukesha County, Wisconsin, Community Assistance Planning Report 262</u> (March 2001)</p>	delete	broken		<p>Retain and use 3rd edition available at: https://www.cityofdelafield.com/DocumentCenter/View/5694/SEWRPC--Chapter-1--2-pgs-1---125-CAPR-262-Edition-2_Preliminary-Draft---Nagawicka-Lake-Management-Plan-2018</p>	
	<p><u>Hey and Associates, Northeast and Northwest – Delafield Storm Water</u></p>	retain	broken		New link not found	

Management Plan (September 2004)						
An Aquatic Plant Management Plan for Lake Nagawicka, Waukesha County, Wisconsin, Community Assistance Planning Report 161 (March 2006)	retain	broken	https://dnr.wi.gov/lakes/grants/largerreports/SPL-023-02.pdf			
City of Delafield 2030 Comprehensive Plan, Natural Resource Section, Lake, Page 42 (April 2009)	retain	broken	http://www.cityofdelafield.com/DocumentCenter/View/5619/_City-of-Delafield-2030-Comprehensive-Plan-EntireDoc			
An Aquatic Plant Management Plan update for Nagawicka Lake, Waukesha County, Wisconsin:2011 (June 2012)	retain	broken	http://www.sewrpc.org/SEWRPCFiles/Environment/RecentPublications/AquaticPlantMgmtUpdateNagawickaLake_StaffMemo.PDF			
Why Should Purple Loosestrife Concern you? (2004 DNR PUB-WI-799)	retain	works				
Rain Gardens, A How To Manual For Home Owners (2003 DNR PUB-WI-776)	retain	broken	https://dnr.wi.gov/topic/Stormwater/documents/RainGardenManualPrint.pdf			
USGS Bark River inlet Water Quality, Hydrology, Phosphorus and Sediment Loading	retain	works				

Study for Lake Nagawicka (2006)					
Clean Water Association 2016	delete			Update with National Association of Clean Water Agencies https://www.nacwa.org/home	
SEWRPC Aquatic Management Plan Update 2017 for Lake Nagawicka, Waukesha County	delete	broken		New plan is due very "soon"	
Aquatic Plant Management DNR Permit for Nagawicka Lake and St. John's Pond (May 2017)	retain	broken		New link not found	
Shoreline Alterations: Natural Buffers and Landscaping (May 2010/revised Dec 2012)	retain	works			
Sensible Shoreland Lighting, Preserving the beauty of the night (2013)	retain	works			
Mute Swan Issues in Wisconsin (2010)	retain	works			
City of Delafield Boating Regulations Nagawicka Lake	delete	broken		https://library.municode.com/wi/delafield/codes/code_of_ordinances?nodeId=COOR_CH36PAR E_S36-3DEWASAPAU N	New title in City codes: Sec. 36-3. Delafield Water Safety Patrol Unit.
City of Delafield Boating Regulations Upper	delete	broken		https://library.municode.com/wi/delafield/codes/	

Nashotah Lake				code_of_ordinances?no deId=COOR_CH36PAR E_S36-7REWATRUPN ALA	
North American Lake Management Society	retain	works			
Wisconsin Lakes	retain	works			
Restoring the Rock River Basin, includes Bark River Watershed	retain	works			
Lake Nagawicka & Bark River Protection Plan 2016	retain	broken		New link not found	
Healthy Lakes Conference 2017	delete	broken			
2018 Application for Aquatic Plant Management Permit for Nagawicka Lake	retain	broken		New link not found	Update/rename link with WI DNR page: Aquatic Plant Management (APM) (including permitting application) https://dnr.wi.gov/lakes/plants/forms/

LEFT SIDE BAR of WEB PAGE

Web TEXT:	Suggested Action (retain, delete, add)	Link condition (works, broken)	Update with this working link	Additional comments/suggestions	LWCmember comments (leave comments and your initials)
Chapter 30 Permit	Retain all	All work		Update/change	

Application				the link's text	
Goose Egg Round Up and Oiling Form	retain	works			
Healthy Lakes Grant Claim Form	retain	works			
Lake Level Meter	retain	works			
Nagawicka Lake Rules	delete	works			Rules may be outdated?
USGS Bark River Flow Meter	retain	works			

Possible ADDITIONS of LINKS to the WEB PAGE

Site (Web TEXT to be Linked):	Update with this working link	Placement on the page	LWCmember comments (leave comments and your initials)
Water Trails: A River Trip on the Bark River	https://www.wisconsinrivertrips.com/segments/bark-river-deltafield	TOP in new section	

<p>Stormwater Infrastructure Mapping for the Lake Nagawicka Watershed in Waukesha and Washington Counties (2018)</p>	<p>https://www.uwsp.edu/cnr-ap/UWEXLakes/Documents/programs/convention/2018/FR-Session9/AlanBarrows_StormwaterInfrastructureMappingfortheLakeNagawickaWatershed.pdf</p>	<p>Bottom</p>	
<p>Watershed of Nagawicka Lake</p>	<p>https://www.researchgate.net/figure/Watershed-of-Nagawicka-Lake-at-Delafield-Wis-Land-use-land-cover-from-the-Southeastern_fig1_263046232</p>	<p>Bottom</p>	
<p>Conservancies on Lake Nagawicka - Frog Alley, Kette Bog & Spangler Marsh (held in trust by the Waukesha County Land Conservancy non profit)</p>	<p>https://www.waukeshalandconservancy.org/visit-a-preserve</p>	<p>TOP Create a new header “About Our Beautiful Lake and River, and Creeks”</p>	<p>Spangler Marsh is in process of receivership and is expected to be owned by the WCLC by the end of the year.</p>
<p>Active Birds of Nagawicka Lake</p>	<p>https://sites.google.com/view/naglake-birds/home</p>	<p>TOP - in new section</p>	
<p>Around the River Bend. A Flood of History (8 minute audio story from All Things Considered, NPR)</p>	<p>https://www.npr.org/2012/10/28/163744576/around-the-river-bend-a-flood-of-history</p>	<p>TOP in new section</p>	

<p>The Bark River Chronicles: Stories from a Wisconsin Watershed Paperback – September 25, 2012 (multiple copies are available at the Delafield Library)</p>	<p>https://www.wisconsinacademy.org/magazine/bark-river-chronicles-stories-wisconsin-watershed-milton-j-bates</p>	<p>TOP in new section</p>	
<p>LWC Members - ADD any additional suggestions below this line.</p>			

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Building a Better World
for All of Us®

CITY OF DELAFIELD LAKE WELFARE COMMITTEE TEXT AMENDMENTS

TO: City of Delafield Lake Welfare Committee

FROM: Amy Barrows, Planner

REPORT DATE: November 25, 2020
MEETING DATE: December 09, 2020

RE: **Boathouse Zoning Code Text Amendments**

Earlier this month, I met with Dave Greenway of the Lake Welfare Committee to discuss the possibility of amending the boathouse provisions, which are enclosed herein. Based on your feedback, I will present these text amendments to the Plan Commission for consideration to schedule a public hearing for formal adoption into the Zoning Code.

- Existing language to remain in black ink
- Existing language to be removed shown with strikethrough in red ink
- New proposed language in blue ink

Section 52.25 Boathouses

- (a) *Use permitted.* Boathouses as defined in section 52-11 and in Wis. Stats. § 30.01(1d), are permitted in any district abutting a public or private body of water in which a single-family dwelling is permitted by right, subject to the terms and conditions set forth herein and Wis. Stats. § 30.121. The interior of such boathouse must be designed and used exclusively for the storage of a boat and may also be used for the storage of marine and accessory items used by the occupants of the lot. Such boathouse shall be placed on a permanent foundation extending below the frost line or a concrete slab and shall contain at least 200 square feet in area to be considered a boathouse. Where a property line abuts the ordinary high water mark of a navigable waterway and a boathouse is desired, but may be within the 100-year floodplain, such structure may be allowed subject to the five-foot shore setback provision.
- (b) *Lake protection.* All new, or rebuilt boathouses affecting 50 percent of structural area require that all stormwater runoff from the boathouse and impervious surfaces within ten feet of the boathouse be directed to a ~~water catchment device in accordance with subsection (b)1 or (b)2 below.~~ ~~rain garden or other water quality device or system, that provides the same level of environmental benefit as a rain garden, approved by the city engineer.~~ ~~Installation of rain gardens shall be in accordance with the following City of Delafield Lake Nagawicka Planting List (hereafter referred to as "rain garden plant list") as well as adhere to the most current Wisconsin Department of Natural Resources recommended planting guidelines and design standards.~~ The ~~rain garden~~ catchment device and any required plantings must be maintained as long as the boathouse exists.

Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 501 Maple Avenue, Delafield, WI 53018-9351
SEH is 100% employee-owned | sehinc.com | 262.646.6855 | 888.908.8166 fax

1. *Rain Garden* in compliance with DNR publication “Rain Gardens: A how to manual for homeowners” (©2003) found on the City of Delafield website. Installation of plantings shall be in accordance with (c) Rain Garden Plant List, or similar species, as well as adhere to the most current Wisconsin Department of Natural Resources recommended planting guidelines.
 2. *Water Quality Device or System*, which shall provide the same level of environmental benefit as a rain garden and be approved by the city engineer.
- (c) *Plant selection*. Rain gardens shall utilize no less than 42 5 native species selected from the rain garden plant list. ~~No less than four of the selected species shall be selected from the grass/sedge portion of the list and shall comprise no less than 40~~ Grasses/sedges shall make up at least 40 percent of the total plant or seed composition. The homeowner or contractor shall verify with the nursery/supplier what species work best with the soil and sunlight conditions.

RAIN GARDEN PLANT LIST

Scientific Name	Common Name
<i>Grasses/Sedges:</i>	
Andropogon gerardii	Big Bluestem
Bouteloua curtipindula	Side-Oats Grama
Bromus ciliatus	Fringed Brome
Calamagrostis canadensis	Blue Joint Grass
Carex bebbii	Bebb's Sedge
Carex bicknellii	Copper-Shouldered Oval Sedge
Carex comosa	Bristly Sedge
Carex crinita	Fringed Sedge
Carex hystericiana	Porcupine Sedge
Carex stipata	Common Fox Sedge
Carex vulpinoidea	Brown Fox Sedge
Elymus canadensis	Canada Wild Rye
Elymus virginicus	Virginia Wild Rye
Glyceria canadensis	Rattlesnake Grass
Glyceria grandis	Reed Manna Grass
Juncus dudleyi	Dudley's Rush
Juncus tenuis	Path Rush
Juncus torreyi	Torrey's Rush
Panicum virgatum	Switch Grass
Schizachyrium scoparium	Little Bluestem
Scirpus cyperinus	Wool Grass
Sorghastrum nutans	Indian Grass
Spartina pectinata	Prairie Cord Grass
<i>Forbs (Flowering Plants):</i>	
Allium cernuum	Nodding Onion
Asclepias incarnata	Marsh Milkweed
Aster azureus	Sky-Blue Aster
Aster ericoides	Heath Aster
Aster novae-angliae	New England Aster
Aster puniceus	Red-Stemmed Aster
Cassia hebecarpa	Wild Senna
Coreopsis palmata	Prairie Coreopsis
Desmodium canadense	Canada Tick Trefoil

Echinacea pallida	Pale Purple Coneflower
Eryngium yuccifolium	Rattlesnake Master
Eupatorium maculatum	Spotted Joe Pye Weed
Eupatorium perfoliatum	Boneset
Helenium autumnale	Sneezeweed
Helianthus grosseserratus	Saw-Tooth Sunflower
Heliopsis helianthoides	Early Sunflower
Hypericum pyramidatum	Great St. John's Wort
Liatris pycnostachya	Prairie Blazing Star
Liatris spicata	Marsh Blazing Star
Lobelia cardinalis	Cardinal Flower
Lobelia siphilitica	Great Blue Lobelia
Monarda fistulosa	Wild Bergamot
Napaea dioica	Glade Mallow
Physostegia virginiana	Obedient Plant
Pycnanthemum virginianum	Mountain Mint
Ratibida pinnata	Yellow Coneflower
Rudbeckia hirta	Black-Eyed Susan
Rudbeckia laciniata	Wild Golden Glow
Rudbeckia subtomentosa	Sweet Black-Eyed Susan
Sagittaria latifolia	Arrowhead
Silphium laciniatum	Compass Plant
Silphium perfoliatum	Cupplant
Solidago graminifolia	Grass-Leaved Goldenrod
Solidago ohioensis	Ohio Goldenrod
Solidago riddellii	Riddell's Goldenrod
Solidago rigida	Stiff Goldenrod
Verbena hastata	Blue Vervain
Vernonia fasciculata	Ironweed
Veronicastrum virginicum	Culver's Root
Zizia aurea	Golden Alexanders
<i>Shrubs:</i>	
Cornus stolonifera	Red Osier Dogwood
Physocarpus opulifolius	Ninebark
Viburnum opulus	American High-Bush Cranberry
Viburnum rafinesquianum	Downy Arrowwood

- (d) *Landscape screening.* Shrubs species intended to be planted in association with rain gardens must not be planted within the rainwater collection area. Care must be taken so that these shrubs do not out compete or shade the grass and forb species.
- (e) *Habitation prohibited.* A boathouse may not be used for human occupancy or habitation. This prohibition expressly forbids the installation of bathroom facilities and other amenities typically found in a primary residence. State law (ch. NR 116, Wis. Admin. Code) prohibits plumbing within the floodplain.
- (f) *Height limitations.* No boathouse may contain more than one story and shall not exceed 12 feet in total height if a flat roof, excluding railings, and 18 feet in total height if a mansard, gable, gambrel, hip or pitch roof.

- (g) *Building and lot width.* No boathouse may be constructed on any lakeshore lot having less than 40 feet of lot width computed at the ordinary high water mark. The maximum boathouse width for lots ranging from 40 feet to 66 feet shall not exceed 30 percent of the lot width. The maximum boathouse width on lots with a width ranging from 66 feet to 150 feet shall not exceed 20 feet. The maximum boathouse width on a lot with a lot width greater than 150 feet shall not exceed 24 feet.
- (h) *Accessory to a single-family dwelling.* No boathouse is permitted unless a single-family dwelling is already present on the lot. Only one boathouse per lot is allowed.
- (i) *Building location.* A boathouse shall not be closer than five feet to the ordinary high water mark. On lots with a width less than 150 feet the back wall of the boathouse shall not be more than 30 feet from the front wall. On lots with a width greater than 150 feet the back wall of the boathouse shall not be more than 34 feet from the front wall. A boathouse shall not be located closer than six feet from a side lot line.
- (j) *Flat roof use.* Surfaces of boathouses may be used as open recreational living areas, but shall not be permanently enclosed. Canopies, railings and access stairs shall be considered ordinary appurtenances. Deck construction, railings, and canopies may not exceed four feet in height in addition to the 12-foot height limitation for boathouses with flat roofs set forth in subsection (f) of this section. Any railings constructed on a flat roof and/or deck shall be at least 50 percent open. No flat roof boathouses, including the "ordinary appurtenances" permitted above, shall exceed 16 feet total height.
- (k) *Nonconforming boathouses.* The maintenance and repair of nonconforming boathouses that extend beyond the ordinary high water mark of any navigable water shall be required to comply with Wis. Stats. § 30.121.
- (l) *Required approvals.* All building permit applications for new boathouses, or for the repair, remodeling or for additions to boathouses, shall be filed with the building inspector, who shall submit the application to the lake welfare committee for review. Upon receipt of completed application, the city clerk shall provide written notice to those property owners within 300 feet of the subject property for comments and/or consideration prior to lake welfare committee consideration. The lake welfare committee shall make a recommendation to the plan commission. The plan commission shall consider the location, architectural design, color and material to be used and compatibility with the principal structure, rain water remediation, buildings on adjacent properties, the lakeshore setting, and the neighbors' comments and lake welfare committee recommendations. Specific consideration shall be given to the visual impact of the boathouse from the lake and to any obstruction by the boathouse to an adjacent property owner's view of the lake.
- (m) *Rain water remediation installation.* See subsection (b) of this section. Installation and establishment of approved method and/or plant materials shall be completed within six months of boathouse completion and prior to occupancy and final inspection of the boathouse.

(Code 1997, § 17.22; Rep. and Recr. #411; Rep. & Recr. [#719](#); Rep. and Recr. # [737](#))



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CITY OF DELAFIELD LAKE WELFARE COMMITTEE TEXT AMENDMENTS

TO: City of Delafield Lake Welfare Committee

FROM: Amy Barrows, Planner

REPORT DATE: October 26, 2020
MEETING DATE: November 11, 2020

RE: **Impervious Surface Zoning Code Text Amendments**

Earlier this month, I met with members of the Lake Welfare Committee to discuss the possibility of incorporating an impervious surface provision on properties that have frontage on a navigable waterway. Below is draft language based on our conversation. Based on your feedback, I will present these text amendments to the Plan Commission for consideration of scheduling a public hearing for formal adoption into the Zoning Code. The Lake Welfare Committee should decide if they want the impervious surface provisions to apply to lots that front any navigable waterway, or just Lake Nagawicka.

Proposed Impervious Surface Definition:

An area that releases as runoff all or a majority of the precipitation that falls on it. Impervious Surface includes, but is not limited to, rooftops, sidewalks, driveways, parking lots, decks, patios, sport courts, swimming pools, hot tubs, retaining walls, and hard surfaces that surround fire pit rings.

Impervious Surface Provisions:

- (1) Purpose and Intent: Impervious surface standards are intended to protect water quality, fish and wildlife habitat, and protect against pollution of navigable waters.
- (2) Applicability: Impervious surface standards shall apply to all residential properties that have frontage on a navigable waterway as defined by the Wisconsin Department of Natural Resources. If a developed lot currently exceeds the standards of this ordinance and the property is redeveloped, these standards shall apply. *(These provisions could include commercial properties, but required parking should be considered)*
- (3) Limitations: The following impervious surface standards apply to all lots that meet the applicability provisions of subsection (2):
 - (a) Impervious surface is limited to 50% of the square footage of the lot.
 - (b) No impervious surfaces are permitted within 35 ft. of the Ordinary High Water Mark of a navigable waterway, with the following exceptions:
 1. Boathouses, boat hoists, wharfs, and piers that comply with all other provisions of this Ordinance and WDNR regulations.

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2. A single walkway to the waterway with a width not to exceed five feet.

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CITY OF DELAFIELD LAKE WELFARE COMMITTEE TEXT AMENDMENTS

TO: City of Delafield Lake Welfare Committee

FROM: Amy Barrows, Planner

REPORT DATE: January 8, 2021
MEETING DATE: January 13, 2021

RE: **Revised Impervious Surface Zoning Code Text Amendments**

On December 9, 2020, the Lake Welfare Committee discussed draft language to address impervious surface on certain lake properties. The Committee requested that a few members discuss the issue further. The below provisions incorporate the discussion between committee members.

Create Impervious Surface Definition in Section 52.11:

An area that releases as runoff all or a majority of the precipitation that falls on it. Impervious Surface includes, but is not limited to, rooftops, sidewalks, driveways, parking lots, patios, sport courts, swimming pools, hot tubs, retaining walls, **decks that are not at least 50% open**, and hard surfaces that surround fire pit rings.

Create Section 52.28 to read as follows:

Impervious Surfaces:

- (1) Purpose and Intent: Impervious surface standards are intended to protect water quality, fish and wildlife habitat, and protect against pollution of navigable waters.
- (2) Applicability: Impervious surface standards **shall apply to all residential properties located in the RL-1, RL-1a, and RL-2 Districts that have frontage on a navigable waterway** as defined by the Wisconsin Department of Natural Resources. If a developed lot currently exceeds the standards of this ordinance and the property is redeveloped, these standards shall apply. *(These provisions could include commercial properties, but required parking should be considered)*
- (3) Limitations: The following impervious surface standards apply to all lots that meet the applicability provisions of subsection (2):
 - (a) Impervious surface is limited to 50% of the square footage of the lot if the lot exceeds 25,000 sq. ft. and has 100 ft. of shore frontage.
 - (b) No impervious surfaces are permitted within 35 ft. of the Ordinary High Water Mark of a navigable waterway, with the following exceptions:
 1. Boathouses that comply with all other provisions of this Ordinance and WDNR regulations.

2. A single walkway to the waterway with a width not to exceed five feet.

Create Section 52.111(g)(16) to read as follows:

(16) *Impervious surface*. See Section 52.28.

Create Section 52.111(h)(16) to read as follows:

(16) *Impervious surface*. See Section 52.28.

Create Section 52.111(i)(17) to read as follows:

(17) *Impervious surface*. See Section 52.28.

The above three created sections are part of the individual lake districts (RL-1, RL-1a, and RL-2) and are cross-references to the impervious surface section created above.