It is expected that a Quorum of the Personnel Committee, Board of Public Works, Plan Commission and Administration Committee will be attending this meeting: (although it is not expected that any official action of any of those bodies will be taken)

CITY OF MENASHA SUSTAINABILITY BOARD Common Council Chambers 100 Main Street, Menasha Room 132 March 24, 2022 4:00 PM

AGENDA

A. CALL TO ORDER

- B. ROLL CALL/EXCUSED ABSENCES
- C. PUBLIC COMMENTS ON ANY MATTER OF CONCERN TO THE SUSTAINABILITY BOARD (five (5) minute time limit for each person)
- D. MINUTES TO APPROVEa) Minutes of the February 24, 2022 Sustainability Board Meeting

E. ACTION ITEMS

- F. DISCUSSION
 - 1. Sustainability Plan, Benchmarking, and Comparison with other communities a. Energy Innovation Grant and Comprehensive Energy Planning
 - 2. Transportation a. Bike Friendly Community Designation
 - Land Use

 Data request for canopy cover
 - 4. Natural Resources
 - a. 2022 Arbor Day Celebration
 - b. Natural Landscaping & Maintenance
 - c. No Mow May
 - 5. Energy
 - Water

 a. Stormwater educational signage
 - 7. Wastea. 2022 Electronics Recycling Event May 7 and Sept 21, 2022
 - 8. Health
 - a. Farm Fresh Market
- G. Future Meeting Dates
- H. ADJOURNMENT

"Menasha is committed to its diverse population. Our Non-English speaking population and those with disabilities are invited to contact the Menasha City Clerk at 967-3603 24-hours in advance of the meeting for the City to arrange special accommodations."

CITY OF MENASHA SUSTAINABILITY BOARD February 24, 2022 Minutes

- A. CALL TO ORDER Meeting Called to order by Linda Stoll at 4:02PM
- B. ROLL CALL/EXCUSED ABSENCES Attending: Kyle Coenen, Roger Kanitz, Kelsey Perry, Linda Stoll, Kathy Thunes Also Attending: Mayor Donald Merkes
- C. PUBLIC COMMENTS ON ANY MATTER OF CONCERN TO THE SUSTAINABILITY BOARD None
- D. MINUTES TO APPROVE

Motion by Kathy Thunes second by Kyle Coenen to approve the minutes of 1-27-2022 noting that UW-Fox Cities should be UWO-Fox Cities with the reorganization of the UW system two year campuses. Motion Caries

- E. ACTION ITEMS None
- F. DISCUSSION
 - 1. Sustainability Plan, Benchmarking and Comparison with other communities
 - Energy Innovation Grant and Comprehensive Energy Plan
 Discussion regarding the importance of benchmarking and value of the Comprehensive Energy
 Plan to the City's efforts to be more sustainable. The grant awards announcement is expected
 in March 2022, if successful the implementation period to write the plan is expected to be
 Spring of 2022 2023.
 - b. GTLC

Discussion regarding GTLC chart and benchmarks being useful for comparison purposes with other communities.

2. Transportation

a. Bike Friendly Communities Designation

Discussion regarding recommendations from League of American Bicyclists to increase Menasha to silver status:

- *"increase the amount of high quality bike parking throughout the community"* Discussion regarding potential for student participation to survey bike destinations,
 businesses, and recreational areas for bike parking. Don will check with schools and
 Boys and Girls Club to do survey. Kelsey will check with FVTC to see if they still fabricate
 bike racks as part of their classwork. Linda will review parking ordinance regarding
 including bike parking offsets.
- Questions on how we better share information with our regional bike advisory committee (Fox Cities Greenways).
- *"improve bicycle safety education for students of all ages"* Discussion regarding SRTS program that is beginning to be developed with MJSD. Invite Ashley Tracy from ECWRPC to next Sustainability Board meeting to see if there are ways that the Board can assist.
- Invite Laura Jungworth, Public Works Director, to a future Sustainability Board meeting to discuss implementation of the Complete Streets Policy and develop ways that the Board can assist.

 Invite Michelle Bachaus, Wisconsin Bike Federation, to a future Sustainability Board meeting to discuss how the board can partner with the Bike Federation on biking events.

3. Land Use

Request for information

- regarding distribution of property values (low, medium, high, and percentage of each)
- property value per acre
- property value per sq foot
- homeowner / renter
- % canopy cover
- 4. Natural Resources
 - a. 2022 Arbor Day Celebration

The City's 39th annual Arbor Day celebration is planned for April 29th 2022 in the area north and west of Menasha High School. This year's theme will be career opportunities in Urban Forestry, introducing students with hands on activities in arboriculture.

b. Natural Landscaping and Maintenance

Discussion regarding strategies to promote natural landscaping in both public and private spaces throughout the City including:

- Wild One's Plant Sale
- Educational Programming for the public and City staff
- Utilizing existing Heckrodt plantings to provide examples
- Library newsletter and social media

Discussion of maintenance of ECWRPC rain garden which was a joint project with the sustainability board and ECWRPC employees. Employees at ECWRPC that were involved with the project are no longer with the organization.

- 5. Energy
 - a. Streetlight upgrades to LED

Focus on Energy has approved the application to replace 156 street lights and 41 trail lights to LED in 2022. There is an option to replace an additional 205 streetlights in 2023. The streetlights are located east of Oneida Street, the trail lights are on the trestle and the trail segment behind the Public Works Facility.

- b. Third Party Financing Solar No report
- 6. Water
 - Stormwater Educational Signage
 Board recommended incorporating comments provided including actions that the public can take. In addition, recommended a city or DNR contact on the signs for more information. Verify if stormwater is one or two words.
- 7. Waste
 - a. 2022 Electronics Recycling Event May 7 and September 21, 2022 Review distribution email list. Need volunteers.
- 8. Health

No report

G. Future Meeting Dates

Revise meeting dates to include November 17, 2022 for the November date. Keep December 22 as December date.

H. ADJOURNMENT

Motion by Kyle Coenen second by Roger Kanitz to adjourn at 6:02PM Motion Carries

City of Menasha

Street Tree Benefits

Menasha street trees provide thousands of dollars of environmental, economic and aesthetic benefits to the community. Over their lifetime, street tree benefits exceed the costs of planting and care, representing a 300 percent return on investment. Tree benefits increase over time highlighting the importance of not only planting trees, but of providing ongoing maintenance and protection. These benefits are a reminder of the worthwhile investment in our community forestry program.

Trees:

- Reduce stormwater runoff
- Lower summer air temperatures
- Reduce air pollution
- Reduce heating and cooling costs
- Reduce atmospheric carbon dioxide (CO2)
- Enhance property values
- Provide wildlife habitat
- Improve health and wellbeing
- Improve learning and concentration
- Provide aesthetic benefits

Annually **Menasha** public street trees provide¹...



Trees Reduce Stormwater Runoff and Improve Water Quality

Trees reduce peak stormwater runoff and associated pollutants entering local water bodies. Trees reduce stormwater volumes by intercepting a portion of rainfall, which evaporates and never reaches the ground. Tree roots also increase rainfall infiltration and storage in the soil. And tree canopies reduce soil erosion by diminishing the impact of raindrops on barren surfaces.

Street trees in Menasha intercept 3,438,580 gallons of water annually for a savings of \$93,192.

Trees Reduce Atmospheric Carbon Dioxide

Trees reduce atmospheric carbon by capturing and storing CO2 as they grow. By reducing demand for heating and cooling, trees indirectly reduce CO2 by avoiding power plant emissions associated with energy production.

Street trees in Menasha capture 429 tons of atmospheric CO2 per year. Annual savings including indirect costs are \$10,733. Street trees also store approximately 5,287 tons of atmospheric CO2 for a total savings of \$79,304.



Trees improve air quality by trapping particulates, absorbing gaseous pollutants, and releasing oxygen. By cooling urban heat islands and shading parked cars, trees indirectly reduce ozone levels. The Environmental Protection Agency recognizes tree planting as an ozone reduction measure in state implementation plans.

Street trees in Menasha remove 276 lbs. of particulate matter, 549 lbs. of ozone, 25 lbs. of sulfur dioxide and 93 lbs. of nitrogen oxides annually. Total annual savings including indirect cost are \$13,392.



Wisconsin Department of Natural Resources dnr.wi.gov

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Trees reduce the demand for energy to heat and cool buildings by providing shade, lowering summertime temperatures, and reducing windspeeds. Secondary benefits are reduced water consumption and pollutants emissions by local power plants.

Street trees in Menasha save approximately 375 MWH of electricity and 51,543 Therms of natural gas annually for a savings of \$78,968.

Trees Improve Property Values and Beautify Our Communities

Trees are the single strongest positive influence on scenic quality in our community! They increase the attractiveness of retail business areas. Studies found shoppers are willing to pay up to 11% more for goods and services in a welllandscaped business district. Trees increase property values. People will pay 3-7% more for properties with many trees. Trees foster safer and more sociable neighborhoods. Views of trees ease mental fatigue and stress, help concentration, reduce sickness, and provide settings for recreation and relaxation. Trees also help reduce noise, provide a refuge for wildlife, and help connect residents with their natural environment.

Street trees in Menasha increase property values annually by \$87,705.

Diversity Improves Urban Forest Resilience

A diverse palette of trees helps guard against catastrophic loss to insects and diseases or environmental stresses. A general guideline for urban forest diversity is no more than 5% of any one species, 10% of any one genus.

Ash and maple trees are over-represented on Menasha's streets. This jeopardizes \$216,818 of the city's urban forest's benefits from pests such as emerald ash borer (EAB) and Asian longhorned beetle (ALB). Enlist the public to help increase Menasha's urban forest resilience by planting less common trees on their own property.

Tree graphic concept courtesy of City of New York Department of Parks & Recreation.

¹ Analysis was conducted using iTree Streets. iTree Streets is a street tree management and analysis tool for urban forest managers that uses tree inventory data to quantify the dollar value of annual environmental and aesthetic benefits. The iTree Suite is a free state-of-the-art, peer-reviewed software suite from the USDA Forest Service. www.itreetool.org.

City of Menasha

Urban Tree Canopy (UTC) Analysis

What is the Urban Forest and Urban Tree Canopy?

The **Urban Forest** consists of all public and private trees and shrubs in our community. This includes trees in yards, parks, open spaces, along streets and other land where trees are present. One way to understand the value of urban forests is by envisioning the layer of leaves, branches and tree stems when viewed from above. This layer is called **Urban Tree Canopy (UTC)**.

Why is Urban Tree Canopy important?

While we may not think of city trees as a typical "forest," these trees provide valuable services and benefits.

Trees in our community:

- Reduce storm water runoff
- Lower summer air temperatures
- Reduce air pollution
- Reduce heating and cooling costs
- Enhance property values
- Provide wildlife habitat
- Improve health and wellbeing
- Improve learning and concentration
- Provide aesthetic benefits

UTC benefits can be quantified. A single large tree can provide approximately \$76 in average annual net benefits, \$3,000 in benefits over a 40-year period. An increase in UTC brings an associated increase in benefits.



How much Urban Tree Canopy does Menasha have?

UTC analysis for Menasha shows¹:

- An existing tree canopy of 21% (968 acres)
- Trees could potentially cover an additional 35% (1,622 acres) of the city's land surface. These "Possible UTC" areas include grass, agriculture land, and impervious surfaces (e.g., parking lots, paved playgrounds & ROW).
- The remaining 44% (2,019 acres) of the city 's area is buildings, streets, water and other permanent features and is generally unsuited to UTC improvement.





Many factors determine where best to plant urban trees. UTC analysis shows where additional trees will have the greatest positive impact.

UTC analysis for the FOX VALLEY METROPOLITAN AREA shows²:

- An overall tree canopy of 20%.
- Possible UTC is 55%. The remaining land area of buildings, streets, water and other permanent features is 25%.

² Appleton, Greenville, Kaukauna, Kimberly, Little Chute, City of Menasha, Town of Menasha, Neenah

¹ Analysis was conducted using iTree Canopy. iTree Canopy offers a quick and easy way to produce a statistically valid estimate of land cover types (e.g., tree cover) using aerial images available in Google Maps. The iTree Suite is a free state-of-the-art, peer-reviewed software suite from the USDA Forest Service. www.itreetool.org

Why should Menasha set goals for UTC?

As urban development expands, it is increasingly important to balance growth with environmental wellbeing. To maximize UTC benefits, communities should set goals to protect, maintain and enhance their entire urban forest. Careful planning and goal setting are necessary to retain as much mature tree canopy as possible in areas with development pressure and to expand and sustain canopy in already urbanized areas. UTC goals can emphasize environmental quality (stormwater, air quality, carbon offsets), livability and economic vitality.

Though many communities have adopted land use strategies to mitigate sprawl, few have developed land cover strategies like UTC to mitigate urbanization effects.



Additional Resources

Urban Tree Canopy Assessment, Northern Research Station, USDA Forest Service, http://nrs.fs.fed.us/urban/utc/

Watershed Forestry Resource Guide, Urban Tree Canopy, http://www.forestsfor watersheds.org/urban-tree-canopy/

Urban Natural Resources Institute, http://www.unri.org/webcasts/archive/ march-2011a/

Society of Municipal Arborists, Urban Forestry BMPs, **http://www.urban-forestry. com/sma-urban-forestry-bmps**

How to Set UTC Goals

Effective UTC goal setting requires involvement and commitment by municipal leaders and staff, local business community, neighborhood groups and citizens. The process generally includes four steps:

- Assess Current UTC
 - Can use iTree Canopy Analysis or GIS to arrive at UTC baseline.
- Assess Possible UTC
 - Identify opportunities on both public and private land.
- Adopt Goals Based on Assessments
 - If possible, institutionalize goals in appropriate ordinances, policies, or community master plan.
- Develop Implementation Plan
 - Identify strategies to meet goals based on available resources, political climate and stakeholder needs. Produce timeline and identify parties responsible for each strategy.

Potential Strategies to Implement UTC Goals

- Plant New Trees
 - Identify and prioritize planting sites community-wide.
 - Assess species diversity needs.
 - Identify how trees will be maintained.
- Protect & Maintain Existing Trees
 - Adopt tree protection ordinance and conservation easements.
 - Produce a tree management plan.
 - Ensure proper pruning in utility corridors.
- Minimize & Restore UTC Lost to Age, Mortality & Land Conversion
 - Specify strategies within Comprehensive Land Use Plan (e.g. Smart Growth).
 - Adopt subdivision, zoning, and landscaping ordinances.
 - Identify impact from EAB and potential management strategies.
- Promote Public Education & Awareness
 - Promote tree benefits (e.g., community website, newsletter, water bill insert)
 - Promote proper tree planting (e.g., Arbor Day, workshops)
 - Develop or participate in campaigns (e.g., First Downs for Trees, Taking Root in Oshkosh)



Wisconsin Department of Natural Resources dnr.wi.gov



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City of

Menasha

Tree Canopy 21%

COMMUNITY TREE CANOPY



LAND COVER 21% Tree / Shrub 860 acres 29.1% Grass / Plantable 1191 acres 43.8% Impervious / Bare Soil 1790 acres 1.6% Wetland 65 acres 4.5% Water 183 acres **Municipal Borders**

STATE COVER 3.7%~ 28.8% 26.6% 37.3% 3.6%

Your local municipal forester may have more detailed information

1.5 Miles

0.75

Total municipal area:

TREE CANOPY

Many communities aspire to expand tree canopy because of the wide array of services trees offer. Knowing your canopy cover sets a baseline of knowledge to help promote your forest and set canopy goals.

Tree canopy maps also enable identification of underserved areas and areas of potential growth. They help prioritize where communities should focus tree planting activities in the future.

ECO-BENEFITS

Trees are part of a community's infrastructure, providing valuable benefits:

Stormwater reduction Prevent rain from burdening infrastructure

Natural gas savings Block wind, reducing winter heating costs

Property value Add real estate value

Energy savings Cool buildings, reducing air conditioning costs

Air Quality Remove pollutants and prevent power plant emissions **Carbon sequestration** Capture and store CO

4089 acres (6.39 sg. miles)

CANOPY DATA USES

- Prioritize tree planting locations
- Set tree canopy goals
 - Establish your area of interest
 - Identify current tree canopy
 - Assess goal criteria
 - Compare canopy cover
 - Identify where canopy can be expanded
 - Consider budget, staff and time
- Adopt goals based on assessments
 - Protect and maintain existing trees
 - Plant new trees
 - Promote public awareness

For more information on tree canopy, visit: dnr.wi.gov/topic/UrbanForests/ufia

Classification was derived from 2013 National Agriculture Imagery Program flights. The imagery produced 1-m resolution pixels and the classification was pursued for all municipal and urban areas in Wisconsin. The information shown on these maps has been obtained fro various sources, and is of varying age, reliability and resolution. These maps are not intended to be used for mavigation, nor are these maps an authoritative source of information about legal land ownership or public access. Deers of these maps are not intended to be used for mavigation, nor are these maps an authoritative source of information about legal land ownership or public access. Deers of these maps are not intended to be used for mavigation, nor are these maps an authoritative source of information about legal land ownership or public access. Deers of these maps are not intended to be used for maxigation, nor are these maps an authoritative source of information about legal land ownership or public access. Deers of these maps are not intended to be used for maxigation, nor are these maps an authoritative source of information about legal land ownership or public access. Deers of these maps are not intended to be used for maxigation, nor are these maps an authoritative source of information about legal land the information about legal long the information about legal long the information depicted on this map. For more information, nee DNR legal National to access and the depicted or the same personal depicted reinformation see DNR Legal Notices

City of

Neenah

Tree Canopy 16.5%

COMMUNITY TREE CANOPY



LAND COVER



STATE COVER 3.7%~ 28.8% 26.6% 37.3% 3.6%

1.5 Miles

0.75

Total municipal area:

TREE CANOPY

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6150 acres (9.61 sq. miles)

CANOPY DATA USES

- **Prioritize tree planting locations**
- Set tree canopy goals
 - Establish your area of interest .
 - Identify current tree canopy
 - Assess goal criteria
 - Compare canopy cover
 - Identify where canopy can be expanded
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City of

Appleton

COMMUNITY TREE CANOPY



LAND COVER 21% Tree / Shrub 3344 acres 31.1% Grass / Plantable 4953 acres 45.5% Impervious / Bare Soil 7251 acres 0.2% Wetland 38 acres 2.2% Water 348 acres **Municipal Borders**

STATE COVER 3.7%~ 28.8% 26.6% 37.3% 3.6%

4 Miles

TREE CANOPY

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Total municipal area:

ECO-BENEFITS

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Stormwater reduction Prevent rain from burdening infrastructure

Natural gas savings Block wind, reducing winter heating costs

Property value Add real estate value

Energy savings Cool buildings, reducing air conditioning costs

Air Quality Remove pollutants and prevent power plant emissions **Carbon sequestration** Capture and store CO₂

15935 acres (24.9 sg. miles)

CANOPY DATA USES

- **Prioritize tree planting locations**
- Set tree canopy goals
 - Establish your area of interest .
 - Identify current tree canopy
 - Assess goal criteria
 - Compare canopy cover
 - Identify where canopy can be expanded
 - Consider budget, staff and time
- Adopt goals based on assessments
 - Protect and maintain existing trees
 - Plant new trees
 - Promote public awareness

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Tree Canopy **71%**

Village of Little Chute

Tree Canopy 18.8%

COMMUNITY TREE CANOPY



1 Miles

LAND COVER 18.8% Tree / Shrub 703 acres 33.8% Grass / Plantable 1263 acres 42.2% Impervious / Bare Soil 1576 acres 0.1% Wetland 3 acres 5.1% Water 192 acres **Municipal Borders**

STATE COVER 3.7%~ 28.8% 26.6% 37.3% 3.6%

TREE CANOPY

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Tree canopy maps also enable identification of underserved areas and areas of potential growth. They help prioritize where communities should focus tree planting activities in the future.

Total municipal area:

ECO-BENEFITS

Trees are part of a community's infrastructure, providing valuable benefits:

Stormwater reduction Prevent rain from burdening infrastructure

Natural gas savings Block wind, reducing winter heating costs

Property value Add real estate value

Energy savings Cool buildings, reducing air conditioning costs

Air Quality Remove pollutants and prevent power plant emissions **Carbon sequestration** Capture and store CO

3738 acres (5.84 sq. miles)

CANOPY DATA USES

- **Prioritize tree planting locations**
- Set tree canopy goals
 - Establish your area of interest .
 - Identify current tree canopy
 - Assess goal criteria
 - Compare canopy cover
 - Identify where canopy can be expanded
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Citv of

Oshkosh

COMMUNITY TREE CANOPY



LAND COVER 9.2% Tree / Shrub 1585 acres 39.5% Grass / Plantable 6825 acres 45.5% Impervious / Bare Soil 7869 acres 2.2% Wetland 386 acres 3.5% Water 612 acres **Municipal Borders**

Tree Canopy

9.2%

STATE COVER 3.7%~ 28.8% 26.6% 37.3% 3.6%

Land classification derived from 2013 imagery

4 Miles

2 **TREE CANOPY**

Many communities aspire to expand tree canopy because of the wide array of services trees offer. Knowing your canopy cover sets a baseline of knowledge to help promote your forest and set canopy goals.

Tree canopy maps also enable identification of underserved areas and areas of potential growth. They help prioritize where communities should focus tree planting activities in the future.

Total municipal area:

ECO-BENEFITS

Trees are part of a community's infrastructure, providing valuable benefits:

Stormwater reduction Prevent rain from burdening infrastructure

Natural gas savings Block wind, reducing winter heating costs

Property value Add real estate value

Energy savings Cool buildings, reducing air conditioning costs

Air Quality Remove pollutants and prevent power plant emissions **Carbon sequestration** Capture and store CO

17278 acres (27 sq. miles)

CANOPY DATA USES

- **Prioritize tree planting locations**
- Set tree canopy goals
 - Establish your area of interest .
 - Identify current tree canopy
 - Assess goal criteria
 - Compare canopy cover
 - Identify where canopy can be expanded
 - Consider budget, staff and time
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For more information on tree canopy, visit: dnr.wi.gov/topic/UrbanForests/ufia





To:Sustainability BoardDate:21 March 2022RE:No Mow May

Background:

Several Fox Cities area communities have embraced the concept of No Mow May which encourages property owners to allow grass to grow uncut for the month of May, creating habitat and forage for early season pollinators.

Analysis:

Creating No Mow May in the City of Menasha would require an ordinance change to suspend the City's tall grass and weed ordinance for participants in the program.

Recommendation:

If the Sustainability Board wishes to recommend the program in Menasha staff would offer the following suggestions:

- The property owner register their property
- The property owner displays a sign explaining that they are participating in No Mow May
- The property is not eligible if notice was provided or action taken by the City within the previous year regarding tall grass or weeds on the property

Wetlands

The Menasha Conservancy was once part of a vast wetland eco-system on the north shore of Lake Winnebago. Wetlands are areas where water covers the soil for most of the year and are often found connected to ponds, lakes, and riverbeds. These wetlands soak up excess water during wet seasons and slowly release it during dry seasons to Lake Winnebago and the Fox River after trapping pollutants and filtering excess nutrients. Wetlands are the earth's filter system: they naturally clean the water passing through them.





Wetland Facts:

In Wisconsin, 75% of wildlife species use wetlands during some stage of their life cycle. Wetlands are critical to many song birds, waterfowl, mammels, fish, reptiles, and insects. Wildlife breed, feed, and raise their young within the protection of wetlands.

Sedges, grasses, rushes, and woody species are dominate in wetlands. Wetlands are home to many flowering plant

species The tangle of native plants and roots act like a

filter, removing sediments from the water When wetlands are destroyed, the many creatures that depend on them often disappear too.



Painted turtle
 Leopard frog

- Wood duck
- Great Blue Heron

White tailed deer

Red twig dogwood

• Muskrat

Blueflag iris

Be on the lookout for:

Dragonflies

Rain Gardens

A **rain garden** is a shallow depression planted with native plants. It temporarily holds and soaks in stormwater runoff from hard surfaces such as a roof, driveway, street or parking lot. This reduces flooding, keeps pollutants out of local water systems, and brings beauty and wildlife to landscapes.

Rain Garden Facts:

- Stormwater can carry pollutants such as vehicle fluids and lawn care chemicals
 Those pollutants travel directly through
- our storm drains and into our lakes and rivers Rain gardens slow down storm water
- rush and allow water to soak back into soil and aquifers
- Native Plants help absorb water and wildlife habitat
- Rain gardens DO NOT grow mosquitos because they absorb water in 48 hours or less



Raingardens help

us protect our waterways and help clean your drinking water



- Pick up pet waste
 Minimize use of fertilizers, pesticides, and herbicides
- Direct downspouts away from paved surfaces; consider planting a rain garden to collect runoff
- Clean grass clippings, leaves, and other debris out of the <u>curbline</u> and driveway
 Never pour anything down a stormdrain
- Want to start your own raingarden? Visit your local nature œnter. <u>Heckrodt</u> Wetland Reserve would be happy to help.





Stormwater Wet Pond

Stormwater is the **runoff from rain and melting snow**. In grassy or wooded areas plants help slow runoff and absorb water. <u>Roftops</u>, parking lots, streets, and other impervious surfaces block <u>stormwater</u> from soaking into the ground. This increases the amount of runoff, resulting in larger faster floods.

The Province Terrace <u>Stormwater</u> Wet Pond benefits/facts:

- Stormwater ponds collect water that runs off impervious surfaces
- Province Terrace pond collects <u>stormwater</u> from 163 surrounding acres.
- Stormwater ponds help mitigate flooding
- Pollutants such as road salt, sediments, lawn chemicals, fertilizers, and vehicle fluids are captured in <u>stormwater</u> ponds.
- Stormwater ponds help improve water quality in urban areas
- Province Terrace pond captures 18,000 pounds of sediment each year, which is equivalent to half a dump truck.



How can you help?

- Pick up pet waste
 Minimize use of fertilizers, pesticides, and herbicides
- Direct downspouts away from paved surfaces; consider planting a rain garden to collect runoff
- Clean grass clippings, leaves, and other debris out of the <u>curbline</u> and driveway
 Never pour anything down a <u>stormdrain</u>

Want to start your own raingarden? Visit your local nature center. <u>Heckrodt</u> Wetland Reserve would be happy to help.

Menasha

management is important to

reduce flooding and to

protect our waterways

from pollution.





Underground Storm Water

Underground storm water retention/detention systems capture and store runoff in large pipes or subsurface structures. Storm water enters the system through a riser pipe connected to a catch basin or curb inlet and flows into a series of chambers or compartments for storage. Once a storm event ends, it can be released through an outlet pipe.

Stormwater management is important to reduce flooding and to protect our waterways from pollution.

Advantages:

- Captures and stores runoff, helping meet the requirement at newly-developed sites
 - · Ideal for areas where ponds or wetlands would not work



Menasha





NEW LOCATION!!

MENASHA PUBLIC WORKS – 455 BALDWIN ST

- FREE ELECTRONICS -

Please remove all batteries and bulbs from your electronics prior to attending the event

| Computer Towers | Audio Equipment | Laptops | Cell Phones |
|-----------------------|-------------------|------------|-----------------------|
| Satellite Boxes | Power Supplies | Routers | Record Players |
| Circuit Boards | iPods/MP3 Players | Telephones | Gaming Systems |
| Cords/Wires | Christmas Lights | Tablets | And More |

We unfortunately do not accept smoke detectors, thermostats, or thermometers

- CHARGEABLE ELECTRONICS -

We accept cash, debit card, credit card, or check. Checks can be made out to 'Recycle That Stuff'

| Flat and Tube Computer Monitors | | |
|-----------------------------------|--|--|
| Flat and Tube TVs (29" and under) | | |
| Flat and Tube TVs (30" - 49") | | |
| Flat and Tube TVs (50" and over) | | |
| Wood Console or Projection TVs | | |

| \$20 each | Microwaves | \$15 each |
|-----------|--------------------------|-----------|
| \$20 each | Dehumidifiers | \$20 each |
| \$40 each | Dorm-Size Refrigerators* | \$20 each |
| \$60 each | Window Air Conditioners* | \$20 each |
| \$60 each | Large Printers/Copiers | \$15 each |

*We unfortunately do not accept full-size refrigerators, full-size freezers, or central air conditioning units

For your safety and ours, please:

- Solution Wipe down all materials prior to the event
- O Put all materials in a trunk, truck bed, or trailer
- Stay in your vehicle at the event, we will unload
- O No batteries or light bulbs

Event Questions? 920.955.3760





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Event is held rain or shine!