A G E N D A
CITY OF WAUPUN BOARD OF PUBLIC WORKS
Waupun City Hall – 201 E. Main Street, Waupun WI
Tuesday, March 12, 2019 at 4:30 PM

CALL TO ORDER

ROLL CALL

PERSONS WISHING TO ADDRESS THE BOARD OF PUBLIC WORKS--*State name, address, and subject of comments. (2 Minutes)*

No Public Participation after this point.

FUTURE MEETINGS AND GATHERING INVOLVING THE BOARD OF PUBLIC WORKS

CONSIDERATION - ACTION

1. Approve minutes of the February 19, 2019 Board of Public Works meeting.
2. Discuss / Approve MS4 Annual Report
3. Discuss / Approve / Recommend to Council the bid results for the Madison Street reconstruction project.
4. Discuss / Approve proposed Mill & Overlay projects for 2019.
5. Discuss City Garage fill site.

ADJOURNMENT

Upon reasonable notice, efforts will be made to accommodate disabled individuals through appropriate aids and services. For additional information, contact the City Clerk at 920-324-7915.

CITY OF WAUPUN CITY CLERK-D. TREASURER
Waupun City Hall – 201 E. Main Street, Waupun WI
P: 920-324-7915 * F: 920-324-3980
www.cityofwaupun.org

Waupun Board of Public Works
DRAFT Minutes of Regular Meeting **February 19, 2019**

The Waupun Board of Public Works met in regular session on Tuesday, February 19, 2019, in the Common Council Chambers at the Waupun City Hall located at 201 E. Main Street, Waupun.

Kaczmarski calls the meeting to order at 4:30pm.

Members present at roll call are Chairman/Alderman Kaczmarski, Alderman Mielke, Alderman Matoushek, Public Works Director Daane, City Clerk Hull, and Lieutenant Pfalzgraf. No members are absent.

Other City Staff in attendance: Mayor Nickel.

Audience in attendance is Randy Bille of the Waupun Truck N Show.

Motion Daane, second by Matoushek to approve the minutes from the January 22, 2019 meeting of the Board of Public Works. Motion carried 6-0.

Randy Bille of the Waupun Truck N Show makes request for the three to four hills located on the Tanner Park grounds (between the sidewalk and parking lot on E. Spring Street) be leveled and reseeded. The hills are a safety hazard as individuals trip/fall and also the removal of these hills would provide additional space for vendors for the City events (Truck N Show, Celebrate Waupun, and Volksfest). Daane provides that the Public Works employees, with the use of City equipment, would remove the hills for an estimated time of two days. Waupun Truck N Show will consider a donation of benches or picnic tables, in which they will discuss with Daane. The Board agrees unanimously to remove the hills located at Tanner Park.

Quotes received from Lappen Security ($18,862.01) and Gappa Security Solutions ($18,702.45) were received for the purpose of automatic door locks at nine parks. Daane questioned both companies if a credit would be possible if Public Works staff, time permitting, would provide labor for this service. Lappen stated possibly $2500 credit and Gappa provided they would discuss keeping costs down if City staff provided labor. Daane cannot commit staff assistance as it is dependent on current work load at that time.

Motion Matoushek, second Mielke to award the proposal to Gappa Security Solutions in the amount of $18,702.45 for the purpose of automatic door locks at nine parks. Motion carried 5-1 with Kaczmarski voting nay.

Motion Daane, second Matoushek to approve the 2019 Public Works Equipment Rates. Motion carried 6-0.

Motion Hull, second Mielke to approve the Public Works 5 year Street Plan. Motion carried 6-0.

Mill and Overlay bids received for Brandon Street (W. Main to Fern St.) and N. Madison St (Bridge to City Limits) is from Stark Pavement Corp ($143,554.50), Northeast Asphalt ($145,065.60), and Tri-County Paving Inc ($171,512.00).

Motion Matoushek, second Mielke to award the bid to Stark Pavement Corp , in the amount of $143,554.50, for Mill and Overlay to Brandon Street (W. Main to Fern St.) and N. Madison St (Bridge to City Limits). Motion carried 6-0.

Bids received for the 2020 Tandem Axle Truck Chassis are from Quality Truck ($99,965.00) and Truck Country ($102,610.00). Daane provides that Quality Truck did not meet bid specifications.

Motion Hull, second Matoushek to award the bid to Truck Country in the amount of $102,610.00 for a 2020 Tandem Axle Truck Chassis. Motion carried 6-0.

Bids received for the Tandem Patrol Truck Equipment are from Monroe Truck Equipment (Tandem Patrol Truck Equipment $95,993.00/ Options $2,281.00) and Casper Truck Equipment (Tandem Patrol Truck Equipment $97,837.00/ Options $3,454.00).

Motion Matoushek, second Mielke to award the bid to Monroe Truck Equipment for the Tandem Patrol Truck Equipment $95,993.00 and Options $2,281.00. Motion carried 6-0.

Motion Pfalzgraf, second Mielke to approve the Spring Clean Up dates of April 15 – May 3, 2019 weather permitting. Motion carried 6-0.

The ordinances to amend Ch. 7.15 entitled Streets, Alleys and Sidewalks – Proration of Construction Costs was brought back to the Board of Public Works. This ordinance was to provide residential sharing of construction cost to sidewalk replacement. Matoushek would consider charging for sidewalk that is in need of repair during a street construction.

Kaczmarski makes request if there is a motion for this ordinance. Hearing none, motion dies.

As the second ordinance provided, to amend Ch. 3.12 entitled Deferred Special Assessments, would only be in effect if the first ordinance would have been approved. No motion or consideration was heard.

Motion Hull, second Pfalzgraf to adjourn the meeting of the Board of Public Works at 5:18p. Motion carried 6-0.

Angela Hull, Clerk

Submittal of Annual Reports and other Compliance Documents for Municipal Separate Storm Sewer System (MS4) Permits

NOTE: Missing or incomplete fields are highlighted at the bottom of each page. You may save, close and return to your draft permit as often as necessary to complete your application. After 120 days your draft is **deleted.**

Reporting Information

Submittal Type:	Annual Report
Project Name:	2018 MS4 Annual Report
County:	Dodge
Municipality:	Waupun City
Facility Number:	31437
Reporting Year:	2018

Required Attachments and Supplemental Information

Please complete the contents of each tab to submit your MS4 permit compliance document. The information included in this checklist is necessary for a complete submittal. A complete and detailed submittal will help us review about your MS4 permit document. To help us make a decision in the shortest amount of time possible, the following information must be submitted:

Annual Report

- Review related web site and instructions for Municipal storm water permit eReporting [Exit Form]
- Complete all required fields on the annual report form and upload required attachments
- Attach the following items as appropriate using the attachments tab above
    a. Construction Site Pollution Control Annual Report Summary
    b. Illicit Discharge Detection and Elimination Annual Report Summary
    c. Leaf and Yard Waste Management
    d. Municipal Cooperation Attachment
    e. Municipal Facility Inspections
    f. Pollution Prevention Annual Report Summary
    g. Post-Construction Storm Water Management Annual Report Summary
    h. Public Education and Outreach Annual Report Summary
    i. Public Involvement and Participation Annual Report Summary
    j. Storm Water Consortium/Group Report
    k. Storm Sewer System Map Annual Report Attachment
    l. Storm Water Quality Management Annual Report Attachment
    m. TMDL Attachment
    n. Winter Road Maintenance
    o. Other Annual Report Attachment
- Sign and Submit form

Do not close your work until you SAVE.

Form 3400-224 (09/17)

Municipal Contact Information- Complete

Notice: Pursuant to s. NR 216.07(8), Wis. Adm. Code, an owner or operator of a Municipal Separate Storm Sewer System (MS4) is required to submit an annual report to the Department of Natural Resources (Department) by March 31 of each year to report on activities for the previous calendar year ("reporting year"). This form is being provided by the Department for the user's convenience for reporting on activities undertaken in each reporting year of the permit term. Personal information collected will be used for administrative purposes and may be provided to the extent required by Wisconsin's Open Records Law [ss. 19.31-19.39, Wis. Stats.].
Note: Compliance items must be submitted using the Attachments tab.

Municipality Information

Name of Municipality	Waupun City
Facility ID # or (FIN):	31437
Updated Information:	☐ Check to update mailing address information
Mailing Address:	201 Main Street
Mailing Address 2:	
City:	Waupun
State:	Wisconsin
Zip Code:	53963 xxxxx or xxxxx-xxxx

Primary Municipal Contact Person (Authorized Representative for MS4 Permit)

The "Authorized Representative" or "Authorized Municipal Contact" includes the municipal official that was charged with compliance and oversight of the permit conditions, and has signature authority for submitting permit documents to the Department (i.e., Mayor, Municipal Administrator, Director of Public Works, City Engineer).

☐ Select to ***create new*** primary contact

First Name:	Jeff
Last Name:	Daane

☐ Select to ***update*** current contact information

Title:	DPW
Mailing Address:	201 E Main St
Mailing Address 2:	
City:	Waupun
State:	WI
Zip Code:	53963 xxxxx or xxxxx-xxxx
Phone Number:	920-324-7918 Ext: xxx-xxx-xxxx
Email:	jeff@cityofwaupun.org

Additional Contacts Information (Optional)

☐ I&E Program
☐ IDDE Program

Individual with responsibility for: (Check all that apply)	☐ IDDE Response Procedure Manual ☐ Municipal-wide Water Quality Plan ☐ Ordinances ☐ Pollution Prevention Program ☐ Post-Construction Program ☐ Winter roadway maintenance

First Name:	
Last Name:	
Title:	
Mailing Address:	
Mailing Address 2:	
City:	
State:	
Zip Code:	xxxxx or xxxxx-xxxx
Phone Number:	Ext: xxx-xxx-xxxx
Email:	

1. Does the municipality rely on another entity to satisfy some of the permit requirements? If yes, enter entity name (government, consultant, group/organization).

◉ Yes ○ No

☑ Public Education and Outreach: Rock River Stormwater Group

☐ Public Involvement and Participation:

☐ Illicit Discharge Detection and Elimination:

☐ Construction Site Pollutant Control:

☐ Post-Construction Storm Water Management:

☐ Pollution Prevention

2. Has there been any changes to the municipality's participation in group efforts towards permit compliances (i.e., the municipality has added or dropped consortium membership)?

○ Yes ◉ No

Missing Information

Do not close your work until you **SAVE.**

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7.

Form 3400-224 (09/17)

Minimum Control Measures- Section 1 : Complete

1. Public Education and Outreach

a. Complete the following information on Public Education and Outreach Activities related to storm water. Select the Mechanism that best describes how the topic message was conveyed to your population. Use the **Add Activity** to add multiple Mechanisms. For Quantity, choose the range for the number of Mechanisms chosen (i.e., number of workshops, events).

Topic: Detection and elimination of illicit discharges

Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
Social media posts	20 - 49	100 +	◉ Yes ○ No
Website	1 - 9	100 +	○ Yes ◉ No
Informational booth at event	1 - 9	100 +	◉ Yes ○ No

Select all applicable audiences targeted for this topic.

☐ Agricultural ☐ Contractors ☑ General Public ☐ Public Employees ☑ Residential ☑ School Groups
☑ Business ☐ Developers ☐ Industries ☐ Restaurants ☐ Other:

Topic: Management of materials that may cause storm water pollution from automobiles, pet waste, household hazardous waste and household practices

Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
Website	1 - 9	100 +	○ Yes ◉ No
Social media posts	1 - 9	100 +	○ Yes ◉ No

Select all applicable audiences targeted for this topic.

☐ Agricultural ☐ Contractors ☑ General Public ☐ Public Employees ☑ Residential ☑ School Groups
☑ Business ☑ Developers ☑ Industries ☐ Restaurants ☐ Other:

Topic: Beneficial onsite reuse of leaves and grass clippings/proper use of lawn and garden fertilizers and pesticides

Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
Website	1 - 9	100 +	○ Yes ◉ No

Select all applicable audiences targeted for this topic.

☐ Agricultural ☐ Contractors ☑ General Public ☐ Public Employees ☑ Residential ☐ School Groups

☐ Business ☐ Developers ☐ Industries ☐ Restaurants ☐ Other:

Topic: Management of stream banks and shorelines by riparian landowners to minimize erosion and restore and enhance the ecological value of waterways			
Mechanism	**Quantity** (optional)	**Est. People Reached** (optional)	**Regional Effort?** (optional)
Did not focus on this topic this reporting year	Select...	Select...	○ Yes ○ No

Select all applicable audiences targeted for this topic.

☐ Agricultural ☐ Contractors ☐ General Public ☐ Public Employees ☐ Residential ☐ School Groups
☐ Business ☐ Developers ☐ Industries ☐ Restaurants ☐ Other:

Topic: Infiltration of residential storm water runoff from rooftop downspouts, driveways and sidewalks			
Mechanism	**Quantity** (optional)	**Est. People Reached** (optional)	**Regional Effort?** (optional)
Website	1 - 9	100 +	○ Yes ◉ No

Select all applicable audiences targeted for this topic.

☐ Agricultural ☐ Contractors ☑ General Public ☐ Public Employees ☑ Residential ☐ School Groups
☑ Business ☐ Developers ☐ Industries ☐ Restaurants ☐ Other:

Topic: Inform and where appropriate educate those responsible for the design, installation, and maintenance of construction site erosion control practices and storm water management facilities on how to design, install and maintain the practices			
Mechanism	**Quantity** (optional)	**Est. People Reached** (optional)	**Regional Effort?** (optional)
Direct one-on-one communication	1 - 9	1 - 9	○ Yes ◉ No

Select all applicable audiences targeted for this topic.

☐ Agricultural ☑ Contractors ☐ General Public ☐ Public Employees ☐ Residential ☐ School Groups
☑ Business ☑ Developers ☑ Industries ☐ Restaurants ☐ Other:

Topic: Identify businesses and activities that may pose a storm water contamination concern, and where appropriate, educate specific audiences on methods of storm water pollution prevention			
Mechanism	**Quantity** (optional)	**Est. People Reached** (optional)	**Regional Effort?** (optional)
Did not focus on this topic this reporting year	Select...	Select...	○ Yes ○ No

Select all applicable audiences targeted for this topic.

☐ Agricultural ☐ Contractors ☐ General Public ☐ Public Employees ☐ Residential ☐ School Groups
☐ Business ☐ Developers ☐ Industries ☐ Restaurants ☐ Other:

Topic: Promote environmentally sensitive land development designs by developers and designers, including green infrastructure and low impact development			
Mechanism	**Quantity** (optional)	**Est. People Reached** (optional)	**Regional Effort?** (optional)
Direct one-on-one communication	1 - 9	1 - 9	○ Yes ◉ No

Select all applicable audiences targeted for this topic.

☐ Agricultural ☑ Contractors ☐ General Public ☐ Public Employees ☐ Residential ☐ School Groups
☑ Business ☑ Developers ☑ Industries ☐ Restaurants ☐ Other:

Topic: Other (describe):			
Mechanism	**Quantity** (optional)	**Est. People Reached** (optional)	**Regional Effort?** (optional)
Select...	Select...	Select...	○ Yes ○ No

Select all applicable audiences targeted for this topic.

☐ Agricultural ☐ Contractors ☐ General Public ☐ Public Employees ☐ Residential ☐ School Groups
☐ Business ☐ Developers ☐ Industries ☐ Restaurants ☐ Other:

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b. Brief Public Education and Outreach program information for inclusion in the Annual Report. If your response exceeds the 200 character limit, attach supplemental information on the attachments page.

Missing Information

Do not close your work until you **SAVE.**

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7

Minimum Control Measures - Section 2 : Complete

2. Public Involvement and Participation

a. Describe how the municipality has kept the following local officials and municipal staff aware of the municipal storm water discharge permit programs and its requirements.

Elected Officials

This is the City of Waupun's twelfth annual report under the MS4 General Permit requirements. The report was presented as an agenda item at the Board of Public Works meeting held on March 12, 2019.

Municipal Officials

All municipal officials are sent the agenda for the Board of Public Works meetings and are welcome to attend and offer comments or concerns.

Appropriate Staff (such as operators, Department heads, and those that interact with public)

All Department Managers are notified of the Board of Public Works meeting and are welcome to attend and offer comments or concerns.

b. Complete the following information on Public Involvement Activities related to storm water. Select the mechanism that best describes how the topic message was conveyed to your population. Use the Add Activity to add multiple mechanisms. For Quantity, choose the range for number Mechanisms chosen (i.e., number of workshops, events).

Topic: Storm Water Management Plan and/or updates			
Mechanism	**Quantity** (optional)	**Est. People Reached** (optional)	**Regional Effort?** (optional)
Government Event (Public Hearing, Council Meeting, etc)	1 - 9	10 - 19	○ Yes ◉ No

Select all applicable participants targeted for this topic.

☐ Agricultural ☐ Contractors ☑ General Public ☑ Public Employees ☐ Residential ☐ School Groups
☐ Business ☐ Developers ☐ Industries ☐ Restaurants ☐ Other:

Topic: Storm water related ordinance and/or updates			
Mechanism	**Quantity** (optional)	**Est. People Reached** (optional)	**Regional Effort?** (optional)
Government Event (Public Hearing, Council Meeting, etc)	1 - 9	10 - 19	○ Yes ◉ No

Select all applicable participants targeted for this topic.

☐ Agricultural ☐ Contractors ☑ General Public ☑ Public Employees ☐ Residential ☐ School Groups
☐ Business ☐ Developers ☐ Industries ☐ Restaurants ☐ Other:

Topic: MS4 Annual Report			

Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
Citizen Committe Meetings	1 - 9	10 - 19	○ Yes ◉ No
Government Event (Public Hearing, Council Meeting, etc)	1 - 9	10 - 19	○ Yes ◉ No

Select all applicable participants targeted for this topic.

☐ Agricultural ☐ Contractors ☑ General Public ☑ Public Employees ☐ Residential ☐ School Groups
☐ Business ☐ Developers ☐ Industries ☐ Restaurants ☐ Other:

Topic: Volunteer Opportunities

Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
Clean-up events	1 - 9	20 - 49	◉ Yes ○ No
Storm drain stenciling	50 - 99	10 - 19	○ Yes ◉ No

Select all applicable participants targeted for this topic.

☐ Agricultural ☐ Contractors ☑ General Public ☑ Public Employees ☑ Residential ☑ School Groups
☑ Business ☐ Developers ☐ Industries ☐ Restaurants ☐ Other:

Topic: Other (describe) :

Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
Select...	Select...	Select...	○ Yes ○ No

Select all applicable participants targeted for this topic .

☐ Agricultural ☐ Contractors ☐ General Public ☐ Public Employees ☐ Residential ☐ School Groups
☐ Business ☐ Developers ☐ Industries ☐ Restaurants ☐ Other:

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c. Brief Public Involvement and Participation program information for inclusion in the Annual Report. If your response exceeds the 200 character limit, attach supplemental information on the attachments page.

The Waupun High School SDS class participated in the storm drain stenciling project. They stenc...

Missing Information

Do not close your work until you **SAVE.**

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7

Minimum Control Measures - Section 3 : Complete

3. Illicit Discharge Detection and Elimination

a. How many total outfalls does the municipality have? 88 ☐ Unsure

b. How many outfalls did the municipality evaluate as part of their routine ongoing field screening program? 21 ☐ Unsure

c. From the municipality's routine screening, how many were confirmed illicit discharges? 0 ☐ Unsure

d. How many illicit discharge complaints did the municipality receive? 0 ☐ Unsure

e. From the complaint received, how many were confirmed illicit discharges? 0 ☐ Unsure

f. How many of the identified Illicit discharges did the municipality eliminate in the reporting year? 0 ☐ Unsure

g. How many of the following enforcement mechanisms did the municipality use to enforce its illicit discharge ordinance? Check all that apply and enter the number of each used in the reporting year. ☐ Unsure

☐ Verbal Warning	
☑ Written Warning (including email)	29
☐ Notice of Violation	
☐ Civil Penalty/ Citation	
☐ No Enforcement Action Taken	

Additional Information:

h. Brief Illicit Discharge Detection and Elimination program information for inclusion in the Annual Report. If your response exceeds the 200 character limit, attach supplemental information on the attachments page.

Missing Information

Do not close your work until you **SAVE.**

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7

Minimum Control Measures - Section 4 : Complete

4. Construction Site Pollutant Control

a. How many total construction sites were active at any point in the reporting year? 26 ☐ Unsure

b. How many construction sites did the municipality issue permits for in the reporting year? 26 ☐ Unsure

c. Do the above numbers include sites <1 acre? ◉ Yes ○ No ○ Unsure

d. How many erosion control inspections did the municipality 5 ☐ Unsure

complete in the reporting year?

e. What types of enforcement actions does the municipality have available to compel compliance with the regulatory mechanism? Check all that apply and enter the number of each used in the reporting year. ☐ Unsure

☑ Verbal Warning	0
☑ Written Warning (including email)	0
☑ Notice of Violation	0
☐ Civil Penalty/ Citation	
☑ Stop Work Order	0
☑ Forfeiture of Deposit	0
☐ No Authority	
☐ Other - Describe below	

f. Brief Construction Site Pollutant Control program information for inclusion in the Annual Report . If your response exceeds the 200 character limit, attach supplemental information on the attachments page.

Construction Site Erosion Control Ordinance was updated in 2018. See attachment

Missing Information

Do not close your work until you **SAVE.**

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7

Minimum Control Measures - Section 5 : Complete

5. Post-Construction Storm Water Management

a. How many new construction sites with new structural storm water management practices* have received local approvals ? 5 ☐ Unsure

*Structural practices, techniques or devices employed to avoid or minimize soil, sediment or pollutants carried in runoff to waters of the state (such as ponds, swales, infiltration basins, permeable pavement, catch basin sumps, etc.)

b. How many privately owned storm water facility inspections were completed in the reporting year ? 2 ☐ Unsure

c. What types of enforcement actions does the municipality have available to compel compliance with the regulatory mechanism? Check all that apply and enter the number of each used in the reporting year. ☐ Unsure

☑ Verbal Warning	0
☑ Written Warning (including email)	

	0
☑ Notice of Violation	0
☐ Civil Penalty/ Citation	
☐ Forfeiture of Deposit	
☐ Complete Maintenance	
☐ Bill Responsible Party	
☐ No Authority	
☐ Other - Describe below	

d. Brief Post-Construction Storm Water Management program information for inclusion in the Annual Report . If your response exceeds the 200 character limit, attach supplemental information on the attachments page.

The City revised its Post-Construction Stormwater Management Ordinance in 2018. See attachment

Missing Information

Do not close your work until you **SAVE.**

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7

Form 3400-224 (09/17)

Minimum Control Measures - Section 6 : Complete

6. Pollution Prevention

Storm Water Management Facility Inspections (ponds, biofilters, etc.) ☐ Not Applicable

a. Enter the total number of municipally owned or operated structural storm water facilities ? 5 ☐ Unsure

b. How many new municipally owned storm water facilities were installed in the reporting year ? 0 ☐ Unsure

c. How many municipally owned storm water devices were inspected in the reporting year? 5 ☐ Unsure

d. What elements are looked at during inspections (200 character limit)?

Embankment & Emergency Spillway, Outlet Structure, Permanent Pool, Inlet Structure

e. How many of these facilities required maintenance? 2 ☐ Unsure

Public Works Yards & Other Municipally Owned Properties (SWPPP Plan Review) ☐ Not Applicable

f. How many inspections of municipal properties been conducted in the reporting year? 3 ☐ Unsure

g. Have amendments to the SWPPPs been made? ○ Yes ◉ No ○ Unsure

h. If yes, describe what changes have been made (200 character limit):

Collection Services - *Street Sweeping / Cleaning Program* ☐ Not Applicable

i. Did the municipality conduct street sweeping/cleaning during the reporting year?
◉ Yes ○ No ○ Unsure

j. If known, how many tons of material was removed? 300 ☐ Unsure

k. Does the municipality have a low hazard exemption for this material? ○ Yes ◉ No

l. If street cleaning is identified as a storm water best management practice in the pollutant loading analysis, was street cleaning completed at the assumed frequency?
◉ Yes
○ No - Explain _____
○ Not Applicable

Collection Services - *Catch Basin Sump Cleaning Program* ☐ Not Applicable

m. Did the municipality conduct catch basin sump cleaning during the reporting year?
○ Yes ◉ No ○ Unsure

n. How many catch basin sumps were cleaned in the reporting year? 0 ☐ Unsure

o. If known, how many tons of material was collected? 0 ☐ Unsure

p. Does the municipality have a low hazard exemption for this material? ○ Yes ◉ No

q. If catch basin sump cleaning is identified as a storm water best management practice in the pollutant loading analysis, was cleaning completed at the assumed frequency?
○ Yes
○ No - Explain _____
◉ Not Applicable

Collection Services - *Leaf Collection Program* ☐ Not Applicable

r. Does the municipality conduct curbside leaf collection? ◉ Yes ○ No ○ Unsure

s. Does the municipality notify homeowners about pickup? ◉ Yes ○ No ○ Unsure

t. Where are the residents directed to store the leaves for collection?
☑ Pile on terrace ☐ Pile in street ☐ Bags on terrace ☐ Unsure
☐ Other - Describe _____

u. What is the frequency of collection?

once per week for 3-4 weeks in spring and
once per week for 4-6 weeks in fall

v. Is collection followed by street sweeping/cleaning? ◉ Yes ○ No ○ Unsure

Winter Road Management ☐ Not Applicable

*Note: We are requesting information that goes beyond the reporting year, answer the best you can.

w. How many lane-miles of roadway is the municipality responsible for doing snow and ice control? 85 ☐ Unsure

x. Provide amount of de-icing products used by month last winter season?

Solids (tons) (ex. sand, or salt-sand)

Product	Oct	Nov	Dec	Jan	Feb	Mar
Salt	0	23	111	219	158	102

Liquids (gallons) (ex. brine)

	Oct	Nov	Dec	Jan	Feb	Mar
Brine	0	968	3453	6392	8205	144

y. Was salt applying machinery calibrated in the reporting year? ◉ Yes ○ No ○ Unsure

z. Have municipal personnel attended salt reduction strategy training in the reporting year? ○ Yes ◉ No ○ Unsure

If yes, describe what training was provided (200 character limit):

When: How many attended:

Internal (Staff) Education & Communication

aa. Has training or education on SWPPPs for municipal facilities been held for municipal or other personnel? ○ Yes ◉ No ○ Unsure

If yes, describe what training was provided (200 character limit):

When: How many attended:

ab. Brief Pollution Prevention program information for inclusion in the Annual Report. If your response 200 character limit, attach supplemental information on the attachments page.

Missing Information

Do not close your work until you **SAVE.**

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7

Form 3400-224 (09/17)

Minimum Control Measures - Section 7 : Complete

7. Storm Sewer System Map

a. Did the municipality update their storm sewer map this year? ◉ Yes ○ No ○ Unsure

If yes, check the areas the map items that got updated or changed:

- ☐ Storm water treatment facilities
- ☑ Storm pipes
- ☐ Vegetated swales
- ☐ Outfalls
- ☐ Other - Describe below

b. Brief Storm Sewer System Map information for inclusion in the Annual Report. If your response exceeds the 200 character limit, attach supplemental information on the attachments page.

Missing Information

Do not close your work until you SAVE.

Form 3400-224 (09/17)

Final Evaluation - Complete

Fiscal Analysis

Complete the fiscal analysis table provided below. For municipalities that do not break out funding into permit program elements, please enter the monetary amount to your best estimate of what funding may be going towards these programs.

Annual Expenditure Reporting Year	**Budget** Reporting Year	**Budget** Upcoming Year	**Source of Funds**
Element: Public Education and Outreach			
5000	5000	5000	Storm water utility
Element: Public Involvement and Participation			
0	0	0	Storm water utility
Element: Illicit Discharge Detection and Elimination			
0	0	60000	Storm water utility
Element: Construction Site Pollutant Control			
0	0	0	Permit fee and/or deposit/escrow
Element: Post-Construction Storm Water Management			
0	0	0	General revenue fund
Element: Pollution Prevention			
393851	361527	1437913	Storm water utility
Element: Storm Water Quality Management			
14561	14561	52632	Storm water utility
Element: Storm Sewer System Map			
0	0	0	Storm water utility

Other (describe)

Diggers Hotline Locates, Projects, Salaries/Wages, Repairs / Maintenance			
178371	233004	243220	Storm water utility

Please provide a justification for a "0" entered in the Fiscal Analysis

The City of Waupun does not break out funding into permit program elements. This is the best estimate as to where the funding goes.

Water Quality

a: Were there any known water quality improvements in the receiving waters to which the municipality's storm sewer system directly discharges to?

○ Yes ◉ No ○ Unsure If Yes, explain below:

b : Were there any known water quality degradation in the receiving waters to which the municipality's storm sewer system directly discharges to?

○ Yes ◉ No ○ Unsure If Yes, explain below:

c: Have any of the receiving waters that the municipality discharges to been added to the impaired waters list during the reporting year?

○ Yes ◉ No ○ Unsure

d: Has the municipality evaluated their storm water practices to reduce the pollutants of concern?

◉ Yes ○ No ○ Unsure

Additional Information

Based on the municipality's storm water program evaluation, describe any proposed changes to the municipality's storm water program. If your response exceeds the 200 character limit, attach supplemental information on the attachments page.

Missing Information

Do not close your work until you SAVE.

Requests for Assistance on Understanding Permit Programs

Would the municipality like the Department to contact them about providing more information on understanding any of the Municipal Separate Storm Sewer Permit programs?

Please select all that apply:

- ☐ Public Education and Outreach
- ☐ Public Involvement
- ☐ Illicit Discharge Detection and Elimination
- ☐ Construction Site Pollutant Control
- ☐ Post-Construction Storm Water Management
- ☐ Pollution Prevention
- ☐ Storm Water Quality Management
- ☐ Storm Sewer System Map
- ☐ Water Quality Concerns
- ☐ Compliance Schedule Items Due
- ☐ MS4 Program Evaluation

Do not close your work until you **SAVE.**

Required Attachments and Supplemental Information

Any other MS4 program information for inclusion in the Annual Report may be attached on here. Use the Add Additional Attachments to add multiple documents.

Upload Required Attachments (15 MB per file limit) - Help reduce file size and trouble shoot file uploads
*Required Item

Note: To replace an existing file, use the 'Click here to attach file ' link or press the to delete an item.

Storm Sewer System Map

File Attachment — StormSewerMap.pdf

Attach Documents

AR_SWGroupReportFIN

File Attachment — 2018FinalReport1_23_2019-ProtectWIWatertway_pdf.pdf

AR_SWGroupReportFIN

File Attachment — RRSWG2019PublicEducationandOutreach.pdf

AR_SWGroupReportFIN

File Attachment — RRSWGMetrics.pdf

AR_MuniFacInspFIN

File Attachment — pondinsoection-mayfair-5-15-18.pdf

AR_MuniFacInspFIN

File Attachment — pondinsoection-tacobell-5-15-18.pdf

AR_MuniFacInspFIN

File Attachment — pondinspection-shaler-hwy26-5-15-18.pdf

AR_MuniFacInspFIN

File Attachment — pondinspection-shaler-lincoln5-15-18.pdf

AR_MuniFacInspFIN

File Attachment

pondinspection-winter-5-15-18.pdf

AR_PCSSWFIN

File Attachment

ordinance_18-01StormwaterManagementOrdinance.pdf

AR_CSPCFIN

File Attachment

ordinance_18-02-SiteConstructionOrdinance.pdf

(To remove additional items, use your cursor to hover over the attachment section. When the drop down arrow appears, select remove item)

Missing Information

Draft and Share PDF Report with Municipality's Governing Body.

Press the button below to create a PDF. The PDF will be sent to the email address associated with the WAMS ID that is signed in. After the annual report has been approved by the governing body, you will have to come back to the MS4 eReporting system to submit the report to the DNR.

Draft and Share PDF Report with Municipality's Governing Body

Do not close your work until you **SAVE.**

Sign and Submit Your Application

Steps to Complete the signature process

1. Read and Accept the Terms and Conditions
2. Press the Submit and Send to the DNR button

NOTE: For security purposes all email correspondence will be sent to the address you used when registering your WAMS ID. This may be a different email than that provided in the application. For information on your WAMS account click HERE.

Terms and Conditions

Certification: I hereby certify that I am an authorized representative of the municipality covered under Waupun City MS4 Permit for which this annual report or other compliance document is being submitted, and that the information contained in this submittal and all attachments were gathered and prepared under my direction or supervision. Based on my inquiry of the person or persons under my direction or supervision involved in the preparation of this document, to the best of my knowledge, the information is true, accurate, and complete. I further certify that the municipality's governing body or delegated representatives have reviewed or been apprised of the contents of this annual report. I understand that Wisconsin law provides severe penalties for submitting false information.

Signee (must check current role prior to accepting terms and conditions)

○ Authorized municipal contact using WAMS ID.

○ Delegation of Signature Authority (Form 3400-220) for agent signing on the behalf of the authorized municipal contact.

○ Agent seeking to share this item with authorized municipal contact (authorized municipal contact must get WAMS id and complete signature).

Authorized Signature.

☐ I accept the above terms and conditions.

After providing the final authorized signature, the system will send an email to the authorized party and any agents. This email will include a copy to the final read only version of this application.

2018 Final Report

2018 Year-in-Review

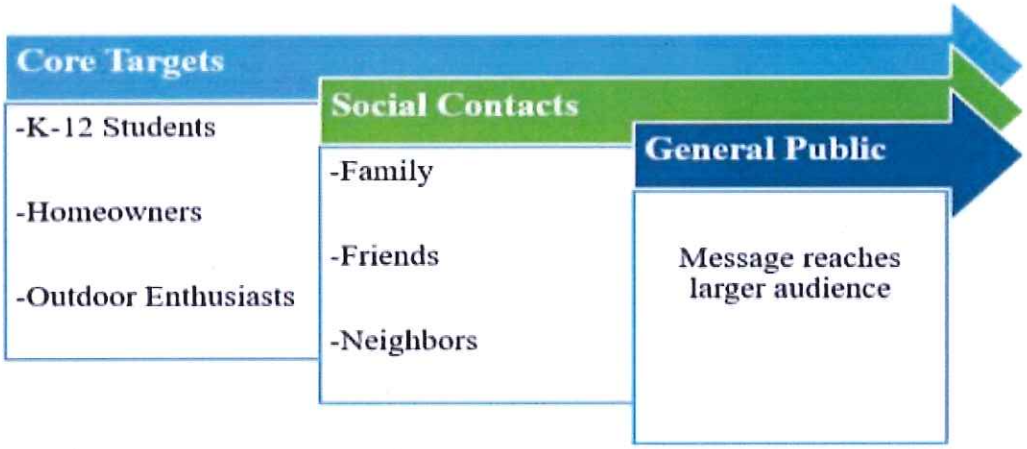
Introduction

The following document provides an overview of the public education and outreach activities conducted by the Rock River Stormwater Group (branded as Protect Wisconsin Waterways) during the 2018 calendar year.

Continuing the outreach initiatives and focus on the 2017 rebranding to "*Protect Wisconsin Waterways,*" a large portion of the group's efforts in 2018 were focused on expanding the group's presence throughout member communities to educate the general public about what stormwater includes and the impact of stormwater on the environment. Other key initiatives for the year included focusing on increasing digital communications through social media outreach and our website, engaging the general public through an increased presence at community events within the municipality groups, furthering connections to K-12 educators and students via educational outreach presentations along with providing educational content to instructors, and branching our efforts out to an older audience through engaging and educational video content, along with connecting at community events.

Target Audiences & Outreach Communication Model

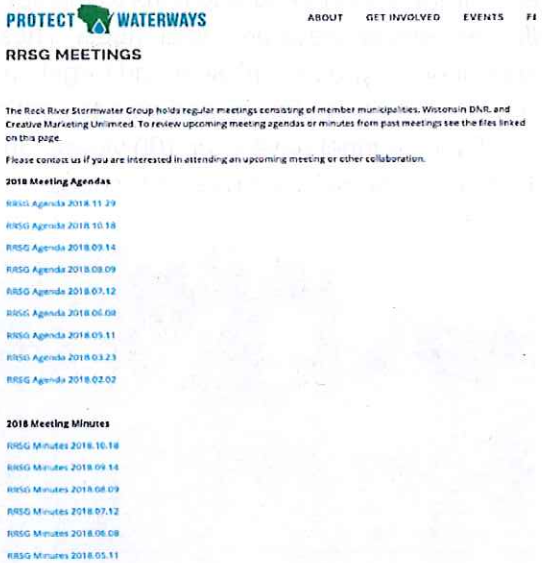
The approach taken during 2018 was to target three core audiences within the general public and to expand on this approach. The general core targets were K-12 students, homeowners, and outdoor enthusiasts. By extension through these groups' social networks, we would also be reaching the friends, families, and neighbors of these individuals and engaging a larger audience as Protect Wisconsin Waterways advocates. An outreach goal for 2018 was also to continue to engage a more diverse audience including greater connection with homeowners.



Initiative #1: Increased Awareness of Protect Wisconsin Waterways
2017 represented the first year using the Protect Wisconsin Waterways brand. In 2018, we focused outreach efforts on continuing to increase awareness for the new brand to help establish the interconnected nature of stormwater and area waterways beyond just the Rock River.

Initiative #2: Increased Digital Presence & Outreach
The group also continued to build out digital outreach efforts to expand our reach and develop more content of interest to different targets. The introduction of our mascot Splash is a great example of this and has been used in a variety of social media posts as well as increased attendance at several events that also garnered newspaper/local media coverage. The team enhanced our efforts on maintaining and adding to the website (protectwiwaterways.org), continued our educational animated video series, continued delivering our monthly e-newsletter, and continued engaging our audience on social media through Facebook, Twitter, and Instagram channels. Additionally, we added a wider variety of content on the video marketing front. In 2018, we launched a video series called 'Why I Protect Wisconsin Waterways' as well as a series of stormwater fact street interviews. The following section provides a highlight of the digital presence and related metrics for 2018.

Website:
Additional content was added to the website including summaries of events, meeting minutes, a blog, featured waterway facts and histories, municipality training videos and related documents, and educational lesson plans for K-12 educators. Additionally, the team enhanced search engine optimization and readability of all pages. The team also scanned the website and added cleaner, more aesthetically appealing in-house photography to help build the brand and tell a uniform story. The website still contains educational content previously uploaded as well as an online pledge to protect Wisconsin waterways. In 2018 the website received 5,861 visits from 2,363 unique users.


PROTECT WATERWAYS ABOUT GET INVOLVED EVENTS

RRSG MEETINGS

The Rock River Stormwater Group holds regular meetings consisting of member municipalities, Wisconsin DNR, and Creative Marketing Unlimited. To review upcoming meeting agendas or minutes from past meetings see the files linked on this page.

Please contact us if you are interested in attending an upcoming meeting or other collaboration.

2018 Meeting Agendas

RRSG Agenda 2018.11.29
RRSG Agenda 2018.10.18
RRSG Agenda 2018.09.14
RRSG Agenda 2018.08.09
RRSG Agenda 2018.07.12
RRSG Agenda 2018.06.08
RRSG Agenda 2018.05.11
RRSG Agenda 2018.03.23
RRSG Agenda 2018.02.02

2018 Meeting Minutes

RRSG Minutes 2018.10.18
RRSG Minutes 2018.09.14
RRSG Minutes 2018.08.09
RRSG Minutes 2018.07.12
RRSG Minutes 2018.06.08
RRSG Minutes 2018.05.11

Stormwater 101 Video Series:
The *Stormwater 101* video series continues to provide an animated, educational video series that is designed to simplify stormwater-related concepts. Using a child voiceover, the videos keep things simple while appealing to a K-6th grade audience as well as their families. We received over 500 views on our YouTube channel in 2018.

Protect Wisconsin Waterways: Erosion

Protect Wisconsin Waterways: Grass Clippings

Protect Wisconsin Waterways: Fertilizer

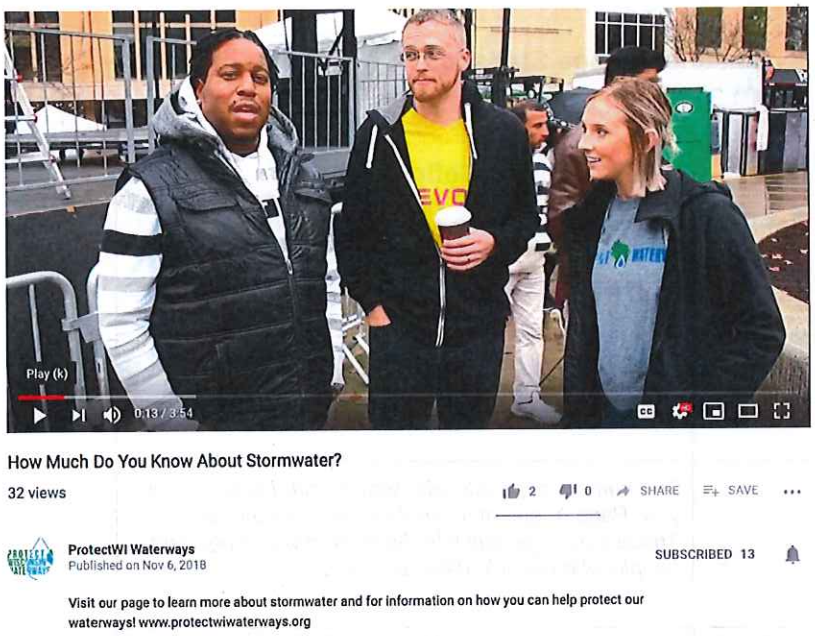
Protect Wisconsin Waterways: Salt Use

'Why I Protect WI Waterways' Video Series:
The '*Why I #ProtectWiWaterways'* video series launched toward the end of 2018 to showcase individuals giving short descriptions, stories, or anecdotes describing why they protect Wisconsin's waterways. The videos can be taken by participants themselves and are meant to encourage sharing and additions to the series from other viewers using the hashtag #protectwiwaterways on social media. These videos highlight the storytelling and emotional appeal of the group's mission and targets a slightly older demographic. The group created four videos at the end of 2018 and plan to continue this series into 2019. The videos on our YouTube channel have over 100 views. On Facebook they've reached over 200 people, and on Twitter they've reached over 300 people.

Why I #ProtectWiWaterways - Danny's Story

'Street Interview' Video Series:

In 2018 the group started a 'street interview' video series. This series consists of asking residents "on the street" basic stormwater fact questions and filming their responses. The idea of this series is to provide insight into how little the average person knows about stormwater while providing educational content with the correct answers. The goal is to create a humorous piece of engaging content that can be shared across social media and on YouTube that simultaneously targets an older audience and provides insight into our group's mission. We hoped to create something that can be easily replicated at events and school visits. Our first video was done during the Madison Farmers Market at the end of Fall, and our group plans to continue these videos in the RRSG municipalities. On YouTube the video has over 50 views, on Facebook it has reached over 300 people, and on Twitter it has reached 67 people.



Protect Wisconsin Waterways Pledge

In 2018 Protect Wisconsin Waterways offered our Waterway Protector pledge both online and in person at community events. The pledge asks individuals to commit to different activities that will minimize their personal impact related to stormwater runoff. During the 2018 year, Protect Wisconsin Waterways received a total of over 50 pledges.

Social Media & Outreach:

In 2018, Protect Wisconsin Waterways worked to create a more unified and engaging presence for the RRSG on social media. Our efforts spanned across Facebook, Twitter, and an increased focus on Instagram. Instagram, being the fastest growing social media platform allows the group to push our message to a larger audience by telling stories through aesthetically pleasing visual imagery. In addition to sharing relevant content about stormwater runoff issues in RRSG communities and 'Stormwater Fact Fridays,' the group centralized on promoting media content. This included event photography, featured waterway photography, video content, GIF content, and more. Examples can be seen below along with total reach and engagement statistics for Facebook, Twitter, and Instagram.

Social Media Metrics 2018

Facebook Page Statistics

(2018) 301 Page Likes & 207 Posts

	2018	Definition
Engaged Page Users	1,501	*The number of people who engaged with your Page. Engagement includes any click or story created. (Unique Users)*
Total Reach	15,541	*The number of people who have seen any content associated with your Page. (Unique Users)*
Organic Reach	15,379	*The number of people who visited your Page, or saw your Page or one of its posts in news feed or ticker. These can be people who have liked your Page and people who haven't. (Unique Users)*
Viral Reach	6,187	*The number of people who saw your Page or one of its posts from a story shared by a friend. These stories include liking your Page, posting to your Page's timeline, liking, commenting on or sharing one of your Page posts, answering a question you posted, responding to one of your events, mentioning your Page, tagging your Page in a photo or checking in at your location. (Unique Users)*
Total Impressions	29,470	*The number of impressions seen of any content associated with your Page. (Total Count)*

Twitter Statistics: 201 followers & 18 Tweets

	2018	Definition
Impressions	19,715	*Number of times users see the tweet on Twitter*
Engagement	917	*Total number of interactions with a tweet. This includes all clicks, retweets, replies, follows, and likes*
Average Engagement Rate	4.7%	*The number of engagements divided by impressions*

Instagram Statistics: 216 Followers & 103 Posts

	2018	Definition
Total Impressions	26,386	*Number of times users saw the post on Instagram.*
Total Likes	5,621	*Total number of likes on each post.*
Average Engagement Rate	21.3%	*The number of like divided by impressions*

Instagram Content:

PROTECT WATERWAYS

Twitter Content:

Protect Wisconsin Waterways @ProtectWWater · 14 Nov 2018
Check out our featured waterway for the month of November, The Horicon Marsh! #protectwwaterways

Show this thread

Protect Wisconsin Waterways @ProtectWWater · 17 Oct 2018
October's Runoff Rundown is here! Click to the link below to learn more & receive our monthly informational newsletter. #protectwwaterways

The Runoff Rundown - Protect Wisconsin Waterways
Read the latest news, tips, and more about stormwater runoff from the Rock River Stormwater Group in our monthly e-newsletter The Runoff Rundown.
protectwaterways.org

Protect Wisconsin Waterways @ProtectWWater · 15 Oct 2018
BIG FACTS: "The timely removal of leaf litter can reduce harmful phosphorus concentrations in stormwater by more than 80%". #protectwwaterways

Removing fallen leaves can improve urban water q...
The timely removal of leaf litter can reduce harmful phosphorus concentrations in stormwater by more than 80% in Madison, Wis., according to a recent U.S. Geolo...
stormwatercwf.org

Protect Wisconsin Waterways @ProtectWWater · 3 Oct 2018
What happens when it snows? We have to make sure roads/walkways aren't too slippery, let's learn this month how to do that & #protectwwaterways

Protect Wisconsin Waterways @ProtectWWater · 12 Nov 2018
Splash sure does love his fans! #protectwwaterways

Protect Wisconsin Waterways @ProtectWWater · 25 Dec 2018
Happy holidays from the #protectwwaterways team! (Especially splash)

Protect Wisconsin Waterways @ProtectWWater · 26 Dec 2018
This month we look at some film photos by @dannyballster of the Rock River in Fort Atkinson. #protectwwaterways

PROTECT WATERWAYS

Facebook Content:

Protect Wisconsin Waterways is at Purdy Elementary.
February 27 · Fort Atkinson ·

Today we visited Purdy Elementary School in Fort Atkinson. We were able to talk to 247 students, and turn them all into honorary Wisconsin Waterway protectors!!
#PurdyElementary #FortAtkinson #PWW

1,260 People Reached | **326** Engagements | Boost Post

10 | 1 Comment 5 Shares

Like | Comment | Share

Performance for Your Post

1,260 People Reached

61 Reactions, Comments & Shares

50 Like	**11** On Post	**39** On Shares
2 Love	**0** On Post	**2** On Shares
2 Comments	**1** On Post	**1** On Shares
7 Shares	**5** On Post	**2** On Shares

265 Post Clicks

117 Photo Views	**0** Link Clicks	**148** Other Clicks

NEGATIVE FEEDBACK

0 Hide Post | **0** Hide All Posts
0 Report as Spam | **0** Unlike Page

Reported stats may be delayed from what appears on posts

Initiative #3: Outreach & Engagement via Community Events

CMU provided RRSG (Protect Wisconsin Waterways) with an increased presence at various community events from February through November 2018. Most of these events occurred in an outdoor setting and provided a public outreach opportunity to speak with community members about stormwater. Community events included our municipality wide sweep, several farmers markets, library visits, community events, and other miscellaneous events across RRSG communities; for a total of 25 community outreach events. Plans for 2019 include a Protect Wisconsin Waterways summer camp, trivia nights, and a more ambitious clean-up across RRSG's municipalities. The following pages provide a more detailed summary on the different events as part of community outreach efforts.

Most events included a Protect Wisconsin Waterway's table, use of pop-up banners displaying information about stormwater runoff and its impact, Enviroscape models to demonstrate, and hands-on activities targeting children. Brochures and other information were distributed to adults. Promotional items were distributed to event participants to increase RRSG/Protect Wisconsin Waterways' brand awareness.

NEW MASCOT: Additionally, the team introduced our new mascot Splash to the public. The objective of Splash was to gain the interest of families at events. This new addition proved to be a huge help in connecting with the kids as well as making the face of Protect Wisconsin Waterways friendlier. Splash was able to pay a visit to a majority of our summer events, as well as a few schools visits in the community. Splash was also featured in a number of our social media posts and received media attention from local newspapers covering certain community events.

Date: March 10th, 2018

Location: Janesville Hedberg Library

Event Name: Janesville Sustainable Living Fair

Amount of People Engaged: 102

Length: 10:00am - 1:00pm

Style: Tabling Event and Enviroscape

Number of Protect Wisconsin Waterways Representatives: Ten

The Protect Wisconsin Waterways crew had a successful event at the 2018 Janesville Sustainable Living Fair! We were interviewed by 103.5 WADR radio station about the mission of our organization. We capitalized on this great Public Relations opportunity.

Our representatives engaged with citizens and families who share a common interest in sustainable practices. It was exciting to show people the adverse effects of stormwater and what they could do around their home to prevent stormwater pollution.

This was the first event our mascot, Splash attended! There was a very positive response to the new addition to our team, especially with the children. We used the Enviroscape to show event attendees the many factors that affect stormwater. Children and families saw a short presentation on the Enviroscape and were encouraged to move to the coloring station and sign our pledges as a family.

Date: March 31th, 2018

Location: Gantry Park & Participating Businesses

Event Name: Beloit Easter Eggstravaganza

Amount of People Engaged: 400+

Length: 1:00pm – 3:00pm

Style: Tabling Event and Enviroscape

Number of Protect Wisconsin Waterways Representatives: 3

The Protect Wisconsin Waterways crew had a very successful event at the 2018 Beloit Easter Eggstravaganza on March 31. They were very interested in learning more about Protect Wisconsin Waterways along with ways they can help out around their homes. We engaged with many families and showed people the adverse effects of stormwater.

Splash drew the most attention at the event and many families took photos with him. We also used the Enviroscape to show event attendees the many factors that affect stormwater runoff.

PROTECT WATERWAYS

Date: April 11th, 2018

Location: University Center UWW

Number Engaged: 39

Length: 10:30pm - 12:30pm

Style: Tabling

Number of Protect Wisconsin Waterways Representatives: 5

The Protect Wisconsin Waterways team presented during Earth Week at the University of Wisconsin-Whitewater in the James R. Connor University Center. The event represented an on-campus tabling event where we interacted primarily with students – many more walked past while on their way to class. One of the most notable moments from this event was when elementary students walked through the UC. A group of 15 students came over to hear about our Enviroscape presentation and how they can help around their community. We used the Enviroscape to show attendees the many factors that affect stormwater. Our team is looking forward to trying new ways to engage students and faculty on campus!

Date: April 21st, 2018

Location: Beloit Public Library

Event Name: Earth Day Event

Amount of People Engaged: 40

Length: 2:00pm - 3:30pm

Style: Tabling Event and Enviroscape

Number of Protect Wisconsin Waterways Representatives: 2

The Protect Wisconsin Waterways crew had a very successful event at the 2018 Beloit Public Library Earth Day Event on April 21! Our team engaged with families and children who were interested in learning more about Protect Wisconsin Waterways. We showed children the adverse effects of stormwater and told them how they could protect our waterways with the help of their parents and on their own. We used the Enviroscape to show event attendees many pollutants that affect stormwater. After hearing a short presentation on the Enviroscape.

Date: April 21st, 2018

Location: Janesville Rotary Gardens

Number Engaged: 106

Length: 10:00 – 2:00pm

Style: Enviroscape presentation

Number of Protect Wisconsin Waterways Representatives: 6

The Protect Wisconsin Waterways Team had a very successful event at the Janesville Rotary Gardens on April 21, 2018 to celebrate Earth Day! At the event, our representatives spoke with children and families to teach them more about how we all can do our part to protect our waterways. Children came to our table to talk to Splash and watch the interactive Enviroscape demonstration. While the children were learning about the Enviroscape, we spoke with their parents about the importance of our mission. In addition, Splash contributed a great deal to the success of the event. Many people wanted pictures with Splash! Throughout the day, we engaged over one hundred people.

Date: May 1st, 2018

Location: 301 W Whitewater Street

Event Name: Whitewater City Market

Amount of People Engaged: 50

Length: 4:00pm - 7:00pm

Style: Tabling Event and Enviroscape

Number of Protect Wisconsin Waterways Representatives: 5

Protect Wisconsin Waterways attended the Whitewater City Market on May 1st, 2018. Our representatives primarily engaged with Whitewater residents along with a few college students that were at the City Markets. We used the Enviroscape along with information pamphlets with more information about stormwater and how to keep stormwater run-off clean.

Date: June 2nd, 2018

Location: City Hall Parking Lot (201 E. Main Street) (Waupun)

Event Name: Waupun Farmers Market

Amount of People Engaged: 31

Length: 8:00am - 12:00pm

Style: Tabling Event and Enviroscape

Number of Protect Wisconsin Waterways Representatives: 5

The Protect Wisconsin Waterways crew visited with city residents at the Waupun Farmers Market on June 2nd, 2018. Our representatives engaged with citizens and families that share a common interest in sustainable practices. We brought the Enviroscape demonstration to this event and emphasized the importance of properly disposing of grass clippings as this is a large contributor to stormwater runoff pollution during the summertime.

Attendees were supportive of our mission and several indicated they already practice some alternative actions around their home that we suggested. After families saw a short presentation on the Enviroscape, they received pamphlets with more information about protecting stormwater. We also encouraged everyone to sign up for our Rock River clean up event planned for September 8th.

Overall, there was a positive response to our brand and many citizens expressed their appreciation for our mission. We also encouraged individuals and families to sign our pledge to Protect Wisconsin's Waterways.

Date: June 3rd, 2018

Location: 1711 Lodge Drive, Janesville, WI 53545

Event Name: Basics Cooperative Block Party

Amount of People Engaged: 132

Length: 1:00pm - 5:00pm

Style: Tabling Event, Enviroscape, and Splash

Number of Protect Wisconsin Waterways Representatives: 4

The Protect Wisconsin Waterways crew participated in the Basics Cooperative Block Party in Janesville on Sunday, June 3rd. Our representatives engaged with citizens and families that share a common interest in sustainable practices. We used the Enviroscape to show attendees the many factors that affect stormwater. We had a very positive response, especially from children who enjoyed viewing the Enviroscape and helping us "make it rain". Our mascot Splash was also a big hit with children and families. After hearing about the Enviroscape, attendees received pamphlets with more information about protecting stormwater and Protect Wisconsin Waterways.

Date: June 3rd, 2018

Location: 5013 W State Road 11

Event Name: Rock County Farmers Market

Amount of People Engaged: 30

Length: 9:00am - 1:00pm

Style: Tabling Event and Enviroscape

Number of Protect Wisconsin Waterways Representatives: 5

The Protect Wisconsin Waterways crew visited the Rock County Farmers Market on June 3rd, 2018 located at a landscape/nursery outside of Janesville, WI. Our representatives engaged with families who share a common interest in sustainable practices. Despite the harsh wind conditions, we were excited to show people the adverse effects of stormwater and what they could do around their home to help prevent these effects. We used the Enviroscape to show event attendees many factors that affect stormwater. After families watched a presentation on the Enviroscape, they received pamphlets with more information about protecting stormwater and our brand. We received five pledges from the 30 attendees we interacted with at the Rock County Farmers' Market event.

Date: June 5th, 2018

Location: 301 W Whitewater Street

Event Name: Whitewater City Market

Amount of People Engaged: 47

Length: 4:00pm - 7:00pm

Style: Tabling Event and Enviroscape

Number of Protect Wisconsin Waterways Representatives: 5

Protect Wisconsin Waterways attended the Whitewater City Market on June 5th, 2018. Our representatives primarily engaged with Whitewater residents along with a few college students that were at the City Markets. We used the Enviroscape along with information pamphlets with more information about stormwater and how to keep stormwater run-off clean.

Date: June 16th, 2018

Location: South Main Street, Fort Atkinson, WI 53538

Event Name: Fort Atkinson Farmers Market

Amount of People Engaged: 50

Length: 8:00am - 12:00pm

Style: Tabling Event, Enviroscape, and Splash

Number of Protect Wisconsin Waterways Representatives: 6

The Protect Wisconsin Waterways crew had a successful event at the Fort Atkinson farmers market on Saturday, June 16, 2018. Our representatives engaged with citizens and families that share common interests in sustainable practices. We showed people the adverse effects of stormwater and what they could do around their home to help prevent these effects.
Our mascot Splash was a big hit, especially with children and families. During this event, Splash drew attention walking around and was even asked to stop in a local coffee shop for a birthday party! We also met with someone who has connections with NASA Water Safety Science Projects. The Enviroscape showed event attendees the many pollutants of stormwater. Attendees also received pamphlets with more information about protecting stormwater.

Date: August 11th, 2018

Location: Fort Atkinson (Bark River - Highway N (Burnt-Village) to Haumerson's Pond)

Event Name: Family Fun Float

Amount of People Engaged: 34

Length: 9:30am - 12:30pm

Style: Kayaking

Number of Protect Wisconsin Waterways Representatives: 2

The Protect Wisconsin Waterways crew had a wonderful time at the Bark River Family Fun Float on Saturday, August 11th. Here, our representatives engaged with citizens and families that shared a common interest in our waterways, mainly the Bark River. We also used this event as a way to promote our Protect Wisconsin Waterways Sweep which was on September 8th and gave them Fort Atkinson specific flyers so they knew where to go for the event. Due to the nature of the event, we weren't able to give any sort of demonstration on proper stormwater practices, but we were able to promote our brand to the community members as well as hand out pamphlets and pens with the appropriate information highlighted on them. Overall, the event was an enjoyable time, and we were able to travel along the Bark River and put some of the things we've presented to other event attendees into perspective. Erosion could be seen along the shore and on a few trees from when the water was three feet higher.

Date: August 11th, 2018

Location: Waupun City Hall Parking Lot (201 E. Main Street)

Event Name: Waupun Farmers Market

Amount of People Engaged: 43

Length: 8:00am - 12:00pm

Style: Tabling Event and Enviroscape

Number of Protect Wisconsin Waterways Representatives: 4

The Protect Wisconsin Waterways crew visited with city residents at the Waupun Farmers Market on August 11th, 2018. Our representatives engaged with citizens and families that share a common interest in sustainable practices. We brought the Enviroscape demonstration to this event and emphasized the importance of properly disposing of grass clippings as this is a large contributor to stormwater runoff pollution during the summertime.

Attendees were supportive of our mission and several indicated they already practice some alternative actions around their home that we suggested. After families saw a short presentation on the Enviroscape, they received pamphlets with more information about protecting stormwater. We also encouraged everyone to sign up for our Rock River clean up event planned for September 8th.

Overall, there was a positive response to our brand and many citizens expressed their appreciation for our mission. We also encouraged individuals and families to sign our pledge to Protect Wisconsin's Waterways.

PROTECT WATERWAYS

Date: August 14th, 2018

Location: Cafe Carpe in Fort Atkinson

Event Name: Sippin' on Science

Amount of People Engaged: 35

Length: 6:00pm - 8:30pm

Style: Tabling Event, Enviroscape

Number of Protect Wisconsin Waterways Representatives: 3

The Protect Wisconsin Waterways crew had a successful event at the Sippin' on Science event! The event was held at Cafe Carpe in Fort Atkinson, WI on Tuesday, August 14. Our representatives engaged with citizens and families who are interested in the environment and sustainable practices. We had a very positive response to our brand, while many individuals told us they were excited about our efforts. We were also approached by families who saw our demonstration at previous community events. We used the Enviroscape to show event attendees the factors that affect stormwater. After the presentation, attendees received pamphlets with more information about who we are and how to protect stormwater.

Date: September 29th, 2018

Location: Jefferson Elementary School

Event Name: Beaver Dam Street Cleanup

Amount of People Engaged: 10

Length: 9:00am – 10:00am

Style: Video Recording and Street Cleanup

Number of Protect Wisconsin Waterways Representatives: Two

On September 29, 2019, the Protect Wisconsin Waterways team helped the Beaver Dam Street Department clean leaves off the street. To ensure the fallen leaves do not end up in our waterways or clog our storm drains, the Beaver Dam Street Department requests that community members pile their leaves on the curb.
The Beaver Dam Street Department goes to the site with two Bobcats, a dump truck, and a street sweeper to clear the street of as many leaves as possible. We helped the Street Department push leaves into the street and Splash made an appearance to help clean up leaves. Pictures and videos of our event were posted on social media. The focus of our video is to inform our audience on the harm leaves can have on our rivers, lakes, and streams.

Date: October 13th, 2018

Location: UW-Rock County

Event Name: Super Science Saturday

Amount of People Engaged: 80

Length: 10:00am - 1:00pm

Style: Tabling Event and Enviroscape

Number of Protect Wisconsin Waterways Representatives: 4

The Protect Wisconsin Waterways team was at the Super Science Saturday event at UW-Whitewater at Rock County. The event primarily attracted families with grade-school aged children for a STEM educational event. We were excited to show people the adverse effects of stormwater and what they could do around their home to help prevent these effects. Like other events, the Enviroscape was used to show event attendees the many factors that can end up in stormwater runoff. We also engaged in conversations with individuals about how they were doing their part to protect our waterways. One of those individuals said he is always clearing the storm drain near his house. He said he has even gone outside during winter to chip ice away from the storm drains. We hope to capture more of these stories on video during future events to share on social media. After children and families were given a short presentation on the Enviroscape, they received pamphlets with more information about protecting stormwater as well as some promotional items.

Date: November 10th, 2018

Location: UW-Whitewater University Center - Old Main Ballroom

Event Name: Rock River Coalition 2018 Confluence

Amount of People Engaged: 40

Length: 8:30am - 2:00pm

Style: Tabling Event with Poster

Number of Protect Wisconsin Waterways Representatives: 3

Attending the Rock River Coalition's 2018 Confluence event on November 10 was a success for the Protect Wisconsin Waterways team! At the event, we talked to many Confluence attendees about our mission and educated attendees with our poster of 10 facts about stormwater. We connected with community members who are potential partners and advocates. Some also signed up to receive our monthly newsletter. During our time at the event, we handed out pamphlets with tips on how community members can prevent pollution along with other promotional items such as pens, pencils, stickers, and wristbands.

Date: September 8th, 2018

Location: 6 locations across municipalities

Event Name: 2018 Protect Wisconsin Waterways Sweep

Amount of People Engaged: 910 impressions/interactions

Length: 8:00am - 2:00pm

Style: Clean up/environmental protection

Total Volunteers: 130

Total Trash Collected: 37 bags

The Protect Wisconsin Waterways Sweep brought municipalities together to help clean up the Rock River. On the morning of the September 8th volunteers gathered to clean up trash and debris in the City of Whitewater, the City of Waupun, the City of Beaver Dam, the City of Milton, the Town of Beloit and the City of Beloit. Splash was on the move during the day and made appearances at multiple locations for photos and clean up help. Our crew was able to converse with the public about the group's mission, hand out informational brochures, and collect Waterway Protector pledges. This year the team drastically increased the number of volunteers (130), impressions/ interactions (910), and total trash collected (37 bags). This impact was due to an increase in the number of locations and an increase in the promotion of the event. The team worked to promote the Sweep via social media (Facebook, Twitter, and Instagram), email and the website, as well as, at community events. In 2019, we will aim for a grand total of 8 locations and increased promotion including boosted posts on social media, print media promotion, and earlier and more frequent promotion via digital channels.

Date: September 8th, 2018

Location: Cravath Lakefront Park 341 S Fremont St, Whitewater, WI

Event Name: 2018 Protect Wisconsin Waterways Sweep

Amount of People Engaged: 23 volunteers and 2 interactions

Length: 8:00am – 10:00am

Style: Clean up/environmental protection

Number of Protect Wisconsin Waterways Representatives: 2

The 2018 Protect Wisconsin Waterways Sweep in Whitewater was very successful in the City of Whitewater. There was a total of 23 volunteers, many of them University of Wisconsin-Whitewater students, with additional interactions with community members aside from the volunteers. Volunteers started at Cravath Lakefront Park, where they signed in and were given event t-shirts. At this initial location, the Protect Wisconsin Waterways backdrop was set up and Splash made an appearance to take photos with people. The clean-up effort in Whitewater moved to both Trippe Lake Park and the downtown area from its initial location. In all, 11 trash bags were filled by the volunteers. Overall, the 2018 Protect Wisconsin Waterways Sweep in Whitewater was highly beneficial for the community.

Date: September 8th, 2018

Location: West End Park Waupun, WI (initial location)

Event Name: 2018 Protect Wisconsin Waterways Sweep

Amount of People Engaged: 43 volunteers and 50+ impressions

Length: 8:00am - 10:00am

Style: Clean up/environmental protection

Number of Protect Wisconsin Waterways Representatives: 2

The 2018 Protect Wisconsin Waterways Sweep in the City of Waupun was highly successful. We had a total of 43 volunteers, from community members to students, cleaned clean up a total of 4 parks around the city. Over 50 impressions were made on community members. Due to the recent storms, volunteers were tasked with helping to clear brush from the parks and placed it near the street to be picked up by the city. At West End Park, the initial clean up location, volunteers signed in and then were offered event t-shirts. Volunteers could also take promotional items, such as pens and stickers. Overall, the 2018 Protect Wisconsin Waterways Sweep in Waupun was very beneficial to the community and had a great turnout.

Date: September 8th, 2018

Location: Preservation Park, 3444 Riverside Dr. Beloit WI

Event Name: Festival on the Rock (2018 Protect Wisconsin Waterways Sweep)

Amount of People Engaged: 15 volunteers and 285 interactions/impressions

Length: 8:00am - 10:00am

Style: Tabling/enviroscape presentation

Number of Protect Wisconsin Waterways Representatives: 2

At the Festival on the Rock, Protect Wisconsin Waterways representatives and volunteers talked with those who attended the festival. This particular part of the 2018 Protect Wisconsin Waterways Sweep was a tabling event where we demonstrated the mission and goals of Protect Wisconsin Waterways. The majority of those that engaged in watching the Enviroscape presentation were children and their parents. In addition, our mascot Splash made an appearance to meet and interact with the community. The Festival on the Rock acted as the celebration point for all of the hard work that our volunteers contributed throughout the entirety of the 2018 Protect Wisconsin Waterways Sweep.

Date: September 8th, 2018

Location: South Goodrich Park, on the corner of Parkview Dr. and High St.

Event Name: 2018 Protect Wisconsin Waterways Sweep
Amount of People Engaged: 8 volunteers and 549 engagements and impressions
Length: 8:00am – 10:00am
Style: Clean up/environmental protection
Number of Protect Wisconsin Waterways Representatives: 2

The 2018 Protect Wisconsin Waterways Sweep was a huge success in the City of Milton. The Protect Wisconsin Waterways team was able to go around Goodrich Park, as well as additional areas throughout Milton. A total of 8 volunteers were able to collect 9 garbage bags of trash and other materials. After the 8 volunteers collected trash, the event was to a local park where there were multiple youth football teams playing each other. At the football games, the Protect Wisconsin Waterways crew was able to inform over 500 people about the 2018 Protect Wisconsin Waterways Sweep and the overall mission. These conversations allow Protect Wisconsin Waterways to better tailor our message to the community.

Date: September 8th, 2018

Location: Rotary River Center, Riverside Park, 1160 S. Riverside Drive, Beloit, WI.

Event Name: 2018 Protect Wisconsin Waterways Sweep

Amount of People Engaged: 25 volunteers and 14 interactions/impressions

Length: 8:00am – 10:00am

Style: Clean up/environmental protection

Number of Protect Wisconsin Waterways Representatives: 2

The Protect Wisconsin Waterways Sweep in the City of Beloit was a success. At this location we had 25 volunteers helping to collect trash. In addition, the Protect Wisconsin Waterways crew was able to interact with 14 people. We were able to share a little bit about Protect Wisconsin Waterways. The 25 volunteers were able to collect 11 trash bags of garbage and debris that could harm our freshwater resources. Overall, the 2018 Protect Wisconsin Waterways Sweep made an impact at this location.

Date: September 8th, 2018

Location: Patrick Parker Conley Park 555 Fletcher Rd, Beaver Dam, WI

Event Name: 2018 Protect Wisconsin Waterways Sweep

Amount of People Engaged: 14 volunteers and 10 impressions

Length: 10:00am - 11:15am

Style: Clean up/environmental protection

Number of Protect Wisconsin Waterways Representatives: 2

The Protect Wisconsin Waterways Sweep in the City of Beaver Dam was a successful event. There were 14 volunteers at Patrick Parker Conley Park, where we cleaned up around the water and along the bike path next to the park. Clean up efforts filled 6 trash bags with the expected trash like candy wrappers and crushed cans, but also with the more exotic like a tire and a bike helmet. We were also able to make impressions upon community members using the dog park next to our clean up site, with Splash making an appearance there at the end of the event. At the event, volunteers were given event t-shirts and offered other promotional items, like pens and stickers. Refreshments were also offered to volunteers. Overall, the 2018 Protect Wisconsin Waterways Sweep in Beaver Dam was beneficial event.

PROTECT WATERWAYS

Initiative #4: Outreach & Engagement via K-12 Events

The last major initiative focuses on engaging K-12 educators/students through school presentations, primarily at the elementary school level. A total of four presentation days reaching 521 students (plus teachers) were completed during 2018. The presentations included an interactive discussion/lesson about stormwater and often incorporated the Enviroscape models to demonstrate the impact of stormwater runoff. Due to the rescheduling of a few school visits, we will be hosting more of these events in the spring 2019 semester. Additionally, the group created an online educational program with lesson plans. These were put on our website to allow educators to access them to use as additional activities in their science classes. This is an excellent way to reach educators and students who are not able to schedule presentations with during the school year.

Date: February 27th, 2018

Location: Fort Atkinson

School: Purdy Elementary

Grade: 1st, 2nd, 3rd,4th and 5th Grade

Number of Students: ~248

Length: 45 minutes - 1 hour per shift

Style: Classroom presentation

Number of Protect Wisconsin Waterways Representatives: Eight

On February 27, 2018, we had the opportunity to visit Purdy Elementary School in Fort Atkinson, Wisconsin. We presented our Protect Wisconsin Waterways PowerPoint and demonstrated the Enviroscape model to 1st through 5th grade classes. We reached over 248 students during our visit. Students were very engaged with the presentation, especially when speaking about their favorite waterway activities such as fishing, swimming, boating. In addition, the children were engaged during brainstorming sessions about how they can help around their house. During the Enviroscape presentation, children took turns squirting water on the model and explaining how "weather town" was similar to the rural area of Wisconsin around Fort Atkinson. At the end of our visit, the students continued with their regular lesson about runoff in science class.

Date: April 11th, 2018

Location: Whitewater (UW-Whitewater University Center)

School: Lincoln Elementary (4th and 5th grade)

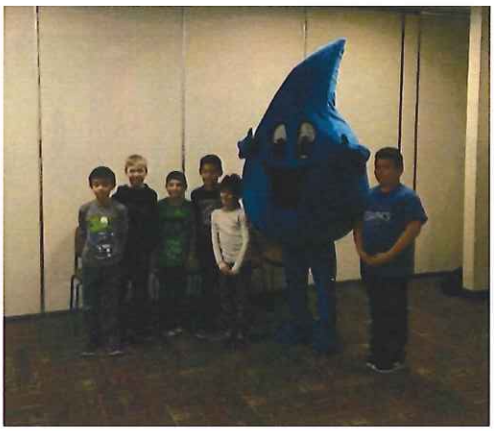
Number of Students: 120+

Length: 10:00am – 2:00pm

Style: Enviroscape presentation and PowerPoint

Number of Protect Wisconsin Waterways Representatives: 10

On April 11th, 2018, the Protect Wisconsin Waterways crew presented to children at the annual UW-Whitewater Science Outreach Fair. The event included 120+ children from Lincoln Elementary School in Whitewater. Our presentation included stormwater videos and facts. After the presentation, we separated the students into groups and gave a demonstration using the Enviroscape model. The children engaged with both the presentation and the Enviroscape. They asked many questions about how to help which we were happy to answer. By the end of our presentation, all students were given some Protect Wisconsin Waterways swag.



Date: November 16th, 2018

Location: Whitewater

School: Lincoln Elementary

Grade: 4th

Number of Students: 115

Length: 45 minutes - 1 hour shift

Style: Classroom presentation

Number of Protect Wisconsin Waterways Representatives: Three

On November 16th, Protect Wisconsin Waterways was able to visit Lincoln Elementary school in Whitewater, Wisconsin. The crew had a question filled time presenting to the entire fourth grade class at Lincoln. We presented our Protect Wisconsin Waterways PowerPoint and demonstrated the Enviroscape model. There were approximately 115 students present that day during our visit. The children were very engaged with brainstorming ideas about how they can help around their house, and had a lot of questions for Splash when he paid a visit. The kids even asked about Splash's parents and what they were doing to help out. At the end of our visit, the students continued with their lesson about runoff.

Date: December 7th, 2018

Location: St. Joseph's Catholic School

Grade: 6th-8th grade

Number of Students: 38

Length: 1:00pm - 1:30pm

Style: Educational Outreach

Number of Protect Wisconsin Waterways Representatives: Three

On December 7th, three representatives from the Protect Wisconsin Waterways crew presented in front of 38 students ranging from grades 6th to 8th. To begin the presentation, the team displayed our interactive overview PowerPoint about Protect Wisconsin Waterways and a basic overview of stormwater as well as the various ways it can be polluted. As we progressed through the PowerPoint, students were able to answer questions regarding stormwater and give their perspectives on what can pollute our freshwater resources. After the kids were able to provide their perspective and answer the various questions on the PowerPoint, the team was able to inform them about how they can help to prevent these various forms of pollution in their everyday lives. Once the PowerPoint concluded, the kids gathered around the Enviroscape where we demonstrated the various forms of pollution. After the Enviroscape, we had a short question and answer session with the kids to clarify any ideas we presented within the Enviroscape or PowerPoint. To conclude the school visit, we gave all the kids pens.

PROTECT WATERWAYS

2018 Activities & RRSG's Public Education & Outreach Goals

The following section outlines the relationship of RRSG's specific activities and accomplishments to the group's public education and outreach goals.

Goal 1: Promote detection and elimination of illicit discharges and water quality impacts associated with such discharges from municipal storm sewer systems.

1. We created an illicit discharge infographic that highlighted three different categories of illicit discharge: residential, commercial, and industrial to include in the illicit discharge monthly e-newsletter.
2. A "Report a Violation" tab was added to the website that allows website users to report illicit discharge violations in 2017. No violations were reported via the website in 2018.
3. The Stormwater 101 video that simplified the definition of illicit discharge received 38 views in 2018.

Goal 2: Inform and educate the public about the proper management of materials that may cause stormwater pollution from sources including automobiles, pet waste, household hazardous waste, and household practices.

1. Content was developed for the website and sharing on social media that educated the general public through newsletter articles, "Stormwater Fact Fridays" shared on social media, infographics to visually convey messaging, and pictures from our events.
2. New monthly themes were developed to provide consistent messaging and a focused topic for educating the public each month.
3. Our informational brochures were updated. These include basics of stormwater, a map of the watershed basins, links to website and social media, and tips for keeping our waterways clean. These brochures were distributed at all events in 2018.
4. RRSG had an increased community outreach presence at events across the area starting in February 2018. During each event, team members interacted with the general public, distributed brochures, and used activities to engage children/their families.
5. Clean up events were held in six different communities (City of Beloit, Town of Beloit, City of Beaver Dam, City of Milton, City of Whitewater, and City of Waupun).

Goal 3: Promote beneficial onsite reuse of leaves and grass clippings and proper use of lawn and garden fertilizers and pesticides.

1. Our monthly newsletter theme for October focused on leaf collection and mulching with the promotion of leaf collection dates in all RRSG municipalities.
2. We launched a YouTube video of Splash, our mascot helping clean up leaves in the City of Beaver Dam. This helped us to promote leaf collection in all municipalities.
3. We created a new infographic for how to utilize fallen leaves.
4. An updated grass clippings brochure was developed in 2018.
5. We created a new infographic for how to utilize grass clippings in the spring and summer.

Goal 4: Promote the management of streambanks and shorelines by riparian landowners to minimize erosion and restore and enhance the ecological value of waterways.

1. We went door-to-door in the community of Whitewater to hand out brochures to homeowners who live along the waterways about the benefits of keeping their waterways clean.
2. Six clean-up locations were conducted on September 9th as part of the Rock River Clean-up event. The group cleaned up two locations in Beloit, one in the City of Beaver Dam, one in the City of Waupun, one in the City of Whitewater, and one in the City of Milton. Plans were made to do a clean up in the City of Janesville and City of Fort Atkinson, but due to high water levels these locations were not safe to traverse.
3. Infographics and other newsletter content was developed regarding erosion for inclusion on the website and promoted via social media.

Goal 5: Promote infiltration of residential stormwater runoff from rooftop downspouts, driveways, and sidewalks.

1. Issues related to educating citizens on their impact on residential stormwater were explained in the #WhyIProtectWiWaterways videos, infographics, and social media content.
2. Informational brochures distributed at clean ups and other community events were created that included tips for keeping our waterways clean.
3. Event signage highlighted what stormwater runoff is and its impact.

Goal 6: Identify business and activities that may pose a stormwater contamination concern, and where appropriate, educate specific audiences on methods of stormwater pollution prevention.

1. Education efforts focused on K-12 discussed business and household activities that pose a stormwater contamination concern.
2. An Enviroscape interactive video was developed to educate the public on different stormwater contamination issues.
3. An online educational program was developed to allow K-12 educators to access our presentations and show them to their classes.
4. Initial conversations were had with select businesses to gauge interest in a business waterway protector program.

Rock River Stormwater Group

2019 Education and Outreach Plan

Audience	Activities	Notes	Responsible Parties	Timing/Deadline	Measures of Success
2.1 Public Education and Outreach – The permittee shall implement a public education and outreach program to increase the awareness of storm water pollution impacts on waters of the state to encourage changes in public behavior to reduce such impacts. The program shall establish measurable goals and, at a minimum include the following elements:					
2.1.1 Promote detection and elimination of illicit discharges and water quality impacts associated with such discharges from municipal storm sewer systems.					
General Public: • Homeowners • Outdoor Enthusiasts	Illicit discharge education	✓ Article and infographic on website ✓ Video series ✓ Brochure handed out to property owners during clean ups/community events ✓ Education at community events ✓ Storm drain protector program	CMU	January-December	# downloads # views # brochures distributed # engaged at events # of storm drain protectors
	Illicit discharge reporting	✓ Reporting form on website & social media ✓ Follow-up report to submitting individual ✓ Automatic reply for reporters ✓ Physical "Report a Violation" Form at events	CMU sends notification to RRSG member		# reported violations submitted

Audience	Activities	Notes	Responsible Parties	Timing/Deadline	Measures of Success
2.1.2 Inform and educate the public about the proper management of materials that may cause storm water pollution from sources including automobiles, pet waste, household hazardous waste, and household practices.					
General Public: • Homeowners • K-12 • College Students	"Stormwater 101" education	✓ Articles, Brochures & Blog Posts on website ✓ Social media posts on best practices ✓ Highlight best practices @ select events ✓ Continue "Stormwater 101 Video Series" ✓ Sustainability/Earth Week Events ✓ PR to newspapers/other outlets for events ✓ Monthly E-Newsletter	CMU	January-December *specific campaigns change based on season	Site engagement metrics for content # views/shares # media mentions #community events, event attendees # education events, event attendees # pledges, e-news signups
	Business protector program	✓ Stronger push toward implementing these in our municipalities		Year long	# of business protectors
	Utilize print media	✓ General Section ✓ Specific to each municipality ✓ Update with current events			# of print media advertised in # of print media distributed
	Storm drain protector	✓ Sales Style Internship Going door to door educating and signing up storm drain protectors. ✓ Online website section for storm drain protectors		June-August	# of storm drains protected
	Continuation of our digital initiatives	✓ #whyiprotectwiwaterways ✓ Street interview series ✓ Stormwater 101 Videos		Year long	# of views # of followers # of impressions engagements
Municipal Staff	Road Maintenance Workshop	✓ Stormwater Conferences ✓ Digital Training and video production			# of videos produced # of conferences attended

Audience	Activities	Notes	Responsible Parties	Timing/Deadline	Measures of Success
2.1.3 Promote beneficial onsite reuse of leaves and grass clippings and proper use of lawn and garden fertilizers and pesticides.					
General Public • Homeowners • Outdoor Enthusiasts • K-12	Specific focus on: 1) Leaf collection 2) Mulching 3) Grass clippings 4) Fertilizer	✓ See Stormwater 101 education under 2.1.2 ✓ Infographics and videos on focus areas	CMU	March-early November	# views/shares # brochures at clean up or other community events
Municipal Staff	"Keep Grass Out of Streets"	✓ Updated posters/brochures ✓ *Consider digital video for training ✓ Website content for staff	RRSG CMU provides updated design + web content	April-September	# brochures or flyers distributed by RRSG or CMU

Audience	Activities	Notes	Responsible Parties	Timing/Deadline	Measures of Success
2.1.4 Promote infiltration of residential storm water runoff from rooftop downspouts, driveways, and sidewalks					
General Public	✓ See 2.1.2 – Stormwater 101 education ✓ Rain Garden education on website and infographics		CMU	Year long	See measures from 2.1.2 – Stormwater 101 education

Audience	Activities	Notes	Responsible Parties	Timing/Deadline	Measures of Success
2.2 Public Involvement & Participation – The permittee shall implement a program to notify the public of activities required by this permit and to encourage input and participation from the public regarding these activities. The program shall include measurable goals for public involvement and participation and comply with applicable state and local public notice requirements.					
K-12	UWW Science Outreach	✓ UWW students in classrooms ✓ K-12 teacher training ✓ Service learning projects for after-school programs ✓ Protect Wisconsin Waterways summer camp	CMU, UWW	Year long	# of presentations # teachers reached and participating # students participating # of downloads of teacher material #of splash appearances
General Public	Community Club Presentations	✓ Digital Presentation ✓ Paper Handouts ✓ Specific to each area			# of presentations # of community club members reached
	Protect Wisconsin Waterways Clean-up	✓ 8 Locations ✓ Digital and Print Promotion ✓ Plans to increase overall turnout		September	# of participants # of bags of trash collected
K-12 General Public School Districts Teachers	Lesson plans	✓ Plan to develop more of these lesson plans. ✓ With lesson plans we can take the next step in being integrated into school curriculums.		Year long	# of teachers engaged # of students engaged # of lesson plans created
General Public	Community Events	✓ Farmers Markets, and other community events ✓ Throughout each municipality		Year long	# of Pledges # of Splash appearances # of people engaged

PROTECT WATERWAYS

Progress Report: Metrics

Facebook Page Statistics

297 Page Likes (+1) 15 Posts (September) 15 Posts (October)

	September	October	Definition
Engaged Page Users	106	129	*The number of people who engaged with your Page. Engagement includes any click or story created. (Unique Users)*
Total Reach	1228	1562	*The number of people who have seen any content associated with your Page. (Unique Users)*
Organic Reach	1209	1554	*The number of people who visited your Page, or saw your Page or one of its posts in news feed or ticker. These can be people who have liked your Page and people who haven't. (Unique Users)*
Viral Reach	483	730	*The number of people who saw your Page or one of its posts from a story shared by a friend. These stories include liking your Page, posting to your Page's timeline, liking, commenting on or sharing one of your Page posts, answering a question you posted, responding to one of your events, mentioning your Page, tagging your Page in a photo or checking in at your location. (Unique Users)*
Total Impressions	2147	2818	*The number of impressions seen of any content associated with your Page. (Total Count)*

Twitter Statistics

167 Followers (+9) 8 Tweets (September) 13 Tweets (October)

	September	October	Definition
Impressions	890	2513	*Number of times users saw the tweet on Twitter*
Engagements	103	299	*Total number of interactions with a tweet. This includes all clicks, retweets, replies, follows, and likes*
Average Engagement Rate	11.6%	11.9%	*The number of engagements divided by impressions*

Instagram Statistics

213 Followers (+8) 8 Posts (September) 9 Posts (October)

	September	October	Definition
Total Impressions	1627	2440	*Number of times users saw the post on Instagram.*
Total Likes	335	513	*Total number of likes on each post.*
Average Engagement Rate	20.6%	21.0%	*The number of likes divided by impressions*

PROTECT WATERWAYS

Event Statistics:

	# Engaged	Notes
Beaver Dam Leaf Clean-up- 10/29/2018	649 via video reach	**Location: Jefferson Elementary School, Brook Street, Beaver Dam, WI 53916** The Protect Wisconsin Waterways team sent representatives up to Beaver Dam to assist with the city's annual autumn leaf collection. This aligned well with Octobers theme of leaf collection. Splash was seen at the event getting his hands dirty doing some raking to help out the workers. Video of the event had a strong positive impact on social media.
Confluence Event (UW-Whitewater) - 11/10/2018	40	**Location: Old Main Ballroom, University Center, Whitewater, WI 53190** The Protect Wisconsin Waterways team sent a group to table at the Rock River Collation Fall Confluence Event. During check-in, lunch, and breaks attendees were able to visit different organizations that were tabling on behalf of their various efforts. Attendees were extremely interested in our mission and supporting our cause as our bigger goals aligned well. We debuted a new visual aid with 10 storm water facts that was used to grab the attention of the audience. This poster can be used at upcoming events as well.
Lincoln Elementary Whitewater School Visit- 11/16/2018	115	**Location: 242 S Prince St, Whitewater, WI 53190** The Protect Wisconsin Waterways team had a successful visit to Lincoln Elementary School in Whitewater. The group was able to present to the entire 4th grade class as a whole in the cafeteria. We presented our PowerPoint, complete with our storm water video, Q & A, and more. After this we passed out a worksheet for the kids to fill out. After discussing the answers with them, we presented the enviroscape to the group to give them a better visual on how storm water pollution works. After this it was time for a special guest (Splash) to make an appearance. If the kids were brave enough to ask a question or make a comment, they had a chance to get their photo with Splash and give him a high five. Before they left, it was encouraged for them to tell their parents what they learned, draw a picture in the space provided on the back of their worksheet, and have their parents connect with us on social media.

PROTECT WATERWAYS

Social Media Demographics

Facebook

Gender	Percentage
Male	63%
Female	36%
Age	**Percentage**
13-17	1%
18-24	49%
25-34	15%
35-44	13%
45-54	12%
55-64	6%
65+	4%

Twitter

Gender	Percentage
Male	51%
Female	49%

Twitter follower interests include dogs, tech news, weather, science news, national parks, and space/astronomy.

Instagram

Gender	Percentage
Male	46%
Female	54%
Age	**Percentage**
13-17	1%
18-24	59%
25-34	16%
35-44	14%
45-54	6%
55-64	3%
65+	1%

Scheduled Events or Those Nearing Final Scheduling

- **Rock County Brewing Company (Janesville)**
  - Trial date (12/2)
- **St. Joseph Catholic School Visit (Fort Atkinson)**
  - 1:00-2:00 (12/7)
- **Purdy Elementary School Visit (Spring event)**
  - Looking at dates in early spring/waiting to hear back on final date
- **City Of Beloit, CLC Program presentation (Fruzen Intermediate) (Spring event)**
  - Waiting to hear back on final date we will attend
- **Super Science Saturday (Spring event) – STEM program at UWW-Rock County**
  - Exact date tbd; received invite based on fall 2018 participation
- **Super Science Saturday (Summer event) – STEM program at UWW-Rock County**
  - Exact date tbd; received invite based on fall 2018 participation
- **Protect WI Waterways Sweep**
  - 8am-2 pm all municipalities: Saturday, September 7th

City of Waupun Stormwater Pond Operation, Maintenance, and Management Inspection Checklist

Stormwater Facility Name Location & Owner:	CITY OWNED POND MAYFAIR + WATERTOWN ST	Weather Condition: SUNNY 62°
Inspector(s)	TODD HARMSEN	
Date of Inspection	5-15-18	

Item	Inspection / Maintenance Item	Satisfactory (S) / Unsatisfactory (US)	Comments	Action to Be Taken	Who
Embankment & Emergency Spillway					
1	Vegetation and ground cover adequate	S			
2	Embankment erosion	US		FILL WITH TOPSOIL/SEED	DPW
3	Animal burrows	US		FILL WITH TOPSOIL/SEED	DPW
4	Unauthorized planting	S			
5	Slope protection or riprap failure	S			
6	Other (Specify)				
Outlet Structure					
1	Type: Reinforced concrete				
	a. Outlet obstructions / trash	S			
	b. Cracked / spalled / undermined concrete	S			

City of Waupun Stormwater Pond Operation, Maintenance, and Management Inspection Checklist

Item	Inspection / Maintenance Item	Satisfactory (S) / Unsatisfactory (US)	Comments	Action to Be Taken	Who
2	Trash Rack.	S			
	a. Debris removal necessary	S			
	b. Corrosion control	S			
3	Riprap failures	S			
4	Slope erosion	S			
5	Pipe(s) condition	S			
6	Endwalls / Headwalls condition	S			
7	Other (specify)				
Permanent Pool					
1	Undesirable vegetative growth	S			
2	Floating or floatable debris removal required	S			
3	Visible oil sheen	S			
4	Shoreline erosion	S			
5	Sediment buildup near inlet	S			

City of Waupun Stormwater Pond Operation, Maintenance, and Management Inspection Checklist

Item	Maintenance Item	Satisfactory (S) / Unsatisfactory (US)	Comments	Action to Be Taken	Who
Inlet Structure					
1	Riprap failures	US		ADD RIP RAP	DPW
2	Slope erosion	US		TOPSOIL / SEED	DPW
3	Pipe(s) condition	S			
4	Endwalls / Headwalls condition	US	FASTENER / BOLT MISSING	ADD BOLT AND	DPW
5	Other (specify)		CHIPPED CONCRETE	CONCRETE	

Additional Comments

Signature of Person Who Conducted the Inspection: Todd Hartnen 5-15-18 (Date)

TODD HARTNEN (Print Name)

City Contact: Mr. Jeff Daane
Director of Public Works
920-324-7918

City of Waupun Stormwater Pond Operation, Maintenance, and Management Inspection Checklist

Stormwater Facility Name Location & Owner:	CITY OWNED POND BETWEEN SHALOR DR. + WASHINGTON AVE	Weather Condition: SUNNY 62°
Inspector(s)	TODD HARTMEN	
Date of Inspection 5-15-18	5-15-18	

Item	Inspection / Maintenance Item	Satisfactory (S) / Unsatisfactory (US)	Comments	Action to Be Taken	Who
Embankment & Emergency Spillway					
1	Vegetation and ground cover adequate	S			
2	Embankment erosion	S			
3	Animal burrows	S			
4	Unauthorized planting	S			
5	Slope protection or riprap failure	S			
6	Other (Specify)				
Outlet Structure					
1	Type: Reinforced concrete				
	a. Outlet obstructions / trash	US	GARBAGE	REMOVE GARBAGE	DPW
	b. Cracked / spalled / undermined concrete	S			

City of Waupun Stormwater Pond Operation, Maintenance, and Management Inspection Checklist

Item	Inspection / Maintenance Item	Satisfactory (S) / Unsatisfactory (US)	Comments	Action to Be Taken	Who
2	Trash Rack.				
	a. Debris removal necessary	S			
	b. Corrosion control	S			
3	Riprap failures	S			
4	Slope erosion	S			
5	Pipe(s) condition	S			
6	Endwalls / Headwalls condition	S			
7	Other (specify)				
Permanent Pool					
1	Undesirable vegetative growth	S			
2	Floating or floatable debris removal required	US	GARBAGE	REMOVE GARBAGE	DPW
3	Visible oil sheen	S			
4	Shoreline erosion	S			
5	Sediment buildup near inlet	S			

City of Waupun Stormwater Pond Operation, Maintenance, and Management Inspection Checklist

Item	Maintenance Item	Satisfactory (S) / Unsatisfactory (US)	Comments	Action to Be Taken	Who
Inlet Structure					
1	Riprap failures	S			
2	Slope erosion	S			
3	Pipe(s) condition	S			
4	Endwalls / Headwalls condition	S			
5	Other (specify)				

Additional Comments

Signature of Person Who Conducted the Inspection: Todd Harmsen 5-15-18 (Date)
TODD HARMSEN (Print Name)

City Contact: Mr. Jeff Daane
Director of Public Works
920-324-7918

City of Waupun Stormwater Pond Operation, Maintenance, and Management Inspection Checklist

Stormwater Facility Name Location & Owner:	CITY OWNED POND SAALOR DR & HWY 26	Weather Condition: SUNNY 62°
Inspector(s)	TODD HARMSON	
Date of Inspection	5-15-18	

Item	Inspection / Maintenance Item	Satisfactory (S) / Unsatisfactory (US)	Comments	Action to Be Taken	Who
Embankment & Emergency Spillway					
1	Vegetation and ground cover adequate	S			
2	Embankment erosion	S			
3	Animal burrows	S			
4	Unauthorized planting	S			
5	Slope protection or riprap failure	S			
6	Other (Specify)				
Outlet Structure					
1	Type: Reinforced concrete	S			
	a. Outlet obstructions / trash	S			
	b. Cracked / spalled / undermined concrete	S			

City of Waupun Stormwater Pond Operation, Maintenance, and Management Inspection Checklist

Item	Inspection / Maintenance Item	Satisfactory (S) / Unsatisfactory (US)	Comments	Action to Be Taken	Who
2	Trash Rack.				
	a. Debris removal necessary	S			
	b. Corrosion control	S			
3	Riprap failures	S			
4	Slope erosion	S			
5	Pipe(s) condition	S			
6	Endwalls / Headwalls condition	S			
7	Other (specify)				
Permanent Pool					
1	Undesirable vegetative growth	S			
2	Floating or floatable debris removal required	S			
3	Visible oil sheen	S			
4	Shoreline erosion	S			
5	Sediment buildup near inlet	S			

City of Waupun Stormwater Pond Operation, Maintenance, and Management Inspection Checklist

Item	Maintenance Item	Satisfactory (S) / Unsatisfactory (US)	Comments	Action to Be Taken	Who
Inlet Structure					
1	Riprap failures	S			
2	Slope erosion	S			
3	Pipe(s) condition	S			
4	Endwalls / Headwalls condition	S			
5	Other (specify)				

Additional Comments

Signature of Person Who Conducted the Inspection: Todd Hartsen 5-15-18 (Date)
TODD HARTSEN (Print Name)

City Contact: Mr. Jeff Daane
Director of Public Works
920-324-7918

City of Waupun Stormwater Pond Operation, Maintenance, and Management Inspection Checklist

Stormwater Facility Name Location & Owner:	CITY POND BY BALL FIELDS (E. S. OF LINCOLN ST)	Weather Condition:
Inspector(s)	TODD HARTMAN	SUNNY 62°
Date of Inspection	5-15-18	

Item	Inspection / Maintenance Item	Satisfactory (S) / Unsatisfactory (US)	Comments	Action to Be Taken	Who
Embankment & Emergency Spillway					
1	Vegetation and ground cover adequate	S			
2	Embankment erosion	S			
3	Animal burrows	S			
4	Unauthorized planting	S			
5	Slope protection or riprap failure	S			
6	Other (Specify)				
Outlet Structure					
1	Type: Reinforced concrete				
	a. Outlet obstructions / trash	S			
	b. Cracked / spalled / undermined concrete	S			

City of Waupun Stormwater Pond Operation, Maintenance, and Management Inspection Checklist

Item	Inspection / Maintenance Item	Satisfactory (S) / Unsatisfactory (US)	Comments	Action to Be Taken	Who
2	Trash Rack.				
	a. Debris removal necessary	US	GARBAGE	PICK UP	DPW
	b. Corrosion control	S			
3	Riprap failures	S			
4	Slope erosion	S			
5	Pipe(s) condition	S			
6	Endwalls / Headwalls condition	S			
7	Other (specify)				
Permanent Pool					
1	Undesirable vegetative growth	S			
2	Floating or floatable debris removal required	S			
3	Visible oil sheen	NONE			
4	Shoreline erosion	S			
5	Sediment buildup near inlet	S			

City of Waupun Stormwater Pond Operation, Maintenance, and Management Inspection Checklist

Item	Maintenance Item	Satisfactory (S) / Unsatisfactory (US)	Comments	Action to Be Taken	Who
Inlet Structure					
1	Riprap failures	S			
2	Slope erosion	S			
3	Pipe(s) condition	S			
4	Endwalls / Headwalls condition	S			
5	Other (specify)				

Additional Comments

Signature of Person Who Conducted the Inspection: _____ 5-15-18 (Date)

TODD HARMSEN (Print Name)

City Contact: Mr. Jeff Daane
Director of Public Works
920-324-7918

City of Waupun Stormwater Pond Operation, Maintenance, and Management Inspection Checklist

Stormwater Facility Name Location & Owner:	CITY OWNED POND HAWTHORN & WINTER AVE	Weather Condition:
Inspector(s)	TODD HARMSEN	SUNNY
Date of Inspection	5-15-18	62°

Item	Inspection / Maintenance Item	Satisfactory (S) / Unsatisfactory (US)	Comments	Action to Be Taken	Who
Embankment & Emergency Spillway					
1	Vegetation and ground cover adequate	S			
2	Embankment erosion	S			
3	Animal burrows	S			
4	Unauthorized planting	S			
5	Slope protection or riprap failure	S			
6	Other (Specify)				
Outlet Structure					
1	Type: Reinforced concrete				
	a. Outlet obstructions / trash	S			
	b. Cracked / spalled / undermined concrete	S			

City of Waupun Stormwater Pond Operation, Maintenance, and Management Inspection Checklist

Item	Inspection / Maintenance Item	Satisfactory (S) / Unsatisfactory (US)	Comments	Action to Be Taken	Who
2	Trash Rack.				
	a. Debris removal necessary	S			
	b. Corrosion control	S			
3	Riprap failures	S			
4	Slope erosion	S			
5	Pipe(s) condition	S			
6	Endwalls / Headwalls condition	S			
7	Other (specify)				
Permanent Pool					
1	Undesirable vegetative growth	S			
2	Floating or floatable debris removal required	S			
3	Visible oil sheen	S			
4	Shoreline erosion	S			
5	Sediment buildup near inlet	S			

City of Waupun Stormwater Pond Operation, Maintenance, and Management Inspection Checklist

Item	Maintenance Item	Satisfactory (S) / Unsatisfactory (US)	Comments	Action to Be Taken	Who
Inlet Structure					
1	Riprap failures	S			
2	Slope erosion	S			
3	Pipe(s) condition	S			
4	Endwalls / Headwalls condition	S			
5	Other (specify)				

Additional Comments

Signature of Person Who Conducted the Inspection: Todd Harmsen 5-15-18 (Date)
TODD HARMSEN (Print Name)

City Contact: Mr. Jeff Daane
Director of Public Works
920-324-7918

ORDINANCE NUMBER 18-01

AN ORDINANCE TO AMEND CHAPTER TWENTY TWO OF THE MUNICIPAL CODE OF THE CITY OF WAUPUN ENTITLED "STORMWATER MANAGEMENT ORDINANCE."

THE COMMON COUNCIL OF THE CITY OF WAUPUN, DO ORDAIN:

SECTION 1: Section 22 of the Waupun Municipal Code entitled "STORMWATER MANAGEMENT ORDINANCE" is repealed and recreated to read as follows:

CHAPTER 22 - STORMWATER MANAGEMENT ORDINANCE (Cr. #05-02)

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22.01 - AUTHORITY .

(1) This ordinance is adopted by the Common Council under the authority granted by §62.234,, Wis. Stats. This ordinance supersedes all provisions of an ordinance previously enacted under §62.23, Wis. Stats., that relate to stormwater management regulations. Except as otherwise specified in §62.234, Wis. Stats., §62.23, Wis. Stats., applies to this ordinance and to any amendments to this ordinance.

(2) The provisions of this ordinance are deemed not to limit any other lawful regulatory powers of the same governing body.

(3) The Common Council hereby designates the Public Works Department to administer and enforce the provisions of this ordinance.

(4) The requirements of this ordinance do not pre-empt more stringent stormwater management requirements that may be imposed by any of the following:
   (a) Wisconsin Department of Natural Resources administrative rules, permits or approvals including those authorized under §§281.16 and 283.33, Wis. Stats.

(b) Targeted nonagricultural performance standards promulgated in rules by the Wisconsin Department of Natural Resources under § NR 151.004, Wis. Adm. Code.
(c) Rules related to State-approved Total Maximum Daily Load (TMDL) standards applicable to the Upper Rock River watershed (HUC 07090001).

22.02 - FINDINGS OF FACT.

The Common Council finds that uncontrolled, post-construction runoff has a significant impact upon water resources and the health, safety and general welfare of the community and diminishes the public enjoyment and use of natural resources. More specifically, uncontrolled, post-construction runoff can negatively impact the Rock River, Horicon Marsh, and other local water resources. In particular, uncontrolled post-construction runoff can:

(1) Degrade physical stream habitat by increasing stream bank erosion, increasing streambed scour, diminishing groundwater recharge, diminishing stream base flows and increasing stream temperature.

(2) Diminish the capacity of streams to support fish, aquatic life, recreational and water supply uses by increasing pollutant loading of sediment, suspended solids, nutrients, heavy metals, bacteria, pathogens and other urban pollutants.

(3) Alter wetland communities by changing wetland hydrology and by increasing pollutant loads.

(4) Reduce the quality of groundwater by increasing pollutant loading.

(5) Threaten public health, safety, property and general welfare by overtaxing storm sewers, drainage ways, and other minor drainage facilities.

(6) Threaten public health, safety, property and general welfare by increasing major flood peaks and volumes.

(7) Undermine floodplain management efforts by increasing the incidence and levels of flooding.

22.03 - PURPOSE AND INTENT .

(1) PURPOSE. The general purpose of this ordinance is to establish long-term, post-construction runoff management requirements that will diminish the threats to public health, safety, welfare and the aquatic environment. Specific purposes are to:
(a) Further the maintenance of safe and healthful conditions.
(b) Prevent and control the adverse effects of stormwater; prevent and control soil erosion; prevent and control water pollution; protect spawning grounds, fish and aquatic life; control building sites, placement of structures and land uses; preserve ground cover and scenic beauty; and promote sound economic growth.
(c) Control exceedance of the safe capacity of existing drainage facilities and receiving water bodies; prevent undue channel erosion; control increases in the scouring and transportation of particulate matter; and prevent conditions that endanger downstream property.
(d) Minimize the amount of pollutants discharged from the separate storm sewer to protect the waters of the state.

(2) INTENT. It is the intent of the Common Council that this ordinance regulates post-construction stormwater discharges to waters of the State. This ordinance may be applied on a site-by-site basis. The Common Council recognizes, however, that the preferred method of achieving the stormwater performance standards set forth in this ordinance is through the preparation and implementation of comprehensive, systems-level stormwater management plans that cover hydrologic units, such as watersheds, on a municipal and regional scale. Such plans may prescribe regional stormwater devices, practices or systems, any of which may be designed to treat runoff from more than one site prior to discharge to waters of the State. Where such plans are in conformance with the location and regional treatment option contained in §22.07(5) of this chapter and have been approved by the Common Council, it is the intent of this ordinance that the approved plan be used to identify post-construction management measures acceptable for the community.

22.04 - APPLICABILITY AND JURISDICTION .

(1) APPLICABILITY.
   (a) Where not otherwise limited by law, this ordinance applies after final stabilization to all sites of land-disturbing construction activity unless the site is otherwise exempt under paragraph (b).
   (b) A site that meets any of the criteria in this paragraph is exempt from the requirements of this ordinance.
      1. A post-construction site with less than ten percent connected imperviousness based on the area of land disturbance, provided the cumulative area of all impervious surfaces is less than one acre. However, the exemption of this paragraph does not include exemption from the protective area standard of this ordinance.
      2. Nonpoint discharges from agricultural facilities and practices.
      3. Underground utility construction such as water, sewer and fiber optic lines. This exemption does not apply to the construction of any above ground structures associated with utility construction.
   (c) Notwithstanding the applicability requirements in paragraph (a), the requirements of this ordinance may be waived for non-one-family or 2-family residential land-disturbing construction activity, of less than 1.0 acre, by the Public Works Department, if the Public Works Department determines that negative stormwater impacts will not result from the proposed development.

(2) JURISDICTION. This ordinance applies to post construction sites within the boundaries and jurisdiction of the City of Waupun, as well as all lands located within the extraterritorial plat approval jurisdiction of the City of Waupun, even if plat approval is not involved.

(3) EXCLUSIONS. This ordinance is not applicable to activities conducted by a State agency, as defined under §227.01(1), Wis. Stats., but also including the office of District Attorney, which is subject to the State plan promulgated or a memorandum of understanding entered into under §281.33(2), Wis. Stats.

22.05 - DEFINITIONS .

(1) PUBLIC WORKS DEPARTMENT means a governmental employee, empowered under §62.234, Wis. Stats., that is designated by the Common Council to administer this ordinance.

(2) AGRICULTURAL FACILITIES AND PRACTICES has the meaning given in §281.16, Wis. Stats.

(3) ATLAS 14 means the National Oceanic and Atmospheric Administration (NOAA) Atlas 14 Precipitation-Frequency Atlas of the United States, Volume 8 (Midwestern States), published in 2013.

(4) AVERAGE ANNUAL RAINFALL means a typical calendar year of precipitation as determined by the Wisconsin Department of Natural Resources for users of models such as WinSLAMM, P8 or equivalent methodology. The average annual rainfall is chosen from a department publication for the location closest to the municipality. In this ordinance, the recorded rainfall at Madison from 3/12/1981 through 12/2/1981 has been selected as the average annual rainfall.

(5) BEST MANAGEMENT PRACTICE or BMP means structural or nonstructural measures, practices, techniques or devices employed to control peak discharge rates, reduce stormwater pollutant loads, and/or reduce surface discharge of runoff volume to waters of the State.

(6) BUSINESS DAY means a day the office of the Public Works Department is routinely and customarily open for business.

(7) CEASE AND DESIST ORDER means a court-issued order to halt land-disturbing construction activity that is being conducted without the required permit.

(8) COMBINED SEWER SYSTEM means a system for conveying both sanitary sewage and stormwater runoff.

(9) DESIGN STORM means a hypothetical discrete rainstorm characterized by a specific duration, temporal distribution, rainfall intensity, return frequency, and total depth of rainfall.

(10) DEVELOPMENT means residential, commercial, industrial or institutional land uses and associated roads.

(11) DIVISION OF LAND means the creation from one parcel of 2 or more parcels or building sites of 2 or fewer acres each in area where such creation occurs at one time or through the successive partition within a 5-year period.

(12) EFFECTIVE INFILTRATION AREA means the area of the infiltration system that is used to infiltrate runoff and does not include the area used for site access, berms or pretreatment.

(13) EROSION means the process by which the land's surface is worn away by the action of wind, water, ice or gravity.

(14) EXCEPTIONAL RESOURCE WATERS means waters listed in § NR 102.11, Wis. Adm. Code.

(15) EXTRATERRITORIAL means the unincorporated area within 3 miles of the corporate limits of a first, second, or third class city, or within 1.5 miles of a fourth class city or village.

(16) FINAL STABILIZATION means that all land-disturbing construction activities at the construction site have been completed and that a uniform, perennial, vegetative cover has been established, with a density of at least 70% of the cover, for the unpaved areas and areas not covered by permanent structures, or employment of equivalent permanent stabilization measures.

(17) FINANCIAL GUARANTEE means a performance bond, maintenance bond, surety bond, irrevocable letter of credit, or similar guarantees submitted to the Public Works Department by the responsible party to assure that requirements of the ordinance are carried out in compliance with the stormwater management plan.

(18) GOVERNING BODY means the City Council.

(19) IMPERVIOUS SURFACE means an area that releases as runoff all or a large portion of the precipitation that falls on it, except for frozen soil. Rooftops, sidewalks, driveways, parking lots (concrete, asphalt, or gravel) and streets are examples of areas that typically are impervious.

(20) IN-FILL AREA means an undeveloped area of land located within existing development.

(21) INFILTRATION means the entry of precipitation or runoff into or through the soil.

(22) INFILTRATION SYSTEM means a BMP such as a basin, trench, rain garden or swale designed specifically to encourage infiltration, but does not include natural infiltration in pervious surfaces such as lawns, redirecting of rooftop downspouts onto lawns or minimal infiltration from practices, such as swales or road side channels designed for conveyance and pollutant removal only.

(23) KARST FEATURE means an area or surficial geologic feature subject to bedrock dissolution so that it is likely to provide a conduit to groundwater, and may include caves, enlarged fractures, mine features, exposed bedrock surfaces, sinkholes, springs, seeps or swallets.

(24) LAND-DISTURBING CONSTRUCTION ACTIVITY means any man-made alteration of the land surface resulting in a change in the topography or existing vegetative or nonvegetative soil cover, that may result in runoff and lead to an increase in soil erosion and movement of sediment into waters of the State. Land-disturbing construction activity includes clearing and grubbing, demolition, excavating, pit trench dewatering, filling and grading activities.

(25) MAINTENANCE AGREEMENT means a legal document that provides for long-term maintenance of stormwater management practices.

(26) MEP or MAXIMUM EXTENT PRACTICABLE means a level of implementing best management practices in order to achieve a performance standard specified in this ordinance which takes into account the best available technology, cost effectiveness and other competing issues such as human safety and welfare, endangered and threatened resources, historic properties and geographic features. MEP allows flexibility in the way to meet the performance standards and may vary based on the performance standard and site conditions.

(27) NEW DEVELOPMENT means development resulting from the conversion of previously undeveloped land or agricultural land uses.

(28) NRCS MSE3 DISTRIBUTION means a specific precipitation distribution developed by the United States Department of Agriculture, Natural Resources Conservation Service, using precipitation data from Atlas 14.

(29) OFF-SITE means located outside the property boundary described in the permit application.

(30) ON-SITE means located within the property boundary described in the permit application.

(31) OUTSTANDING RESOURCE WATERS means waters listed in § NR 102.10, Wis. Adm. Code.

(32) PERFORMANCE STANDARD means a narrative or measurable number specifying the minimum acceptable outcome for a facility or practice.

(33) PERMIT means a written authorization made by the Public Works Department to the applicant to conduct land-disturbing construction activity or to discharge post-construction runoff to waters of the State.

(34) PERMIT ADMINISTRATION FEE means a sum of money paid to the Public Works Department by the permit applicant for the purpose of recouping the expenses incurred by the authority in administering the permit.

(35) PERVIOUS SURFACE means an area that releases as runoff a small portion of the precipitation that falls on it. Lawns, gardens, parks, forests or other similar vegetated areas are examples of surfaces that typically are pervious.

(36) POLLUTANT has the meaning given in §283.01(13), Wis. Stats.

(37) POLLUTION has the meaning given in §281.01(10), Wis. Stats.

(38) POST-CONSTRUCTION SITE means a construction site following the completion of land-disturbing construction activity and final site stabilization.

(39) PREDEVELOPMENT CONDITION means the extent and distribution of land cover types present before the initiation of land-disturbing construction activity, assuming that all land uses prior to development activity are managed in an environmentally sound manner.

(40) REDEVELOPMENT means areas where development is replacing older development.

(41) RESPONSIBLE PARTY means any entity holding fee title to the property or other person contracted or obligated by other agreement to implement and maintain post-construction stormwater BMPs.

(42) RUNOFF means stormwater or precipitation including rain, snow or ice melt or similar water that moves on the land surface via sheet or channelized flow.

(43) STOP WORK ORDER means an order issued by the Public Works Department which requires that all construction activity on the site be stopped.

(44) STORMWATER MANAGEMENT PLAN means a comprehensive plan designed to reduce the discharge of pollutants from stormwater after the site has under gone final stabilization following completion of the construction activity.

(45) STORMWATER MANAGEMENT SYSTEM PLAN is a comprehensive plan designed to reduce the discharge of runoff and pollutants from hydrologic units on a regional or municipal scale.

(46) TOP OF THE CHANNEL means an edge, or point on the landscape, landward from the ordinary high water mark as defined in § NR115.03(6) Wisconsin Administrative Code of a surface water of the State, where the slope of the land begins to be less than 12% continually for at least 50 feet. If the slope of the land is 12% or less continually for the initial 50 feet, landward from the ordinary high water mark, the top of the channel is the ordinary high water mark.

(47) TOTAL MAXIMUM DAILY LOAD (TMDL) means the amount of pollutants specified as a function of one or more water quality parameters, that can be discharged per day into a water quality limited segment and still ensure attainment of the applicable water quality standard.

(48) TOTAL PHOSPHORUS (TP) is the sum of particulate and dissolved phosphorus and includes the total amount of phosphorus in both organic and inorganic forms.

(49) TOTAL SUSPENDED SOLIDS (TSS) means all particles suspended in stormwater runoff which will not pass through a filter.

(50) TR-55 means the United States Department of Agriculture, Natural Resources Conservation Service (previously Soil Conservation Service), Urban Hydrology for Small Watersheds, Second Edition, Technical Release 55, June 1986.

(51) WATERS OF THE STATE has the meaning given in §281.01(18), Wis. Stats.

22.06 - TECHNICAL STANDARDS .

The following methods shall be used in designing the water quality, peak flow control and infiltration components of stormwater practices needed to meet the stormwater management standards of this ordinance. Application of any specific design guidance within technical standards is subject to the approval of the Director of Public Works.

(1) Technical standards identified, developed or disseminated by the Wisconsin Department of Natural Resources under subch. V of Ch. NR 151, Wis. Adm. Code.

(2) Where technical standards have not been identified or developed by the Wisconsin Department of Natural Resources, other technical standards may be used provided that the methods have been approved by the Public Works Department.

22.07 - PERFORMANCE STANDARDS .

(1) RESPONSIBLE PARTY. The responsible party shall implement a post-construction stormwater management plan that incorporates the requirements of this section.

(2) PLAN. A written stormwater management plan in accordance with §22.09 shall be developed and implemented for each post-construction site.

(3) MAINTENANCE OF EFFORT. For redevelopment sites where the redevelopment will be replacing older development that was subject to post-construction performance standards of NR 151 in effect on or after October 1, 2004, the responsible party shall meet the Total Suspended Solids and Total Phosphorus reductions, peak flow control, infiltration, and protective areas standards applicable to the older development or meet the redevelopment standards of this ordinance, whichever is more stringent.

(4) APPLICABILITY OF MAXIMUM EXTENT PRACTICABLE (MEP). Maximum extent practicable applies when a person who is subject to a performance standard of this ordinance demonstrates to the Director of Public Works' satisfaction that a performance standard is not achievable and that a lower level of performance is appropriate. In making the assertion that a performance standard is not achievable and that a level of performance different from the performance standard is the maximum extent practicable, the responsible party shall take into account the best available technology, cost effectiveness, geographic features, and other competing interests such as protection of public safety and welfare, protection of endangered and threatened resources, and preservation of historic properties.

(5) REQUIREMENTS. The plan required under sub. (2) shall include the following:

(a) Total Suspended Solids and Total Phosphorus . BMPs shall be designed, installed and maintained to control total suspended solids carried in runoff from the post-construction site as follows:

1. For new development, by design, reduce to the maximum extent practicable, the Total Suspended Solids load by 80%, based on the average annual rainfall, as compared to no runoff management controls or to the minimum requirements of the TMDL referenced in Section 22.01(4)(c), whichever is greater.
2. For redevelopment, by design, reduce to the maximum extent practicable, the Total Suspended Solids load by 40%, based on the average annual rainfall, as compared to no runoff management controls or to the minimum requirements of the TMDL referenced in Section 22.01(4)(c), whichever is greater.
3. For in-fill development that occurs by design, reduce to the maximum extent practicable, the Total Suspended Solids load by 80%, based on an average annual rainfall, as compared to no runoff management controls or to the minimum requirements of the TMDL referenced in Section 22.01(4)(c), whichever is greater.

4. For all developments, by design, reduce to the maximum extent practicable, the Total Phosphorus loads to the minimum requirements of the TMDL referenced in Section 22.01(4)(c).
5. Notwithstanding subds. 1. to 4., if the design cannot achieve the applicable Total Suspended Solids or Total Phosphorus reduction specified, the stormwater management plan shall include a written and site-specific explanation why that level of reduction is not attained and the total suspended solids load shall be reduced to the MEP.
6. When designing BMP's runoff draining to the BMP from offsite shall be taken into account in determining the treatment efficiency of the practice. Any impact on the efficiency shall be compensated for by increasing the size of the BMP accordingly.

(b) Peak Discharge .

1. By design, BMPs shall be employed to maintain or reduce the peak runoff discharge rates, to the maximum extent practicable, as compared to predevelopment conditions for the 1-, 2-, 10-year, 24-hour; and 100-year, 24-hour design storms applicable to the post-construction site.
2. Peak discharges shall be calculated using TR-55 runoff curve number methodology, Atlas 14 precipitation depths, and the NRCS MSE3 precipitation distribution. Rainfall depths by recurrence interval for a 24-hour duration are given in Table 1, below. Regardless of the fact that the MSE3 distribution and rainfall data presented in Table 1 are specific to Dodge County, the use of the MSE3 distribution and rainfall data identified in Table 1 shall be used for all sites subject to the applicability of this ordinance.

Table 1 . 24-Hour Rainfall Depths*				
Precipitation Publication	1-Year	2-Year	10-Year	100-Year
Atlas 14 (standard method)	2.38"	2.68"	3.81"	6.24"

3. The runoff curve numbers in Table 2 below shall be used to represent pre-development conditions for land uses listed. For land uses not listed, predevelopment conditions shall assume "good hydrologic conditions" for appropriate land covers as identified in TR-55 or an equivalent methodology. The definitions of "hydrologic soil group" and "runoff curve number" are as given in TR-55.

Table 2. Maximum Pre-Development Runoff Curve Numbers				
	Hydrologic Soil Group			
	A	B	C	D
RCN for Woodland	30	55	70	77
RCN for Grassland	39	61	71	78
RCN for Cropland	55	69	78	83

4. This subsection of the ordinance does not apply to any of the following:
   a. An in-fill development area less than one acre.

(c) Infiltration.

1. BMPs shall be designed, installed, and maintained to infiltrate runoff in accordance with the following or to the maximum extent practicable.
   a. Low imperviousness. For development up to 40 percent connected imperviousness, such as parks, cemeteries, and low density residential development, infiltrate sufficient runoff volume so that the post-development infiltration volume shall be at least 90 percent of the predevelopment infiltration volume, based on an average annual rainfall. However, when designing appropriate infiltration systems to meet this requirement, no more than one percent of the post-construction site is required as an effective infiltration area.
   b. Moderate imperviousness. For development with more than 40 percent and up to 80 percent connected imperviousness, such as medium and high density residential multi-family development, industrial and institutional development, and office parks, infiltrate sufficient runoff volume so that the post-development infiltration volume shall be at least 75 percent of the pre-development infiltration volume, based on an average annual rainfall. However, when designing appropriate infiltration systems to meet this requirement, no more than two (2) percent of the post-construction site is required as an effective infiltration area.
   c. High imperviousness. For development with more than 80 percent connected imperviousness, such as commercial strip malls, shopping centers, and commercial downtowns, infiltrate sufficient runoff volume so that the post-development infiltration volume shall be at least 60 percent of the pre-development infiltration volume, based on an average annual rainfall. However, when designing appropriate infiltration systems to meet this requirement, no more than two (2) percent of the post-construction site is required as an effective infiltration area.
2. Predevelopment condition shall be the same as in subpar. 22.07(3)(b)(3).
3. Prohibited Source Areas. Runoff from the following areas may not be infiltrated and may not be credited toward meeting the requirements of this paragraph unless demonstrated to meet the conditions identified in subpar. 22.07(3)(c)(10).
   a. Runoff from storage, loading, and parking areas associated with Tier 1 industrial facilities identified in Wis. Adm. Code § NR 216.21(2)(a) is prohibited. Runoff from Tier 1 rooftop areas may be infiltrated with the concurrence of the regulatory authority.
   b. Runoff from storage and loading areas of Tier 2 industrial facilities identified in Wis. Adm. Code § NR 216.21(2)(b) is prohibited. Runoff from Tier 2 employee/guest parking may be infiltrated but may require pretreatment. Runoff from Tier 2 rooftop areas may be infiltrated.
   c. Runoff from fueling and vehicle maintenance areas is prohibited. Runoff from rooftops within, over or associated with fueling and vehicle maintenance areas may be infiltrated with the concurrence of the regulatory authority.

4. Exempt Source Areas. Runoff from the following areas may be credited toward meeting the requirement when infiltrated, but the decision to infiltrate runoff from these source areas is optional:
   a. Parking areas and access roads less than 5,000 square feet for commercial development. Areas where the infiltration rate of the soil is less than 0.6 inches/hour measured at the site.
   b. Parking areas and access roads less than 5,000 square feet for industrial development, not subject to the prohibitions in subpar. 3 above.
   c. Except as provided in sub. 22.07(3), a redevelopment post-construction site.
   d. In-fill development areas less than five acres.
   e. Roads in commercial, industrial and institutional land uses, and arterial residential roads.
5. Prohibited Location of Practices. Infiltration practices may not be located in the following areas:
   a. Areas within 1,000 feet upgradient or within 100 feet downgradient of direct conduits to groundwater.
   b. Areas within 400 feet of a community water system well as specified in Wis. Adm. Code § NR 811.16(4), or within the separation distances of a private well as specified in Wis. Adm. Code § NR 812.08 for any private well or non-community well for runoff infiltrated from commercial, including multi-family residential, industrial and institutional land uses or regional devices for one- and two-family residential development.
   c. Areas where contaminants of concern, as defined in Wis. Adm. Code § NR 720.03(2) are present in the soil through which infiltration will occur.
6. Separation Distance to Infiltration Practices. Infiltration practices shall be located so that the characteristics of the soil and the separation distance between the bottom of the infiltration system and the elevation of seasonal high groundwater or the top of bedrock are in accordance with Table 3, below.

Table 3. Separation Distances and Soil Characteristics.

Source Area	Separation Distance	Soil Characteristics
Industrial, Commercial, Institutional Parking Lots and Roads	5 feet or more	Filtering Layer
Residential Arterial Roads	5 feet or more	Filtering Layer
Roofs Draining to Subsurface Infiltration	1 foot or more	Native or Engineered Soil with Particles Finer than Coarse Sand
Roofs Draining to Surface Infiltration	Not Applicable	Not Applicable

All Other Impervious Source Areas	3 feet or more	Filtering Layer

7. Injection wells. Notwithstanding subpar. 6, above, applicable requirements for injection wells classified under Wis. Adm. Code § NR 815 shall be followed.
8. Infiltration Rate Exemptions. Infiltration practices located in the following areas may be credited toward meeting the requirements under the following conditions, but the decision to infiltrate under these conditions is optional.
   a. Where the infiltration rate of the soil measured at the proposed bottom of the infiltration system is less than 0.6 inches per hour using a scientifically credible field test method.
   b. Where the least permeable soil horizon to five (5) feet below the proposed bottom of the infiltration system using the U.S. Department of Agriculture method of soils analysis is one of the following: sandy clay loam, clay loam, silty clay loam, sandy clay, silty clay, or clay.
9. Alternate Uses. Where alternate uses of runoff are employed, such as for toilet flushing, laundry, irrigation, or storage on green roofs where an equivalent portion of the runoff is captured permanently by rooftop vegetation, such as alternate use shall be given equal credit toward the infiltration volume required by subpar. 22.07(3)(c)1.
10. Groundwater Standards.
   a. Infiltration systems designed in accordance with this paragraph shall, to the extent technically and economically feasible, minimize the level of pollutants infiltrating to groundwater and shall maintain compliance with the preventive action limit at a point of standards application in accordance with Wis. Adm. Code § NR 140. However, if site specific information indicates that compliance with a preventive action limit is not achievable, the infiltration BMP may not be installed or shall be modified to prevent infiltration to the maximum extent practicable.
   b. Notwithstanding sub-subpar a. above, the discharge from BMPs shall remain below the enforcement standard at the point of standards application.
11. Pretreatment. Before infiltrating runoff, pretreatment shall be required for parking lot runoff and for runoff from new road construction in commercial, industrial and institutional areas that will enter an infiltration system. The pretreatment shall be designed to protect the infiltration system from clogging prior to the scheduled maintenance and to protect groundwater quality in accordance with subpar. 10. Pretreatment options may include, but are not limited to, oil/grease separation, sedimentation, biofiltration, filtration, swales or filter strips.
12. Maximum Extent Practicable. Where the conditions of subpars. 3. through 8. limit or restrict the use of infiltration practices, the performance standard of paragraph 22.07 (3) shall be met to the maximum extent practicable.

(d) Protective Areas.

1. "Protective area" means an area of land that commences at the top of the channel of lakes, streams and rivers, or at the delineated boundary of wetlands, and that is the greatest of the following widths, as measured horizontally from the top of the channel or delineated wetland boundary to the

closest impervious surface. However, in this paragraph, "protective area" does not include any area of land adjacent to any stream enclosed within a pipe or culvert, such that runoff cannot enter the enclosure at this location.

a. For outstanding resource waters and exceptional resource waters, 75 feet.
b. For perennial and intermittent streams identified on a United States geological survey 7.5-minute series topographic map, or a county soil survey map, whichever is more current, 50 feet.
c. For lakes, 50 feet.
d. For wetlands not subject to subd. 1 e. or f., 50 feet
e. For highly susceptible wetlands, 75 feet. Highly susceptible wetlands include the following types: calcareous fens, sedge meadows, open and coniferous bogs, low prairies, coniferous swamps, lowland hardwood swamps, and ephemeral ponds.
f. For less susceptible wetlands, 10% of the average wetland width, but no less than 10 feet nor more than 30 feet. Less susceptible wetlands include degraded wetlands dominated by invasive species such as reed canary grass; cultivated hydric soils; and any gravel pits, or dredged material or fill material disposal sites that take on the attributes of a wetland.
g. In subd. 1.d., e., and f., determinations of the extent of the protective area adjacent to wetlands shall be made on the basis of the sensitivity and runoff susceptibility of the wetland in accordance with the standards and criteria in § NR 103.03, Wis. Adm. Code.
h. Wetland boundary delineations shall be made in accordance with Wis. Adm. Code § NR 103.08 (1m). This paragraph does not apply to wetlands that have been completely filled in accordance with all applicable state and federal regulations. The protective area for wetlands that have been partially filled in accordance with all applicable state and federal regulations shall be measured from the wetland boundary delineation after fill has been placed. Where there is a legally authorized wetland fill, the protective area standard need not be met in that location.
i. For concentrated flow channels with drainage areas greater than 130 acres, 10 feet.
j. Notwithstanding sub-subpars. a. through i., the greatest protective area width shall apply where rivers, streams, lakes and wetlands are contiguous.

2. Applicability. This paragraph applies to post-construction sites located within a protective area, except those areas exempted pursuant to subd. 4.
3. The following requirements shall be met:
   a. Impervious surfaces shall be kept out of the protective area entirely or to the maximum extent practicable. If there is no practical alternative to locating an impervious surface in the protective area, the stormwater management plan shall contain a written site-specific explanation.
   b. Where land-disturbing construction activity occurs within a protective area, and where no impervious surface is present, adequate sod or self-sustaining vegetative cover of 70% or greater shall be established and maintained where no impervious surface is present. The adequate sod

or self-sustaining vegetative cover shall be sufficient to provide for bank stability, maintenance of fish habitat and filtering of pollutants from upslope overland flow areas under sheet flow conditions. Nonvegetative materials, such as rock riprap, may be employed on the bank as necessary to prevent erosion, such as on steep slopes or where high velocity flows occur.

c. Best management practices such as filter strips, swales, or wet detention basins that are designed to control pollutants from nonpoint sources may be located in the protective area.

Note to Users: Other regulations, such as Ch. 30, Wis. Stats., and Chs. NR 103, 115, 116 and 117, Wis. Adm. Code, and their associated review and approval process may apply in the protective area.

4. This paragraph does not apply to:
   a. Except as provided in sub. 22.07(3), redevelopment post-construction sites.
   b. In-fill development areas less than 5 acres.
   c. Structures that cross or access surface waters such as boat landings, bridges and culverts.
   d. Structures constructed in accordance with §59.692(1v), Wis. Stats.
   e. Areas of post-construction sites from which runoff does not enter the surface water, including wetlands, without first being treated by a BMP to meet the requirements of this ordinance for Total Suspended Solids, Total Phosphorus, and peak flow reduction, except to the extent that vegetative ground cover is necessary to maintain bank stability.

(e) Fueling and Vehicle Maintenance Areas. Fueling and vehicle maintenance areas shall have BMPs designed, installed and maintained to reduce petroleum within runoff, so that the runoff that enters waters of the State contains no visible petroleum sheen, or to the maximum extent practicable.

Note to Users: A combination of the following BMPs may be used: oil and grease separators, canopies, petroleum spill cleanup materials, or any other structural or nonstructural method of preventing or treating petroleum in runoff.

(6) GENERAL CONSIDERATIONS FOR ON-SITE AND OFF-SITE STORMWATER MANAGEMENT MEASURES. The following considerations shall be observed in managing runoff:

(a) Natural topography and land cover features such as natural swales, natural depressions, native soil infiltrating capacity, and natural groundwater recharge areas shall be preserved and used, to the extent possible, to meet the requirements of this section.

(b) Emergency overland flow for all stormwater facilities shall be provided to prevent exceeding the safe capacity of downstream drainage facilities and prevent endangerment of downstream property or public safety.

(7) REGIONAL TREATMENT (OFF-SITE) OPTION.

(a) To comply with the performance standards required under Section 22.07 of this ordinance, the BMPs may be located on-site or off-site as part of a regional stormwater device, practice or system, but shall be installed in accordance with S. NR 151.003, Wis. Adm. Code.

(b) The Public Works Department may approve off-site management measures provided that all of the following conditions are met:

1. The Public Works Department determines that the post-construction runoff is covered by a stormwater management system plan that is approved by the City of Waupun and that contains management requirements consistent with the purpose and intent of this ordinance.
2. The off-site facility meets all of the following conditions:
   a. The facility is in place.
   b. The facility is designed and adequately sized to provide a level of stormwater control equal to or greater than that which would be afforded by on-site practices meeting the performance standards of this ordinance.
   c. The facility has a legally obligated entity responsible for its long-term operation and maintenance.

(c) Where a regional treatment option exists such that the Public Works Department exempts the applicant from all or part of the minimum on-site stormwater management requirements, the applicant shall be required to pay a fee in an amount determined by the Public Works Department. In determining the fee for post-construction runoff, the Public Works Department shall consider an equitable distribution of the cost for land, engineering design, construction, and maintenance of the regional treatment option.

(8) ALTERNATE REQUIREMENTS. The Public Works Department may establish stormwater management requirements more stringent than those set forth in this section if the Public Works Department determines that an added level of protection is needed to protect sensitive resources, or to avoid property damage, or nuisance conditions.

22.08 - PERMITTING REQUIREMENTS, PROCEDURES AND FEES .

(1) PERMIT REQUIRED. No responsible party may undertake a land-disturbing construction activity without receiving a post-construction runoff permit from the Public Works Department prior to commencing the proposed activity.

(2) PERMIT APPLICATION AND FEES. Unless specifically excluded by this ordinance, any responsible party desiring a permit shall submit to the Public Works Department a permit application made on a form provided by the Public Works Department for that purpose.

(a) Unless otherwise excepted by this ordinance, a permit application must be accompanied by a stormwater management plan, a maintenance agreement and a nonrefundable permit administration fee.

(b) The stormwater management plan shall be prepared to meet the requirements of §§22.07 and 22.09, the maintenance agreement shall be prepared to meet the requirements of §22.10, the financial guarantee shall meet the requirements of §22.11, and fees shall be those established by the Common Council as set forth §in 22.12.

(3) REVIEW AND APPROVAL OF PERMIT APPLICATION. The Public Works Department shall review any permit application that is submitted with a stormwater management plan, maintenance agreement, and the required fee. The following approval procedure shall be used:

(a) Within 15 business days of the receipt of a complete permit application, including all items as required by sub. (2), the Public Works Department shall inform the

applicant whether the application, plan and maintenance agreement are approved or disapproved based on the requirements of this ordinance.

(b) If the stormwater permit application, plan and maintenance agreement are approved, or if an agreed upon payment of fees in lieu of stormwater management practices is made, the Public Works Department shall issue the permit.

(c) If the stormwater permit application, plan or maintenance agreement is disapproved, the Public Works Department shall detail in writing the reasons for disapproval.

(d) The Public Works Department may request additional information from the applicant. If additional information is submitted, the Public Works Department shall have 15 business days from the date the additional information is received to inform the applicant that the plan and maintenance agreement are either approved or disapproved.

(4) PERMIT REQUIREMENTS. All permits issued under this ordinance shall be subject to the following conditions, and holders of permits issued under this ordinance shall be deemed to have accepted these conditions. The Public Works Department may suspend or revoke a permit for violation of a permit condition, following written notification of the responsible party. An action by the Public Works Department to suspend or revoke this permit may be appealed in accordance with §22.14.

(a) Compliance with this permit does not relieve the responsible party of the responsibility to comply with other applicable Federal, State, and local laws and regulations.

(b) The responsible party shall design and install all structural and nonstructural stormwater management measures in accordance with the approved stormwater management plan and this permit.

(c) The responsible party shall notify the Public Works Department at least 5 business days before commencing any work in conjunction with the stormwater management plan, and within 5 business days upon completion of the stormwater management practices. If required as a special condition under sub. (5), the responsible party shall make additional notification according to a schedule set forth by the Public Works Department so that practice installations can be inspected during construction.

(d) Practice installations required as part of this ordinance shall be certified "as built" by a licensed professional engineer. Completed stormwater management practices must pass a final inspection by the Public Works Department or its designee to determine if they are in accordance with the approved stormwater management plan and ordinance. The Public Works Department or its designee shall notify the responsible party in writing of any changes required in such practices to bring them into compliance with the conditions of this permit.

(e) The responsible party shall notify the Public Works Department of any significant modifications it intends to make to an approved stormwater management plan. The Public Works Department may require that the proposed modifications be submitted to it for approval prior to incorporation into the stormwater management plan and execution by the responsible party.

(f) The responsible party shall maintain all stormwater management practices in accordance with the stormwater management plan until the practices either become the responsibility of the City, or are transferred to subsequent private owners as specified in the approved maintenance agreement.

(g) The responsible party authorizes the Public Works Department to perform any work or operations necessary to bring stormwater management measures into

conformance with the approved stormwater management plan, and consents to a special assessment or charge against the property as authorized under subch. VII of Ch. 66, Wis. Stats., or to charging such costs against the financial guarantee posted under §22.11.

(h) If so directed by the Public Works Department, the responsible party shall repair at the responsible party's own expense all damage to adjoining municipal facilities and drainage ways caused by runoff, where such damage is caused by activities that are not in compliance with the approved stormwater management plan.

(i) The responsible party shall permit property access to the Public Works Department or its designee for the purpose of inspecting the property for compliance with the approved stormwater management plan and this permit.

(j) Where site development or redevelopment involves changes in direction, increases in peak rate and/or total volume of runoff from a site, the Public Works Department may require the responsible party to make appropriate legal arrangements with affected property owners concerning the prevention of endangerment to property or public safety.

(k) The responsible party is subject to the enforcement actions and penalties detailed in §22.13, if the responsible party fails to comply with the terms of this permit.

(5) PERMIT CONDITIONS. Permits issued under this subsection may include conditions established by Public Works Department in addition to the requirements needed to meet the performance standards in §22.07 or a financial guarantee as provided for in §22.11.

(6) PERMIT DURATION. Permits issued under this section shall be valid from the date of issuance through the date the Public Works Department notifies the responsible party that all stormwater management practices have passed the final inspection required under sub. (4)(d).

22.09 - STORMWATER MANAGEMENT PLAN.

(1) PLAN REQUIREMENTS. The stormwater management plan required under §22.08(2) shall contain at a minimum the information required on the City of Waupun Stormwater Management Submittal Form for Compliance with City Ordinance 05-02. This form will be provided by the City upon request.

(2) ALTERNATE REQUIREMENTS. The Public Works Department may prescribe alternative submittal requirements for applicants seeking an exemption to on-site stormwater management performance standards under §22.07(5).

22.10 - MAINTENANCE AGREEMENT .

(1) MAINTENANCE AGREEMENT REQUIRED. The maintenance agreement required under §22.08(2) for stormwater management practices shall be an agreement between the Public Works Department and the responsible party to provide for maintenance of stormwater practices beyond the duration period of this permit. The maintenance agreement shall be filed with the County Register of Deeds as a property deed restriction so that it is binding upon all subsequent owners of the land served by the stormwater management practices.

(2) AGREEMENT PROVISIONS. (Am. #10-14) The City shall provide the maintenance agreement form. The maintenance agreement shall contain the following information and provisions and be consistent with the maintenance plan required by Section 22.09:

(a) Identification of the stormwater facilities and designation of the drainage area served by the facilities.

(b) A schedule for regular maintenance of each aspect of the stormwater management system consistent with the stormwater management plan required under Section 22.08(2)(b).

(c) Identification of the responsible party(s), which must specifically name an entity such as the property owner, a homeowner's association, a condominium association, the City, etc., responsible for long-term maintenance of the stormwater management practices identified in the stormwater management plan required under Section 22.08(2)(b).

(d) Requirement that the responsible party(s) shall maintain stormwater management practices in accordance with the schedule included in paragraph (b).

(e) Authorization for the Director of Public Works to access the property to conduct inspections of stormwater management practices as necessary to ascertain that the practices are being maintained and operated in accordance with the agreement.

(f) A requirement of the Director of Public Works to maintain public records of the results of the site inspections, to inform the responsible party responsible for maintenance of the inspection results, and to specifically indicate any corrective actions required to bring the stormwater management practice into proper working condition.

(g) Agreement that the party designated under paragraph(c), as responsible for long term maintenance of the stormwater management practices, shall be notified by the Director of Public Works of maintenance problems which require correction. The specified corrective actions shall be undertaken within a reasonable time frame as set by the Director of Public Works.

(h) Authorization of the Director of Public Works to perform the corrected actions identified in the inspection report if the responsible party designated under paragraph (c) does not make the required corrections in the specified time period. The Director of Public Works shall enter the amount due on the tax rolls and collect the money as a special charge against the property pursuant to Wis. Stats. Subch., VII of Ch. 66.

22.11 - FINANCIAL GUARANTEE .

(1) ESTABLISHMENT OF THE GUARANTEE. The City of Waupun may require the submittal of a financial guarantee, the form and type of which shall be acceptable to the City of Waupun. The financial guarantee shall be in an amount determined by the Public Works Department to be the estimated cost of construction and the estimated cost of maintenance of the stormwater management practices during the period which the designated party in the maintenance agreement has maintenance responsibility. The financial guarantee shall give the City of Waupun the authorization to use the funds to complete the stormwater management practices if the responsible party defaults or does not properly implement the approved stormwater management plan, upon written notice to the responsible party by the Public Works Department that the requirements of this ordinance have not been met.

(2) CONDITIONS FOR RELEASE. Conditions for the release of the financial guarantee are as follows:

(a) The City of Waupun shall release the portion of the financial guarantee established under this section, less any costs incurred by the City of Waupun to complete installation of practices, upon submission of "as built plans" by a licensed professional engineer. The City of Waupun may make provisions for a partial pro rata release of the financial guarantee based on the completion of various development stages.

(b) The City of Waupun shall release the portion of the financial guarantee established under this section to assure maintenance of stormwater practices, less any costs incurred by the City of Waupun, at such time that the responsibility for practice maintenance is passed on to another entity via an approved maintenance agreement.

22.12 - FEE SCHEDULE .

The fees referred to in other sections of this ordinance shall be established by the Public Works Department and may from time to time be modified by resolution. A schedule of the fees established by the Public Works Department shall be available for review in the City of Waupun's City Clerk's office.

22.13 - ENFORCEMENT .

(1) Any land-disturbing construction activity or post-construction runoff initiated after the effective date of this ordinance by any person, firm, association, or corporation subject to the ordinance provisions shall be deemed a violation unless conducted in accordance with the requirements of this ordinance.

(2) The Director of Public Works or designee shall notify the responsible party by certified mail, signed receipt required, of any noncomplying land-disturbing construction activity or post-construction runoff. The notice shall describe the nature of the violation, remedial actions needed, a schedule for remedial action, and additional enforcement action which may be taken.

(3) Upon receipt of written notification from the Director of Public Works or designee under sub. (2), the responsible party shall correct work that does not comply with the stormwater management plan or other provisions of this permit. The responsible party shall make corrections as necessary to meet the specifications and schedule set forth in the notice.

(4) If the violations to a permit issued pursuant to this ordinance are likely to result in damage to properties, public facilities, or waters of the State, the Director of Public Works or designee may enter the land and take emergency actions necessary to prevent such damage. The costs incurred by the City of Waupun plus interest and legal costs shall be billed to the permit holder. Cost may also be recouped using the approach described in §22.13(11).

(5) The Director of Public Works or designee is authorized to post a stop work order on all land-disturbing construction activity that is in violation of this ordinance, or to request the municipal attorney to obtain a cease and desist order in any court with jurisdiction.

(6) The Director of Public Works or designee may revoke a permit issued under this ordinance for noncompliance with ordinance provisions.

(7) Any permit revocation, stop work order, or cease and desist order shall remain in effect unless retracted by the Director of Public Works or designee or by a court with jurisdiction.

(8) The Director of Public Works or designee is authorized to refer any violation of this ordinance, or of a stop work order, or cease and desist order issued pursuant to this ordinance, to the municipal attorney, corporation counsel for the commencement of further legal proceedings in any court with jurisdiction.

(9) Any person, firm, association, or corporation who does not comply with the provisions of this ordinance shall be subject to a forfeiture of not less than $100.00 or more than $1,000.00 per offense, plus the costs of prosecution. Each day that the violation exists shall constitute a separate offense.

(10) Compliance with the provisions of this ordinance may also be enforced by injunction in any court with jurisdiction. It shall not be necessary to prosecute for forfeiture or a cease and desist order before resorting to injunctional proceedings.

Note to Users: Injunctional orders are authorized pursuant to §59.69(11), 61.35, or 62.23(8), Wis. Stats., for counties, villages and towns with village powers, and cities respectively.

(11) When the Director of Public Works or designee determines that the holder of a permit issued pursuant to this ordinance has failed to follow practices set forth in the stormwater management plan, or has failed to comply with schedules set forth in said stormwater management plan, the Director of Public Works or designee may enter upon the land and perform the work or other operations necessary to bring the condition of said lands into conformance with requirements of the approved plan. The Director of Public Works or designee shall keep a detailed accounting of the costs and expenses of performing this work. If costs are not paid directly by the permit holder, the costs and expenses shall be deducted from any financial security posted pursuant to §22.11 of this ordinance. Where such a security has not been established, or where such a security is insufficient to cover these costs, the costs and expenses shall be entered on the tax roll as a special charge against the property and collected with any other taxes levied thereon for the year in which the work is completed.

22.14 - APPEALS .

(1) BOARD OF APPEALS. The board of appeals created pursuant to §16.16 of the City of Waupun Zoning Code pursuant to §62.23(7)(e), Wis. Stats.:

(a) Shall hear and decide appeals where it is alleged that there is error in any order, decision or determination made by the Public Works Department in administering this ordinance except for cease and desist orders obtained under §22.12(3).

(b) Upon appeal, may authorize variances from the provisions of this ordinance which are not contrary to the public interest and where owing to special conditions a literal enforcement of the provisions of the ordinance will result in unnecessary hardship; and

(c) Shall use the rules, procedures, duties and powers authorized by statute in hearing and deciding appeals and authorizing variances.

(2) WHO MAY APPEAL. Appeals to the board of appeals may be taken by any aggrieved person or by an officer, department, board, or bureau of the City of Waupun affected by any decision of the Director of Public Works or designee.

22.15 - SEVERABILITY .
If any section, clause, provision or portion of this ordinance is judged unconstitutional or invalid by a court of competent jurisdiction, the remainder of the ordinance shall remain in force and not be affected by such judgment.

22.16 - EFFECTIVE DATE .
This ordinance shall be in force and effect from and after its adoption and publication.

Enacted this 8th day of May, 2018

Julie J. Nickel, Mayor

ATTEST:

Angela J. Hull, City Clerk

ORDINANCE NUMBER 18-02

AN ORDINANCE TO AMEND CHAPTER TWENTY THREE OF THE MUNICIPAL CODE OF THE CITY OF WAUPUN ENTITLED "CONSTRUCTION SITE EROSION CONTROL ORDINANCE.

THE COMMON COUNCIL OF THE CITY OF WAUPUN, DO ORDAIN:

SECTION 1: Section 23 of the Waupun Municipal Code entitled "CONSTRUCTION SITE EROSION CONTROL ORDINANCE" is repealed and recreated to read as follows:

CHAPTER 23 - CONSTRUCTION SITE EROSION CONTROL ORDINANCE (Cr. #05-03)

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23.01 - AUTHORITY .

(1) This ordinance is adopted under the authority granted by §62.234, Wis. Stats., for cities. This ordinance supersedes all provisions of an ordinance previously enacted under §62.23, Wis. Stats., that relate to construction site erosion control. Except as otherwise specified in §62.234 Wis. Stats., §62.23, Wis. Stats., applies to this ordinance and to any amendments to this ordinance.

(2) The provisions of this ordinance are deemed not to limit any other lawful regulatory powers of the same governing body.

(3) The Common Council hereby designates the Public Works Department to administer and enforce the provisions of this ordinance.

(4) The requirements of this ordinance do not preempt more stringent erosion and sediment control requirements that may be imposed by any of the following:

(a) Wisconsin Department of Natural Resources administrative rules, permits or approvals including those authorized under §§281.16 and 283.33, Wis. Stats.

(b) Targeted nonagricultural performance standards promulgated in rules by the Wisconsin Department of Natural Resources under § NR 151.004, Wis. Adm. Code

23.02 - FINDINGS OF FACT .

The Common Council finds that runoff from land-disturbing construction activity carries a significant amount of sediment and other pollutants to the waters of the State in City of Waupun. More specifically, uncontrolled, construction runoff can negatively impact the municipal storm sewer system, the Rock River, and Horicon Marsh, which is recognized as a unique resource of national significance.

23.03 - PURPOSE .

It is the purpose of this ordinance to further the maintenance of safe and healthful conditions; prevent and control water pollution; prevent and control soil erosion; protect spawning grounds, fish and aquatic life; control building sites, placement of structures and land uses; preserve ground cover and scenic beauty; and promote sound economic growth, by minimizing the amount of sediment and other pollutants carried by runoff or discharged from land-disturbing construction activity to waters of the State in the City of Waupun.

23.04 - APPLICABILITY AND JURISDICTION.

(1) APPLICABILITY.

(a) This ordinance applies to the all land-disturbing construction activities, unless the site is otherwise exempt under paragraph (b).

(b) This ordinance does not apply to the following:

1. Land-disturbing construction activity that includes the construction of a building and is otherwise regulated by the Wisconsin Department of Safety and Professional Services in chs. SPS 320 to 325 or 361 to 366, Wis. ,Adm. Code.

2. A construction project that is exempted by Federal statutes or regulations from the requirement to have a national pollutant discharge elimination system permit issued under Chapter 40, Code of Federal Regulations, part 122, for land-disturbing construction activity.

3. Nonpoint discharges from agricultural facilities and practices.

4. Nonpoint discharges from silviculture activities.

5. Routine maintenance for project sites under one acre of land disturbance if performed to maintain the original line and grade, hydraulic capacity or original purpose of the facility.

(c) Notwithstanding the applicability requirements in paragraph (a), the requirements of this ordinance may be waived for non-one-family or 2-family residential land disturbing construction activity, of less than 1.0 acre, by the Public Works Department, if the Public Works Department determines that erosion or sediment transport off the site will not result from the proposed land disturbing activity.

(2) JURISDICTION. This ordinance applies to land-disturbing construction activity on construction sites located within the boundaries and jurisdiction of the City of Waupun.

(3) EXCLUSIONS. This ordinance is not applicable to activities conducted by a State agency, as defined under §227.01 (1), Wis. Stats.

23.05 - DEFINITIONS .

(1) ADMINISTERING AUTHORITY means a governmental employee, empowered under §62.234 Wis. Stats., that is designated by the Common Council to administer this ordinance.

(2) AGRICULTURAL FACILITIES AND PRACTICES has the meaning in §281.16(1), Wis. Stats.

(3) BEST MANAGEMENT PRACTICE or BMP means structural or nonstructural measures, practices, techniques or devices employed to avoid or minimize soil, sediment or pollutants carried in runoff to waters of the State.

(4) CEASE AND DESIST ORDER means a court-issued order to halt land-disturbing construction activity that is being conducted without the required permit.

(5) CONSTRUCTION SITE means an area upon which one or more land-disturbing construction activities occur, including areas that are part of a larger common plan of development or sale where multiple separate and distinct land-disturbing construction activities may be taking place at different times on different schedules but under one plan. A long-range planning document that describes separate construction projects, such as a 20-year transportation improvement plan, is not a common plan of development.

(6) DESIGN STORM means a hypothetical discrete rainstorm characterized by a specific duration, temporal distribution, rainfall intensity, return frequency and total depth of rainfall.

(7) DIVISION OF LAND means the creation from one parcel of [2] or more parcels or building sites of [2] or fewer acres each in area where such creation occurs at one time or through the successive partition within a 5-year period.

(8) EROSION means the process by which the land's surface is worn away by the action of wind, water, ice or gravity.

(9) EROSION AND SEDIMENT CONTROL PLAN means a comprehensive plan developed to address pollution caused by erosion and sedimentation of soil particles or rock fragments during construction.

(10) FINAL STABILIZATION means that all land-disturbing construction activities at the construction site have been completed and that a uniform perennial vegetative cover has

been established, with a density of at least 70% of the cover, for the unpaved areas and areas not covered by permanent structures, or that employ equivalent permanent stabilization measures.

(11) GOVERNING BODY means the City Council.

(12) LAND-DISTURBING CONSTRUCTION ACTIVITY means any man-made alteration of the land surface resulting in a change in the topography or existing vegetative or nonvegetative soil cover, that may result in runoff and lead to an increase in soil erosion and movement of sediment into waters of the State. Land-disturbing construction activity includes clearing and grubbing, demolition, excavating, pit trench dewatering, filling and grading activities.

(13) LANDOWNER means any person holding fee title, an easement or other interest in property, which allows the person to undertake cropping, livestock management, and land disturbing construction activity or maintenance of storm water BMPs on the property.

(14) MEP or MAXIMUM EXTENT PRACTICABLE means the highest level of performance that is achievable but is not equivalent to a performance standard identified in this ordinance as determined in accordance with 23.07(3) of this ordinance.

(15) PERFORMANCE STANDARD means a narrative or measurable number specifying the minimum acceptable outcome for a facility or practice.

(16) PERMIT means a written authorization made by the Public Works Department to the applicant to conduct land-disturbing construction activity or to discharge post-construction runoff to waters of the State.

(17) POLLUTANT has the meaning given in §283.01(13), Wis. Stats.

(18) POLLUTION has the meaning given in §281.01(10), Wis. Stats.

(19) RESPONSIBLE PARTY means the landowner or any other entity performing services to meet the requirements of this ordinance through a contract or other agreement.

(20) RUNOFF means stormwater or precipitation including rain, snow or ice melt or similar water that moves on the land surface via sheet or channelized flow.

(21) SEDIMENT means settleable solid material that is transported by runoff, suspended within runoff or deposited by runoff away from its original location.

(22) SILVICULTURE ACTIVITY means activities including tree nursery operations, tree harvesting operations, reforestation, tree thinning, prescribed burning, and pest and fire control. Clearing and grubbing of an area of a construction site is not a silviculture activity.

(23) SITE means the entire area included in the legal description of the land on which the land-disturbing construction activity is proposed in the permit application.

(24) STOP WORK ORDER means an order issued by the Public Works Department Public Works Department which requires that all construction activity on the site be stopped.

(25) TRANSPORTATION FACILITY means a highway, a railroad, a public mass transit facility, a public-use airport, a public trail or any other public work for transportation purposes such as harbor improvements under s. 85.095 (1)(b), Wis. Stats., but does not include building sites for the construction of public buildings and buildings that are places of employment that are regulated by the Department pursuant to s. 281.33, Wis. Stats.

(26) WATERS OF THE STATE includes those portions of Lake Michigan and Lake Superior within the boundaries of this state, and all lakes, bays, rivers, streams, springs, ponds, wells, impounding reservoirs, marshes, watercourses, drainage systems and other surface water or groundwater, natural or artificial, public or private, within this state or its jurisdiction.

23.06 - TECHNICAL STANDARDS .

(1) DESIGN CRITERIA, STANDARDS AND SPECIFICATIONS. All BMPs required to comply with this ordinance shall meet the design criteria, standards and specifications based on the following. Application of any specific design guidance within technical standards is subject to the approval of the Director of Public Works

(a) Design guidance and technical standards identified or developed by the Wisconsin Department of Natural Resources under subch. V of Ch. NR 151, Wis. Adm. Code.

(b) Soil loss prediction tools (such as the Universal Soil Loss Equation (USLE)) when using an appropriate rainfall or runoff factor (also referred to as the R factor) or an appropriate design storm and precipitation distribution, and when considering the geographic location of the site and the period of disturbance.

(2) OTHER STANDARDS. Other technical standards or methods not identified or developed in sub. (1), may be used provided that the technical standards or methods have been approved by the Public Works Department.

23.07 - PERFORMANCE STANDARDS .

(1) RESPONSIBLE PARTY. The responsible party shall implement an erosion and sediment control plan, developed in accordance with §23.09, that incorporates the requirements of this section.

(2) EROSION AND SEDIMENT CONTROL PLAN. A written plan shall be developed in accordance with §23.09 and implemented for each construction site.

(3) APPLICABILITY OF MAXIMUM EXTENT PRACTICABLE (MEP). Maximum extent practicable applies when a person who is subject to a performance standard of this ordinance demonstrates to the Director of Public Works' satisfaction that a performance standard is not achievable and that a lower level of performance is appropriate. In making the assertion that a performance standard is not achievable and that a level of performance different from the performance standard is the maximum extent practicable, the responsible party shall take into account the best available technology, cost effectiveness, geographic features, and other competing interests such as protection of public safety and welfare, protection of endangered and threatened resources, and preservation of historic properties.

(4) EROSION AND OTHER POLLUTANT CONTROL REQUIREMENTS. The erosion and sediment control plan required under subsection (b) shall include the following:

(a) Erosion and sediment control practices. Erosion and sediment control practices at each site where land disturbing construction activity is to occur shall be used to prevent or reduce all of the following:

1. The deposition of soil from being tracked onto streets by vehicles.

2. The discharge of sediment from disturbed areas into on-site storm water inlets.

3. The discharge of sediment from disturbed areas into adjacent waters of the state.

4. The discharge of sediment from drainage ways that flow off the site.

5. The discharge of sediment by dewatering activities.

6. The discharge of sediment eroding from soil stockpiles existing for more than 7 days.

7. The discharge of sediment from erosive flows at outlets and in downstream channels.

8. The transport by runoff into waters of the state of chemicals, cement, and other building compounds and materials on the construction site during the construction period. However, projects that require the placement of these materials in waters of the state, such as constructing bridge footings or BMP installations, are not prohibited by this subdivision.

9. The transport by runoff into waters of the state of untreated wash water from vehicle and wheel washing.

(b) Sediment control performance standards. In addition to the erosion and sediment control practices in paragraph (a), the following erosion and sediment control practices shall be employed:

1. BMPs that, by design, discharge no more than 5 tons per acre per year, or to the maximum extent practicable, of the sediment load carried in runoff from initial grading to final stabilization.

2. No person shall be required to employ more BMPs than are needed to meet a performance standard in order to comply with maximum extent practicable. Erosion and sediment control BMPs may be combined to meet the requirements of this subsection. Credit may be given toward meeting the sediment performance standard of this subsection for limiting the duration or area, or both, of land disturbing construction activity, or other appropriate mechanism.

3. Notwithstanding paragraph 1, if BMPs cannot be designed and implemented to meet the sediment performance standard, the erosion and sediment control plan shall include a written, site-specific explanation of why the sediment performance standard cannot be met and how the sediment load shall be reduced to the maximum extent practicable.

(c) Preventative Measures. The erosion and sediment control plan shall incorporate all of the following:

1. Maintenance of existing vegetation, especially adjacent to surface waters whenever possible.

2. Minimization of soil compaction and preservation of topsoil.

3. Minimization of land disturbing construction activity on slopes of 20 percent or more.

4. Development of spill prevention and response procedures.

(d) LOCATION. The BMPs used to comply with this section shall be located so that treatment occurs prior to runoff entering waters of the State. While regional treatment

facilities are appropriate for control of post-construction pollutants, they should not be used for construction site sediment removal.

(5) IMPLEMENTATION. The BMPs used to comply with this section shall be implemented as follows:

(a) Erosion and sediment control practices shall be constructed or installed before land disturbing construction activities begin in accordance with the erosion and sediment control plan developed in subsection 23.07(2).

(b) Erosion and sediment control practices shall be maintained until final stabilization.

(c) Final stabilization activity shall commence when land disturbing activities cease and final grade has been reached on any portion of the site.

(d) Temporary stabilization activity shall commence when land disturbing activities have temporarily ceased and will not resume for a period exceeding 14 calendar days.

(e) BMPs that are no longer necessary for erosion and sediment control shall be removed by the responsible party.

23.08 - PERMITTING REQUIREMENTS, PROCEDURES AND FEES .

(1) PERMIT REQUIRED. No responsible party may commence a land-disturbing construction activity subject to this ordinance without receiving prior approval of an erosion and sediment control plan for the site and a permit from the Public Works Department.

(2) PERMIT APPLICATION AND FEES. The responsible party that will undertake a land-disturbing construction activity subject to this ordinance shall submit an application for a permit and an erosion and sediment control plan that meets the requirements of §23.09 and shall pay an application fee as authorized under §23.10. By submitting an application, the applicant is authorizing the Public Works Department to enter the site to obtain information required for the review of the erosion and sediment control plan.

(3) REVIEW AND APPROVAL OF PERMIT APPLICATION. The Public Works Department shall review any permit application that is submitted with an erosion and sediment control plan, and the required fee. The following approval procedure shall be used:

(a) Within 10 business days of the receipt of a complete permit application, as required by sub. (2), the Public Works Department shall inform the applicant whether the application and plan are approved or disapproved based on the requirements of this ordinance.

(b) If the permit application and plan are approved, the Public Works Department shall issue the permit.

(c) If the permit application or plan is disapproved, the Public Works Department shall state in writing the reasons for disapproval.

(d) The Public Works Department may request additional information from the applicant. If additional information is submitted, the Public Works Department shall have 10 business days from the date the additional information is received to inform the applicant that the plan is either approved or disapproved.

(4) SURETY BOND. As a condition of approval and issuance of the permit, the Public Works Department may require the applicant to deposit a surety bond or irrevocable letter of credit to guarantee a good faith execution of the approved erosion and sediment control plan and any permit conditions.

(5) PERMIT REQUIREMENTS. All permits shall require the responsible party to:

(a) Notify the Public Works Department within 48 hours before beginning any land-disturbing construction activity.

(b) Notify the Public Works Department of completion of any BMPs within two days after their installation.

(c) Obtain permission in writing from the Public Works Department prior to any modification pursuant to §23.09(2) of the erosion and sediment control plan.

(d) Install all BMPs as identified in the approved erosion and sediment control plan.

(e) Maintain all road drainage systems, stormwater drainage systems, BMPs and other facilities identified in the erosion and sediment control plan.

(f) Repair any siltation or erosion damage to adjoining surfaces and drainage ways resulting from land-disturbing construction activities and document repairs in a site erosion control log.

(g) Inspect the BMPs within 24 hours after each rain of 0.5 inches or more which results in runoff during active construction periods, and at least once each week, make needed repairs and install additional BMPs as necessary and document these activates in an inspection log that includes the date of inspection, the name of the person conducting the inspection, and a description of the present phase of the construction at the site.

(h) Allow the Public Works Department to enter the site for the purpose of inspecting compliance with the erosion and sediment control plan or for performing any work necessary to bring the site into compliance with the erosion and sediment control plan. Keep a copy of the erosion and sediment control plan at the construction site.

(6) PERMIT CONDITIONS. Permits issued under this section may include conditions established by Public Works Department in addition to the requirements set forth in sub. (5), where needed to assure compliance with the performance standards in §23.07.

(7) PERMIT DURATION. Permits issued under this section shall be valid for a period of 180 days, or the length of the building permit or other construction authorizations, whichever is longer, from the date of issuance. The Public Works Department may extend the period one or more times for up to an additional 180 days. The Public Works Department may require additional BMPs as a condition of the extension if they are necessary to meet the requirements of this ordinance.

(8) MAINTENANCE. The responsible party throughout the duration of the construction activities shall maintain all BMPs necessary to meet the requirements of this ordinance until the site has undergone final stabilization.

23.09 - EROSION AND SEDIMENT CONTROL PLAN, STATEMENT, AND AMENDMENTS .

(1) EROSION AND SEDIMENT CONTROL PLAN. The erosion and sediment control plan requirements of this subsection will meet the erosion control plan requirements of s. NR 216.46, Wis. Adm. Code, when prepared in accordance with good engineering practices and the design criteria, standards and specifications published by the Wisconsin Department of Natural Resources under subchapter V of Chapter NR 151, Wis. Adm. Code.

(a) An erosion and sediment control plan shall be prepared and submitted to the Public Works Department.

(b) The erosion and sediment control plan shall be designed to meet the performance standards in §23.07 and other requirements of this ordinance.

(c) The erosion and sediment control plan shall address pollution caused by soil erosion and sedimentation during construction and up to final stabilization of the site. The erosion and sediment control plan shall include, at a minimum, the following items:

1. The name(s) and address(es) of the owner or developer of the site, and of any consulting firm retained by the applicant, together with the name of the applicant's principal contact at such firm. The application shall also include start and end dates for construction.

2. Description of the site and the nature of the construction activity, including representation of the limits of land disturbance on a United States Geological Service 7.5-minute series topographic map, or other map acceptable to the Director of Public Works.

3. A description of the intended sequence of major land disturbing construction activities for major portions of the construction site, including stripping and clearing; rough grading; construction of utilities, infrastructure and buildings; and final grading and landscaping. Sequencing shall identify the expected date on which clearing will begin, the estimated duration of exposure of cleared areas, areas of clearing, installation of temporary erosion and sediment control measures, and establishment of permanent vegetation.

4. Estimates of the total area of the site and the total area of the site expected to be disturbed by land disturbing activities.

5. Estimates, including calculations, if any, of the runoff coefficient of the site before and after construction activities are completed.

6. Calculations to show the compliance with the performance standard in subpar. 23.07(4).

7. Existing data describing the surface soil as well as subsoils.

8. Depth to groundwater, as indicated by Natural Resources Conservation Service soil information where available.

9. Name of the immediate named receiving water from the United States Geological Service 7.5-minute series topographic maps.

(d) The erosion and sediment control plan shall include a site map. The site map shall include the following items and shall be at a scale not greater than 100 feet per inch and at a contour interval not to exceed five feet:

1. Existing topography, vegetative cover, natural and engineered drainage systems, roads and surface waters. Lakes, streams, wetlands, channels, ditches and other watercourses on and immediately adjacent to the site shall

be shown. Any identified 100-year floodplains, flood fringes and floodways shall also be shown.

2. Boundaries of the construction site.

3. Drainage patterns and approximate slopes anticipated after major grading activities.

4. Areas of soil disturbance.

5. Location of major structural and non-structural controls identified in the plan.

6. Location of areas where stabilization BMPs will be employed.

7. Areas which will be vegetated following land disturbing activities.

8. Area(s) and location(s) of wetland on the construction site and locations where storm water is discharged to a surface water or wetland.

9. Area(s) used for infiltration of post-construction storm water runoff.

10. An alphanumeric or equivalent grid overlying the entire construction site map.

11. Location and dimensions of other significant structures or features, such as utilities, structures, roads and paved surfaces.

(e) Each erosion and sediment control plan shall include a description of appropriate BMPs that will be installed and maintained at the site to prevent pollutants from reaching waters of the state. The plan shall clearly describe the appropriate erosion and sediment control BMPs for each major land disturbing construction activity and the timing during the period of land disturbing construction activity that the erosion and sediment control BMPs will be implemented. The description of erosion and sediment control BMPs shall include, when appropriate, the following minimum requirements:

1. Description of interim and permanent stabilization practices, including a BMP implementation schedule. The erosion and sediment control plan shall ensure that existing vegetation is preserved where attainable and that disturbed portions of the site are stabilized.

2. Description of the structural practices to divert flow away from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from the site. Unless otherwise specifically approved in writing by the Director of Public Works, structural measures shall be installed on upland soils.

3. Management of overland flow at all sites, unless otherwise controlled by outfall controls.

4. Trapping of sediment in channelized flow.

5. Staging grading and other land disturbing activities to limit bare areas subject to erosion.

6. Protection of downslope drainage inlets where they occur.

7. Minimization of tracking at all vehicle and equipment entry and exit locations of the construction site.

8. Clean-up of off-site sediment deposits.

9. Proper disposal of building and waste materials.

10. Stabilization of drainage ways.

11. Control of soil erosion from earthen material stockpiles.

12. Installation of permanent stabilization practices as soon as possible after final grading.

13. Minimization of dust to the maximum extent practicable.

(f) The erosion and sediment control plan shall require that velocity dissipation devices be placed at discharge locations and along the length of any outfall channel, as necessary, to provide a non-erosive flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected.

(2) EROSION AND SEDIMENT CONTROL PLAN STATEMENT. For each construction site identified under subsection 23.04(1), an erosion and sediment control plan statement shall be prepared. This statement shall be submitted to the Director of Public Works. The erosion and sediment control plan statement shall briefly describe the site, the development schedule, and the BMPs that will be used to meet the requirements of the ordinance. A site map shall also accompany the erosion and sediment control plan statement.

(3) AMENDMENTS. The applicant shall amend the erosion and sediment control plan if any of the following occur:

(a) There is a change in design, construction, operation or maintenance at the site which has the reasonable potential for the discharge of pollutants to waters of the State and which has not otherwise been addressed in the erosion and sediment control plan.

(b) The actions required by the erosion and sediment control plan fail to reduce the impacts of pollutants carried by construction site runoff.

(c) The Public Works Department notifies the applicant of changes needed in the erosion and sediment control plan.

23.10 - FEE SCHEDULE .

The fees referred to in other sections of this ordinance shall be established by the Public Works Department and may from time to time be modified by resolution. A schedule of the fees

established by the Public Works Department shall be available for review in the City Clerk's office, City of Waupun, City Hall.

23.11 - INSPECTION .

If land-disturbing construction activities are being carried out without a permit required by this ordinance, the Public Works Department may enter the land pursuant to the provisions of §66.0119(1), (2), and (3), Wis. Stats.

23.12 - ENFORCEMENT .

(1) The Public Works Department may post a stop work order if any of the following occurs:

(a) Any land-disturbing construction activity regulated under this ordinance is being undertaken without a permit.

(b) The erosion and sediment control plan is not being implemented in a good faith manner.

(c) The conditions of the permit are not being met.

Note to Users: The Public Works Department should inspect any construction site that holds a permit under this chapter at least once a month during the period starting March 1 and ending October 31 and at least 2 times during the period starting November 1 and ending February 28 to ensure compliance with the approved sediment and erosion control plan.

(2) If the responsible party does not cease activity as required in a stop work order posted under this section or fails to comply with the erosion and sediment control plan or permit conditions, the Public Works Department may revoke the permit.

(3) If the responsible party, where no permit has been issued, does not cease the activity after being notified by the Public Works Department, or if a responsible party violates a stop work order posted under sub. (1), the Public Works Department may request the City Attorney to obtain a cease and desist order in any court with jurisdiction.

(4) The Public Works Department or Board of Appeals may retract the stop work order issued under sub. (1) or the permit revocation under sub. (2).

(5) After posting a stop work order under sub. (1), the Public Works Department may issue a notice of intent to the responsible party of its intent to perform work necessary to comply with this ordinance. The Public Works Department may go on the land and commence the work after issuing the notice of intent. The costs of the work performed under this subsection by the Public Works Department, plus interest at the rate authorized by Public Works Department shall be billed to the responsible party. In the event a responsible party fails to pay the amount due, the clerk shall enter the amount due on the tax rolls and collect as a special assessment against the property pursuant to subch. VII of Ch. 66, Wis. Stats.

(6) Any person violating any of the provisions of this ordinance shall be subject to a forfeiture of not less than $100.00 nor more than $1,000.00 and the costs of prosecution for each violation. Each day a violation exists shall constitute a separate offense.

(7) Compliance with the provisions of this ordinance may also be enforced by injunction in any court with jurisdiction. It shall not be necessary to prosecute for forfeiture or a cease and desist order before resorting to injunctional proceedings.

Note to Users: Injunctional orders are authorized pursuant to §59.69(11), 61.35, or 62.23(8), Wis. Stats., for counties, villages and towns with village powers, and cities respectively

23.13 - APPEALS .

(1) BOARD OF APPEALS. The Board of Appeals created pursuant to §16.16 of the Waupun Municipal Code pursuant to §62.23(7)(e), Wis. Stats.:

(a) Shall hear and decide appeals where it is alleged that there is error in any order, decision or determination made by the Public Works Department in administering this ordinance except for cease and desist orders obtained under §23.12(3).

(b) Upon appeal, may authorize variances from the provisions of this ordinance which are not contrary to the public interest and where owing to special conditions a literal enforcement of the provisions of the ordinance will result in unnecessary hardship; and

(c) Shall use the rules, procedures, duties and powers authorized by statute in hearing and deciding appeals and authorizing variances.

(2) WHO MAY APPEAL. Appeals to the Board of Appeals may be taken [made] by any aggrieved person or by any office, department, board, or bureau of the City of Waupun affected by any decision of the Public Works Department.

23.14 - SEVERABILITY .

If a court of competent jurisdiction judges any section, clause, provision or portion of this ordinance unconstitutional or invalid, the remainder of the ordinance shall remain in force and not be affected by such judgment.

23.15 - EFFECTIVE DATE .

This ordinance shall be in force and effect from and after its adoption and publication.

Enacted this 8th day of May, 2018.

Julie J. Nickel, Mayor

ATTEST:

Angela J. Hull, City Clerk

2019 Madison Street Reconstruction & Other
Bid Amount and Financing
3/8/2019

	Streets	Stormwater	Water	Sewer	Total
Madison Street Reconstruction					
Bid Project Costs	$ 2,153,331	$ 1,286,109	$ 1,054,359	$ 911,992	$ 5,405,791
Allocated Cost					
Mobilization	62,254	62,254	62,254	62,254	249,015
Traffic Control	6,250	6,250	6,250	6,250	25,000
Other Items allocated	(35,281)	9,101	10,422	15,758	-
Trench Rock Excavation	-	8	17	17	42
Polystyren Insulation	-	-	835	15,965	16,800
Total Reconstruction Costs	2,186,554	1,363,722	1,134,137	1,012,235	5,696,648
Estimated Reconstruction Costs	2,117,183	1,253,254	978,372	1,004,957	5,353,765
Over (Under)	69,371	110,468	155,765	7,278	342,883
% Change	3.3%	8.8%	15.9%	0.7%	6.4%
Estimated Construction Administration & Inspection	78,000	78,000	78,000	78,000	312,000
TOTAL PROJECT COSTS	2,264,554	1,441,722	1,212,137	1,090,235	6,008,648
2019 BUDGET	3,353,000	1,120,500	1,402,500	1,108,100	6,984,100
Over (Under)	(1,088,446)	321,222	(190,363)	(17,865)	
FUNDING					
Cash	739,820	520,500	512,137	1,090,235	2,862,692
Grant	263,180	-	-	-	263,180
Debt	1,261,553	843,222	700,000	-	2,804,775
Total Funding	$ 2,264,554	$ 1,363,722	$ 1,212,137	$ 1,090,235	$ 5,930,648

MADISON STREET

BID TABULATION

				Engineer Estimate		Ptaschinski Construction		Dorner Inc.	
Item No	Item Description	Units	Quantity	Unit Price	Bid Amount	Unit Price	Bid Amount	Unit Price	Bid Amount
				ROADWAY ITEMS					
100-01	Clearing and Grubbing	LS	1	$ 10,000.00	$ 10,000.00	$ 27,000.00	$ 27,000.00	$ 30,000.00	$ 30,000.00
100-02	Removing Pavement	SY	21,030	$ 3.00	$ 63,090.00	$ 2.75	$ 57,832.50	$ 0.01	$ 210.30
100-03	Removing Curb & Gutter	LF	920	$ 3.00	$ 2,760.00	$ 3.00	$ 2,760.00	$ 1.85	$ 1,702.00
100-04	Removing Concrete Driveways and Sidewalk	SY	6,960	$ 4.00	$ 27,840.00	$ 9.00	$ 62,640.00	$ 4.90	$ 34,104.00
100-05	Removing Concrete Bases	EACH	1	$ 250.00	$ 250.00	$ 500.00	$ 500.00	$ 258.00	$ 258.00
100-06	Excavation Common	CY	21,975	$ 10.00	$ 219,750.00	$ 13.00	$ 285,675.00	$ 8.64	$ 189,864.00
100-07	Base Aggregate Dense 3/4-Inch	TON	1,640	$ 17.50	$ 28,700.00	$ 11.00	$ 18,040.00	$ 10.45	$ 17,138.00
100-08	Base Aggregate Dense 1 1/4-Inch	TON	10,380	$ 11.00	$ 114,180.00	$ 11.00	$ 114,180.00	$ 9.13	$ 94,769.40
100-09	Breaker Run	TON	255	$ 15.00	$ 3,825.00	$ 11.00	$ 2,805.00	$ 9.84	$ 2,509.20
100-10	Select Crushed Material	TON	15,330	$ 10.00	$ 153,300.00	$ 11.25	$ 172,462.50	$ 8.47	$ 129,845.10
100-11	Geogrid Type SR	SY	23,100	$ 2.00	$ 46,200.00	$ 1.50	$ 34,650.00	$ 1.51	$ 34,881.00
100-12	Concrete Pavement 8-Inch	SY	19,150	$ 39.00	$ 746,850.00	$ 35.20	$ 674,080.00	$ 36.26	$ 694,379.00
100-13	Concrete Pavement 9-Inch	SY	275	$ 50.00	$ 13,750.00	$ 48.79	$ 13,417.25	$ 50.25	$ 13,818.75
100-14	Concrete Pavement Gaps	EACH	6	$ 1,000.00	$ 6,000.00	$ 1,000.00	$ 6,000.00	$ 1,030.00	$ 6,180.00
100-15	Concrete Pavement Approach Slab	SY	70	$ 150.00	$ 10,500.00	$ 140.00	$ 9,800.00	$ 144.20	$ 10,094.00
100-16	Concrete Driveway 6-Inch	SY	1,310	$ 45.00	$ 58,950.00	$ 44.00	$ 57,640.00	$ 43.26	$ 56,670.60
100-17	Concrete Driveway 8-Inch	SY	190	$ 50.00	$ 9,500.00	$ 48.00	$ 9,120.00	$ 47.61	$ 9,045.90
100-18	Drilled Tie Bars	EACH	90	$ 10.00	$ 900.00	$ 8.00	$ 720.00	$ 8.24	$ 741.60
100-19	Drilled Dowel Bars	EACH	167	$ 15.00	$ 2,505.00	$ 14.00	$ 2,338.00	$ 14.42	$ 2,408.14
100-20	Asphaltic Surface	TON	255	$ 125.00	$ 31,875.00	$ 140.90	$ 35,929.50	$ 143.69	$ 36,640.95
100-21	Asphaltic Surface Driveways and Field Entrances	TON	145	$ 150.00	$ 21,750.00	$ 161.10	$ 23,359.50	$ 164.29	$ 23,822.05
100-22	Concrete Curb Type A	LF	10	$ 25.00	$ 250.00	$ 22.00	$ 220.00	$ 22.66	$ 226.60
100-23	Concrete Curb Type D	LF	60	$ 25.00	$ 1,500.00	$ 22.00	$ 1,320.00	$ 22.66	$ 1,359.60
100-24	Concrete Curb & Gutter 30-Inch Type A	LF	7,700	$ 13.00	$ 100,100.00	$ 14.71	$ 113,267.00	$ 13.09	$ 100,793.00
100-25	Concrete Curb & Gutter 30-Inch Type D	LF	690	$ 20.00	$ 13,800.00	$ 22.00	$ 15,180.00	$ 22.66	$ 15,635.40
100-26	Concrete Curb Pedestrian	LF	310	$ 25.00	$ 7,750.00	$ 22.00	$ 6,820.00	$ 22.66	$ 7,024.60
100-27	Concrete Sidewalk 4-Inch	SF	46,395	$ 4.50	$ 208,777.50	$ 4.56	$ 211,561.20	$ 4.18	$ 193,931.10
100-28	Concrete Sidewalk 6-Inch	SF	2,770	$ 5.00	$ 13,850.00	$ 5.10	$ 14,127.00	$ 4.74	$ 13,129.80
100-29	Curb Ramp Detectable Warning Field Yellow	SF	320	$ 35.00	$ 11,200.00	$ 30.00	$ 9,600.00	$ 30.90	$ 9,888.00
100-30	Concrete Steps	SF	190	$ 70.00	$ 13,300.00	$ 70.00	$ 13,300.00	$ 72.10	$ 13,699.00
100-31	Pipe Underdrain Wrapped 6-Inch	LF	600	$ 7.50	$ 4,500.00	$ 12.00	$ 7,200.00	$ 25.00	$ 15,000.00
100-32	Topsoil	SY	5,950	$ 4.50	$ 26,775.00	$ 3.40	$ 20,230.00	$ 3.50	$ 20,825.00
100-33	Silt Fence	LF	85	$ 5.00	$ 425.00	$ 3.00	$ 255.00	$ 3.09	$ 262.65
100-34	Erosion Mat Urban Class I Type B	SY	5,950	$ 1.50	$ 8,925.00	$ 1.90	$ 11,305.00	$ 1.96	$ 11,662.00
100-35	Turbidity Barriers	SY	40	$ 50.00	$ 2,000.00	$ 40.00	$ 1,600.00	$ 41.20	$ 1,648.00
100-36	Inlet Protection Type A	EACH	26	$ 100.00	$ 2,600.00	$ 100.00	$ 2,600.00	$ 103.00	$ 2,678.00
100-37	Inlet Protection Type B	EACH	7	$ 75.00	$ 525.00	$ 40.00	$ 280.00	$ 41.20	$ 288.40
100-38	Inlet Protection Type C	EACH	85	$ 75.00	$ 6,375.00	$ 45.00	$ 3,825.00	$ 46.35	$ 3,939.75
100-39	Inlet Protection Type D	EACH	26	$ 100.00	$ 2,600.00	$ 100.00	$ 2,600.00	$ 103.00	$ 2,678.00
100-40	Fertilizer Type B	CWT	4	$ 75.00	$ 277.50	$ 100.00	$ 370.00	$ 103.00	$ 381.10
100-41	Seed Mix No. 40	LB	105	$ 9.00	$ 945.00	$ 20.00	$ 2,100.00	$ 20.60	$ 2,163.00
100-42	Signs Type II Reflective H	SF	358	$ 17.50	$ 6,265.00	$ 19.65	$ 7,034.70	$ 20.24	$ 7,245.92
100-43	Signs Type II Reflective F	SF	13	$ 20.00	$ 260.00	$ 24.80	$ 322.40	$ 25.54	$ 332.02

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100-44	Removing Signs Type II	EACH	71	$	25.00	$	1,775.00	$	20.00	$	1,420.00	$	20.60	$	1,462.60
100-45	Removing Small Sign Supports	EACH	59	$	25.00	$	1,475.00	$	20.00	$	1,180.00	$	20.60	$	1,215.40
100-46	Moving Signs Type II	EACH	8	$	75.00	$	600.00	$	90.00	$	720.00	$	92.70	$	741.60
100-47	U-Channel Posts 13-FT	EACH	51	$	60.00	$	3,060.00	$	125.00	$	6,375.00	$	128.75	$	6,566.25
100-48	U-Channel Posts 14-FT	EACH	9	$	65.00	$	585.00	$	125.00	$	1,125.00	$	128.75	$	1,158.75
100-49	U-Channel Posts 15-FT	EACH	3	$	70.00	$	210.00	$	150.00	$	450.00	$	154.50	$	463.50
100-50	Round Tubular Steel Posts 14-FT	EACH	8	$	90.00	$	720.00	$	150.00	$	1,200.00	$	154.50	$	1,236.00
100-51	Round Tubular Steel Posts 16-FT	EACH	1	$	100.00	$	100.00	$	175.00	$	175.00	$	180.25	$	180.25
100-52	Marking Line Epoxy 4-Inch	LF	15,110	$	1.00	$	15,110.00	$	0.55	$	8,310.50	$	0.57	$	8,612.70
100-53	Marking Line Epoxy 8-Inch	LF	85	$	2.00	$	170.00	$	0.90	$	76.50	$	0.93	$	79.05
100-54	Marking Arrow Paint	EACH	7	$	200.00	$	1,400.00	$	105.00	$	735.00	$	108.00	$	756.00
100-55	Marking Arrow Epoxy	EACH	34	$	225.00	$	7,650.00	$	105.00	$	3,570.00	$	108.00	$	3,672.00
100-56	Marking Symbol Paint	EACH	1	$	200.00	$	200.00	$	175.00	$	175.00	$	180.25	$	180.25
100-57	Marking Symbol Epoxy	EACH	45	$	255.00	$	11,475.00	$	175.00	$	7,875.00	$	180.25	$	8,111.25
100-58	Marking Stop Line Epoxy 18-Inch	LF	70	$	10.00	$	700.00	$	9.25	$	647.50	$	9.53	$	667.10
100-59	Marking Diagonal Epoxy 12-Inch	LF	250	$	8.00	$	2,000.00	$	8.75	$	2,187.50	$	9.01	$	2,252.50
100-60	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	2,425	$	8.00	$	19,400.00	$	7.50	$	18,187.50	$	7.73	$	18,745.25
100-61	Marking Curb Epoxy	LF	2,070	$	5.00	$	10,350.00	$	9.75	$	20,182.50	$	10.04	$	20,782.80
100-62	Marking Parking Stall Paint	LF	560	$	3.00	$	1,680.00	$	4.25	$	2,380.00	$	4.38	$	2,452.80
100-63	Marking Parking Stall Epoxy	LF	1,050	$	4.00	$	4,200.00	$	4.25	$	4,462.50	$	4.38	$	4,599.00
100-64	Sawing Asphalt	LF	1,015	$	2.00	$	2,030.00	$	2.00	$	2,030.00	$	1.60	$	1,624.00
100-65	Sawing Concrete	LF	1,825	$	3.00	$	5,475.00	$	4.00	$	7,300.00	$	2.32	$	4,234.00
100-66	Mobilization	EACH	1	$	100,000.00	$	100,000.00	$	249,015.00	$	249,015.00	$	55,000.00	$	55,000.00
100-67	Traffic Control	LS	1	$	25,000.00	$	25,000.00	$	25,000.00	$	25,000.00	$	15,000.00	$	15,000.00
100-68	Remove & Replace Traffic Signal Loop Detectors	LS	1	$	25,000.00	$	25,000.00	$	6,500.00	$	6,500.00	$	7,500.00	$	7,500.00
	Roadway Subtotal					$	2,245,840.00			$	2,427,346.05			$	1,981,165.98
	STORM SEWER ITEMS														
200-01	Connect to Existing Storm Sewer Structure	EACH	2	$	1,000.00	$	2,000.00	$	500.00	$	1,000.00	$	1,334.00	$	2,668.00
200-02	Removing Manholes	EACH	29	$	400.00	$	11,600.00	$	300.00	$	8,700.00	$	485.00	$	14,065.00
200-03	Removing Inlets	EACH	38	$	300.00	$	11,400.00	$	150.00	$	5,700.00	$	289.00	$	10,982.00
200-04	Removing Storm Sewer Pipe	LF	5,399	$	15.00	$	80,985.00	$	25.00	$	134,975.00	$	38.00	$	205,162.00
200-05	Concrete Collars for Pipe	EACH	25	$	500.00	$	12,500.00	$	350.00	$	8,750.00	$	939.00	$	23,475.00
200-06	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	1,096	$	60.00	$	65,760.00	$	57.00	$	62,472.00	$	67.00	$	73,432.00
200-07	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	275	$	65.00	$	17,875.00	$	60.00	$	16,500.00	$	65.00	$	17,875.00
200-08	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	351	$	70.00	$	24,570.00	$	70.00	$	24,570.00	$	63.00	$	22,113.00
200-09	Storm Sewer Pipe Reinforced Concrete Class IV 21-Inch	LF	65	$	75.00	$	4,875.00	$	80.00	$	5,200.00	$	76.00	$	4,940.00
200-10	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	140	$	80.00	$	11,200.00	$	83.00	$	11,620.00	$	82.00	$	11,480.00
200-11	Storm Sewer Pipe Reinforced Concrete Class IV 27-Inch	LF	249	$	85.00	$	21,165.00	$	85.00	$	21,165.00	$	79.00	$	19,671.00
200-12	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	LF	1,007	$	90.00	$	90,630.00	$	100.00	$	100,700.00	$	94.00	$	94,658.00
200-13	Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch	LF	637	$	125.00	$	79,625.00	$	130.00	$	82,810.00	$	107.00	$	68,159.00
200-14	Storm Sewer Pipe Reinforced Concrete Class IV 42-Inch	LF	161	$	150.00	$	24,150.00	$	223.00	$	35,903.00	$	131.00	$	21,091.00
200-15	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 38x60-Inch	LF	752	$	175.00	$	131,600.00	$	276.00	$	207,552.00	$	207.00	$	155,664.00
200-16	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 43x68-Inch	LF	382	$	250.00	$	95,500.00	$	308.00	$	117,656.00	$	243.00	$	92,826.00
200-17	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 48x76-Inch	LF	348	$	350.00	$	121,800.00	$	374.00	$	130,152.00	$	329.00	$	114,492.00

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200-18	Storm Sewer Pipe Reinforced Concrete Box Culvert 36x78-Inch	LF	20	$	500.00	$	10,000.00	$	1,021.00	$	20,420.00	$	655.00	$	13,100.00
200-19	Storm Sewer Lateral 6-Inch	LF	155	$	70.00	$	10,850.00	$	55.00	$	8,525.00	$	50.00	$	7,750.00
200-20	Storm Sewer Lateral 8-Inch	LF	42	$	80.00	$	3,360.00	$	65.00	$	2,730.00	$	51.00	$	2,142.00
200-21	Storm Sewer Lateral 10-Inch	LF	10	$	90.00	$	900.00	$	75.00	$	750.00	$	54.00	$	540.00
200-22	Storm Sewer Lateral 12-Inch	LF	5	$	100.00	$	500.00	$	100.00	$	500.00	$	60.00	$	300.00
200-23	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 48x76-Inch	EACH	1	$	4,000.00	$	4,000.00	$	6,900.00	$	6,900.00	$	6,558.00	$	6,558.00
200-24	Manhole Covers Type J	EACH	37	$	500.00	$	18,500.00	$	566.00	$	20,942.00	$	450.00	$	16,650.00
200-25	Inlet Covers Type C	EACH	1	$	350.00	$	350.00	$	559.00	$	559.00	$	334.00	$	334.00
200-26	Inlet Covers Type H	EACH	27	$	500.00	$	13,500.00	$	717.00	$	19,359.00	$	613.00	$	16,551.00
200-27	Inlet Covers Type H-S	EACH	18	$	500.00	$	9,000.00	$	717.00	$	12,906.00	$	613.00	$	11,034.00
200-28	Inlet Covers Type H-C	EACH	2	$	500.00	$	1,000.00	$	559.00	$	1,118.00	$	613.00	$	1,226.00
200-29	Catch Basins 2x3-FT	EACH	46	$	1,350.00	$	62,100.00	$	1,200.00	$	55,200.00	$	1,247.00	$	57,362.00
200-30	Manholes 4-FT Diameter	EACH	10	$	2,000.00	$	20,000.00	$	1,500.00	$	15,000.00	$	1,927.00	$	19,270.00
200-31	Manholes 5-FT Diameter	EACH	2	$	2,500.00	$	5,000.00	$	2,100.00	$	4,200.00	$	2,811.00	$	5,622.00
200-32	Manholes 6-FT Diameter	EACH	13	$	3,500.00	$	45,500.00	$	2,800.00	$	36,400.00	$	3,595.00	$	46,735.00
200-33	Manholes 8-FT Diameter	EACH	3	$	8,500.00	$	25,500.00	$	5,500.00	$	16,500.00	$	5,994.00	$	17,982.00
200-34	Manholes 9-FT Diameter	EACH	4	$	10,000.00	$	40,000.00	$	8,200.00	$	32,800.00	$	10,383.00	$	41,532.00
200-35	Manholes 10-FT Diameter	EACH	5	$	15,000.00	$	75,000.00	$	9,650.00	$	48,250.00	$	11,280.00	$	56,400.00
200-36	Inlets 4-FT Diameter	EACH	1	$	1,750.00	$	1,750.00	$	1,500.00	$	1,500.00	$	1,814.00	$	1,814.00
200-37	Inlets 2x3-FT	EACH	1	$	1,250.00	$	1,250.00	$	1,200.00	$	1,200.00	$	1,573.00	$	1,573.00
200-38	Adjusting Manhole Covers	EACH	1	$	500.00	$	500.00	$	400.00	$	400.00	$	500.00	$	500.00
200-39	Adjusting Inlet Covers	EACH	3	$	500.00	$	1,500.00	$	300.00	$	900.00	$	500.00	$	1,500.00
200-40	Pipe Grates	EACH	1	$	1,500.00	$	1,500.00	$	3,500.00	$	3,500.00	$	3,338.00	$	3,338.00
200-41	Plug 15-Inch	EACH	1	$	500.00	$	500.00	$	125.00	$	125.00	$	87.00	$	87.00
	Storm Sewer Subtotal					$	1,159,295.00			$	1,286,109.00			$	1,282,653.00
	WATER MAIN ITEMS														
300-01	Connect to Existing Water Main	EACH	24	$	1,500.00	$	36,000.00	$	2,100.00	$	50,400.00	$	1,922.00	$	46,128.00
300-02	Water Main PVC 4-Inch	LF	105	$	80.00	$	8,400.00	$	124.00	$	13,020.00	$	192.00	$	20,160.00
300-03	Water Main PVC 6-Inch	LF	450	$	85.00	$	38,250.00	$	101.00	$	45,450.00	$	151.00	$	67,950.00
300-04	Water Main PVC 8-Inch	LF	415	$	90.00	$	37,350.00	$	168.00	$	69,720.00	$	206.00	$	85,490.00
300-05	Water Main PVC 10-Inch	LF	3,890	$	95.00	$	369,550.00	$	118.00	$	459,020.00	$	164.00	$	637,960.00
300-06	Water Service Pipe 1-Inch	LF	1,955	$	60.00	$	117,300.00	$	89.00	$	173,995.00	$	81.00	$	158,355.00
300-07	Water Service Corp, Stop, Box, Saddle and Union	EACH	56	$	600.00	$	33,600.00	$	489.00	$	27,384.00	$	1,180.00	$	66,080.00
300-08	Water Gate Valve 4-Inch	EACH	4	$	1,250.00	$	5,000.00	$	1,400.00	$	5,600.00	$	1,034.00	$	4,136.00
300-09	Water Gate Valve 6-Inch	EACH	13	$	1,500.00	$	19,500.00	$	1,845.00	$	23,985.00	$	1,205.00	$	15,665.00
300-10	Water Gate Valve 8-Inch	EACH	8	$	1,750.00	$	14,000.00	$	2,000.00	$	16,000.00	$	1,656.00	$	13,248.00
300-11	Water Gate Valve 10-Inch	EACH	20	$	2,000.00	$	40,000.00	$	2,900.00	$	58,000.00	$	2,340.00	$	46,800.00
300-12	Water Tee 8x4-Inch	EACH	2	$	500.00	$	1,000.00	$	440.00	$	880.00	$	481.00	$	962.00
300-13	Water Tee 10x4-Inch	EACH	2	$	600.00	$	1,200.00	$	820.00	$	1,640.00	$	721.00	$	1,442.00
300-14	Water Tee 10x6-Inch	EACH	10	$	650.00	$	6,500.00	$	900.00	$	9,000.00	$	804.00	$	8,040.00
300-15	Water Tee 10x8-Inch	EACH	5	$	700.00	$	3,500.00	$	900.00	$	4,500.00	$	905.00	$	4,525.00
300-16	Water Tee 10x10-Inch	EACH	1	$	750.00	$	750.00	$	999.00	$	999.00	$	1,025.00	$	1,025.00
300-17	Water Cross 10x6-Inch	EACH	2	$	650.00	$	1,300.00	$	1,999.00	$	3,998.00	$	971.00	$	1,942.00
300-18	Water Cross 10x8-Inch	EACH	2	$	700.00	$	1,400.00	$	2,000.00	$	4,000.00	$	1,086.00	$	2,172.00
300-19	Water Cross 10x10-Inch	EACH	1	$	750.00	$	750.00	$	2,000.00	$	2,000.00	$	1,280.00	$	1,280.00

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300-20	Water 22.5 Degree Bend 6-Inch	EACH	7	$	300.00	$	2,100.00	$	200.00	$	1,400.00	$	260.00	$	1,820.00
300-21	Water 22.5 Degree Bend 8-Inch	EACH	6	$	350.00	$	2,100.00	$	389.00	$	2,334.00	$	370.00	$	2,220.00
300-22	Water 22.5 Degree Bend 10-Inch	EACH	6	$	400.00	$	2,400.00	$	575.00	$	3,450.00	$	553.00	$	3,318.00
300-23	Water 45 Degree Bend 4-Inch	EACH	6	$	250.00	$	1,500.00	$	245.00	$	1,470.00	$	209.00	$	1,254.00
300-24	Water 45 Degree Bend 6-Inch	EACH	24	$	300.00	$	7,200.00	$	300.00	$	7,200.00	$	271.00	$	6,504.00
300-25	Water 45 Degree Bend 8-Inch	EACH	11	$	350.00	$	3,850.00	$	200.00	$	2,200.00	$	374.00	$	4,114.00
300-26	Water 45 Degree Bend 10-Inch	EACH	25	$	400.00	$	10,000.00	$	600.00	$	15,000.00	$	560.00	$	14,000.00
300-27	Water 90 Degree Bend 8-Inch	EACH	1	$	350.00	$	350.00	$	345.00	$	345.00	$	419.00	$	419.00
300-28	Water 90-Degree Bend 10-Inch	EACH	1	$	400.00	$	400.00	$	700.00	$	700.00	$	690.00	$	690.00
300-29	Water Reducer 8x6-Inch	EACH	4	$	300.00	$	1,200.00	$	420.00	$	1,680.00	$	316.00	$	1,264.00
300-30	Water Reducer 10x6-Inch	EACH	2	$	350.00	$	700.00	$	333.00	$	666.00	$	383.00	$	766.00
300-31	Water Reducer 10x8-Inch	EACH	1	$	400.00	$	400.00	$	523.00	$	523.00	$	424.00	$	424.00
300-32	Hydrant	EACH	8	$	4,500.00	$	36,000.00	$	5,400.00	$	43,200.00	$	4,209.00	$	33,672.00
300-33	Abandon Water Main	LS	1	$	10,000.00	$	10,000.00	$	4,000.00	$	4,000.00	$	6,403.00	$	6,403.00
300-34	Water Cap 6-Inch	EACH	1	$	300.00	$	300.00	$	600.00	$	600.00	$	269.00	$	269.00
	Water Main Subtotal					$	813,850.00			$	1,054,359.00			$	1,260,497.00
	SANITARY SEWER ITEMS														
400-01	Connect to Existing Sanitary Sewer Manhole	EACH	1	$	1,500.00	$	1,500.00	$	1,800.00	$	1,800.00	$	2,134.00	$	2,134.00
400-02	Connect to Existing Sanitary Sewer Pipe	EACH	12	$	500.00	$	6,000.00	$	1,650.00	$	19,800.00	$	838.00	$	10,056.00
400-03	Sanitary Manhole 4-FT Diameter	EACH	17	$	3,500.00	$	59,500.00	$	5,400.00	$	91,800.00	$	4,702.00	$	79,934.00
400-04	Sanitary Manhole 5-FT Diameter	EACH	2	$	4,500.00	$	9,000.00	$	3,900.00	$	7,800.00	$	4,980.00	$	9,960.00
400-05	Sanitary Manhole 6-FT Diameter	EACH	2	$	5,000.00	$	10,000.00	$	4,000.00	$	8,000.00	$	5,631.00	$	11,262.00
400-06	Sanitary Manhole 4-FT Diameter w/ Outside Drop	EACH	1	$	7,500.00	$	7,500.00	$	5,500.00	$	5,500.00	$	6,738.00	$	6,738.00
400-07	Sanitary Sewer PVC 8-Inch	LF	3,510	$	90.00	$	315,900.00	$	144.00	$	505,440.00	$	155.00	$	544,050.00
400-08	Sanitary Sewer PVC 10-Inch	LF	724	$	120.00	$	86,880.00	$	92.00	$	66,608.00	$	192.00	$	139,008.00
400-09	Sanitary Sewer PVC 15-Inch	LF	384	$	175.00	$	67,200.00	$	85.00	$	32,640.00	$	161.00	$	61,824.00
400-10	Sanitary Sewer PVC 24-Inch	LF	136	$	250.00	$	34,000.00	$	109.00	$	14,824.00	$	189.00	$	25,704.00
400-11	Sanitary Sewer Lateral 6-Inch	LF	2,330	$	80.00	$	186,400.00	$	66.00	$	153,780.00	$	139.00	$	323,870.00
400-12	Abandon Sanitary Sewer	LS	1	$	10,000.00	$	10,000.00	$	4,000.00	$	4,000.00	$	25,000.00	$	25,000.00
	Sanitary Sewer Subtotal					$	793,880.00			$	911,992.00			$	1,239,540.00
	MISCELLANEOUS ITEMS														
500-01	Polystyrene Insulation	SF	16,800	$	3.00	$	50,400.00	$	1.00	$	16,800.00	$	3.24	$	54,432.00
500-02	Trench Rock Excavation	CY	4,150	$	70.00	$	290,500.00	$	0.01	$	41.50	$	0.01	$	41.50
	Miscellaneous Items Subtotal					$	340,900.00			$	16,841.50			$	54,473.50
	Bid Total					$	5,353,765.00			$	5,696,647.55			$	5,818,329.48

Proposed Mill & Overlay Projects

Item #	Street		Est. Cost
1	Edgewood Dr. (Brandon to Summer)	No concerns	$25,000
2	E. Jefferson St. (Welch to Shaler)	No concerns	$25,000
3	Fond du Lac St. (Main to Rounsville)	No concerns	$64,000
4	E. Jefferson St. (555' E of State to Madison)		$57,000
TOTAL			$171,000