

# 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.

Form 3400-224(R8/2021)

## Reporting Information :

Will you be completing the Annual Report or other submittal type?  Annual Report  Other

**Project Name:** 2021 Annual Report

**County:** Waukesha

**Municipality:** Mukwonago, Village

**Permit Number:** S050075

**Facility Number:** 35717

**Reporting Year:** 2021

Is this submittal also satisfying an Urban Nonpoint Source Grant funded deliverable?  Yes  No

## 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 other supporting documents as appropriate using the attachments tab above
  - Public Education and Outreach Annual Report Summary
  - Public Involvement and Participation Annual Report Summary
  - Illicit Discharge Detection and Elimination Annual Report Summary
  - Construction Site Pollution Control Annual Report Summary
  - Post-Construction Storm Water Management Annual Report Summary
  - Pollution Prevention Annual Report Summary
    - Leaf and Yard Waste Management
    - Municipal Facility (BMP) Inspection Report
    - Municipal Property SWPPP
    - Municipally Property Inspection Report
    - Winter Road Maintenance
  - Storm Sewer Map Annual Report Attachment
  - Storm Water Quality Management Annual Report Attachment
  - TMDL Attachment
  - Storm Water Consortium/Group Report

- Municipal Cooperation Attachment
- Other Annual Report Attachment
  
- Attach the following permit compliance documents as appropriate using the attachments tab above
  - Storm Water Management Program
    - Public Education and Outreach Program
    - Public Involvement and Participation Program
    - Illicit Discharge Detection and Elimination Program
    - Construction Site Pollutant Control Program
    - Post-Construction Storm Water Management Program
    - Pollution Prevention Program
      - Municipal Storm Water Management Facility (BMP) Inventory
      - Municipal Storm Water Management Facility (BMP) Inspection and Maintenance Plan
  - Total Maximum Daily Load documents (*\*If applicable, see permit for due dates.*)
    - TMDL Mapping\*
    - TMDL Modeling\*
    - TMDL Implementation Plan\*
    - Fecal Coliform Screening Parameter \*
    - Fecal Coliform Inventory and Map (*S050075-03 general permittees Appendix B B.5.2 – document due to the department by March 31, 2022*)
    - Fecal Coliform Source Elimination Plan (*S050075-03 general permittees Appendix B - document due to the department by October 31, 2023*)
  
- Sign and Submit form

**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:** Mukwonago, Village  
**Facility ID # or (FIN):** 35717  
**Updated Information:**  Check to update mailing address information

**Mailing Address:** 440 River Crest Court

**Mailing Address 2:**

**City:** Mukwonago

**State:** Wisconsin

**Zip Code:** 53149      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:** Ron

**Last Name:** Bittner

Select to **update** current contact information

**Title:** PW Director

**Mailing Address:** 440 River Crest Court

**Mailing Address 2:**

**City:** Mukwonago

**State:** WI

**Zip Code:** 53149      xxxxx or xxxxx-xxxx

**Phone Number:** 262-363-6447      Ext:      xxx-xxx-xxxx

**Email:** rbittner@villageofmukwonago.com

**Additional Contacts Information (Optional)**

I&E Program

**Individual with responsibility for:  
(Check all that apply)**

- IDDE Program
- 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?

Yes  No

Public Education and Outreach Waukesha County

Public Involvement and Participation Waukesha County

Illicit Discharge Detection and Elimination

Construction Site Pollutant Control Ruekert & Mielke

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 (R8/2021)

**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 Delivery Mechanism that best describes how the topics were conveyed to your population. Use the Add Event to add additional entries.

<b>Event Start Date</b>	1/3/2021		
<b>Project/Event Name</b>	Public Education and Outreach		
<b>Delivery Mechanism</b>	Targeted group training*		*Active
Topics Covered	Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
<input checked="" type="checkbox"/> Illicit discharge detection and elimination <input checked="" type="checkbox"/> Household hazardous waste disposal/pet waste management/vehicle washing <input checked="" type="checkbox"/> Yard waste management/pesticide and fertilizer application <input checked="" type="checkbox"/> Stream and shoreline management <input checked="" type="checkbox"/> Residential infiltration <input checked="" type="checkbox"/> Construction sites and post-construction storm water management <input checked="" type="checkbox"/> Pollution prevention <input checked="" type="checkbox"/> Green infrastructure/low impact development <input type="checkbox"/> Other:	<input checked="" type="checkbox"/> General Public <input type="checkbox"/> Public Employees <input type="checkbox"/> Residents <input checked="" type="checkbox"/> Businesses <input checked="" type="checkbox"/> Contractors <input checked="" type="checkbox"/> Developers <input type="checkbox"/> Industries <input type="checkbox"/> Other	101 +	<input checked="" type="radio"/> Yes <input type="radio"/> No

<b>Event Start Date</b>	4/7/2021		
<b>Project/Event Name</b>	Stormwater Presentation		
<b>Delivery Mechanism</b>	Government Event (Public Hearing, Council Meeting, etc)*		*Active
Topics Covered	Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
<input checked="" type="checkbox"/> Illicit discharge detection and elimination <input checked="" type="checkbox"/> Household hazardous waste disposal/pet waste management/vehicle washing <input checked="" type="checkbox"/> Yard waste management/pesticide and fertilizer application <input type="checkbox"/> Stream and shoreline management <input checked="" type="checkbox"/> Residential infiltration <input checked="" type="checkbox"/> Construction sites and post-construction storm water management <input checked="" type="checkbox"/> Pollution prevention <input checked="" type="checkbox"/> Green infrastructure/low impact development <input type="checkbox"/> Other:	<input checked="" type="checkbox"/> General Public <input checked="" type="checkbox"/> Public Employees <input type="checkbox"/> Residents <input type="checkbox"/> Businesses <input type="checkbox"/> Contractors <input type="checkbox"/> Developers <input type="checkbox"/> Industries <input checked="" type="checkbox"/> Other	11-50	<input type="radio"/> Yes <input checked="" type="radio"/> No

b. Brief explanation on Public Education and Outreach reporting. *Limit response to 250 characters and/or attach supplemental information on the attachments page.*

See attached Waukesha County Education Group Spreadsheet for regional efforts.

## 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 (R8/2021)

## Minimum Control Measures - Section 2 : Complete

### 2. Public Involvement and Participation

a. Permit Activities. Complete the following information on Public Involvement and Participation Activities related to storm water. Select the Delivery Mechanism that best describes how the permit activities were conveyed to your population. Use the Add Event to add additional entries.

<b>Event Start Date</b>	5/20/2021		
<b>Project/Event Name</b>	Stormwater workshop		
<b>Delivery Mechanism</b>	Presentation of Storm Water Information		
Topics Covered	Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
<input checked="" type="checkbox"/> MS4 Annual Report <input checked="" type="checkbox"/> Storm Water Management Program <input checked="" type="checkbox"/> Storm Water related ordinance <input type="checkbox"/> Other:	<input type="checkbox"/> General Public <input checked="" type="checkbox"/> <input type="checkbox"/> Public Employees <input type="checkbox"/> Residents <input type="checkbox"/> Businesses <input checked="" type="checkbox"/> Contractors <input checked="" type="checkbox"/> Developers <input type="checkbox"/> Industries <input type="checkbox"/> Other	101 +	<input checked="" type="radio"/> Yes <input type="radio"/> No

b. Volunteer Activities. Complete the following information on Public Involvement and Participation Activities related to storm water. Select the Delivery Mechanism that best describes how volunteer activities were conveyed to your population. Use the Add Event to add additional entries.

<b>Event Start Date</b>	7/10/2021	<input type="checkbox"/> NA (Individual Permittee).	
<b>Project/Event Name</b>	Asian Clam Monitoring		
<b>Delivery Mechanism</b>	Public Workshop		
Topics Covered	Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
Volunteer Opportunity	<input checked="" type="checkbox"/> General Public <input type="checkbox"/> Public Employees	11-50	<input checked="" type="radio"/> Yes <input type="radio"/> No

	<input type="checkbox"/> Residents <input type="checkbox"/> Businesses <input type="checkbox"/> Contractors <input type="checkbox"/> Developers <input type="checkbox"/> Industries <input type="checkbox"/> Other		
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c. Brief explanation on Public Involvement and Participation reporting. *Limit response to 250 characters and/or attach supplemental information on the attachments page.*

The village participates in the Waukesha County program for public participation.

**Missing Information**

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

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Form 3400-224 (R8/2021)

**Minimum Control Measures - Section 3 : Complete**

**3. Illicit Discharge Detection and Elimination**

- a. How many total outfalls does the municipality have?   Unsure
- b. How many outfalls did the municipality evaluate as part of their routine ongoing field screening program?   Unsure
- c. From the municipality's routine screening, how many were confirmed illicit discharges?   Unsure
- d. How many illicit discharge complaints did the municipality receive?   Unsure
- e. From the complaints received, how many were confirmed illicit discharges?   Unsure
- f. How many of the identified illicit discharges did the municipality eliminate in the reporting year (from both routine screening and complaints)?   Unsure

(If the sum of 3.c. and 3.e. does not equal 3.f., please explain below.)

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)
- Notice of Violation
- Civil Penalty/ Citation

Additional Information: \_\_\_\_\_

h. Brief explanation on Illicit Discharge Detection and Elimination reporting. *If you*

marked *Unsure* for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.

Priority outfalls are screened annually. Major outfalls are screened once per permit. Outfalls exhibiting flows are tested and investigated when high concentrations are detected. No illicit discharges were detected in 2021.

## 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 (R8/2021)

## Minimum Control Measures - Section 4 : Complete

### 4. Construction Site Pollutant Control

- a. How many total construction sites with one acre or more of land disturbing construction activity were active at any point in the reporting year?   Unsure
- b. How many construction sites with one acre or more of land disturbing construction activity did the municipality issue permits for in the reporting year?   Unsure
- c. How many erosion control inspections did the municipality complete in the reporting year (at sites with one acre or more of land disturbing construction activity)?   Unsure
- d. 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
- |   |                                 |
|---|---------------------------------|
| <input type="checkbox"/> No Authority                                 |                                 |
| <input checked="" type="checkbox"/> Verbal Warning                    | <input type="text" value="0"/>  |
| <input checked="" type="checkbox"/> Written Warning (including email) | <input type="text" value="70"/> |
| <input checked="" type="checkbox"/> Notice of Violation               | <input type="text" value="70"/> |
| <input type="checkbox"/> Civil Penalty/ Citation                      | <input type="text"/>            |
| <input checked="" type="checkbox"/> Stop Work Order                   | <input type="text" value="1"/>  |
| <input checked="" type="checkbox"/> Forfeiture of Deposit             | <input type="text" value="0"/>  |
| <input checked="" type="checkbox"/> Other - Describe below            | <input type="text" value="0"/>  |

Withhold Occupancy

- e. Brief explanation on Construction Site Pollutant Control reporting . *If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.*

Development sites are inspected once per month by the village's engineering firm. Sites with violations are inspected weekly. Reports are documented and issued via email. Corrective actions are handled by the PW director and village engineer.



**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 (R8/2021)

**Minimum Control Measures - Section 5 : Complete**

**5. Post-Construction Storm Water Management**

- a. How many sites with new structural storm water management facilities\* have received local approval ?   Unsure  
\*Engineered and constructed systems that are designed to provide storm water quality control such as wet detention ponds, constructed wetlands, infiltration basins, grassed swales, permeable pavement, catch basin sumps, etc.
- b. Does the permittee have procedures for inspecting and maintaining private storm water facilities?  Yes  No  Unsure
- c. If Yes, how many privately owned storm water management facilities were inspected in the reporting year ?   Unsure  
Inspections completed by private landowners should be included in the reported number.

- d. 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
  - No Authority
  - Verbal Warning
  - Written Warning (including email)
  - Notice of Violation
  - Civil Penalty/ Citation
  - Forfeiture of Deposit
  - Complete Maintenance
  - Bill Responsible Party
  - Other - Describe below

e. Brief explanation on Post-Construction Storm Water Management reporting. *If marked 'Unsure' on any questions above, justify your reasoning. Limit your response to 250 characters and/or attach supplemental information on the attachments page.*

Private structures are inspected per the approved SWMA/SWMP and submitted to the village upon request. Private structures require a professional inspection every 5 years.

**Missing Information**

**Minimum Control Measures - Section 6 : Complete****6. Pollution Prevention**Storm Water Management Facility Inspections  Not Applicable

- a. Enter the total number of municipally owned or operated structural storm water management facilities?   Unsure
- b. How many new municipally owned storm water management facilities were installed in the reporting year?   Unsure
- c. How many municipally owned storm water management facilities were inspected in the reporting year?   Unsure
- d. What elements are looked at during inspections (250 character limit)?

Municipal structures are investigated for animal damage, erosion, correct vegetation, inlet/outlet damage and pool quality.

- e. How many of these facilities required maintenance?   Unsure
- f. Brief explanation on Storm Water Management Facility inspection reporting. *If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.*

Village owned ponds are inspected per the SWMP and deficiencies are corrected based on urgency.

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

- g. How many municipal properties require a SWPPP?   Unsure
- h. How many inspections of municipal properties have been conducted in the reporting year?   Unsure
- i. Have amendments to the SWPPPs been made?  
 Yes  No  Unsure
- j. If yes, describe what changes have been made. Limit response to 250 characters and/or attach supplemental information on the attachment page:

- k. Brief explanation on Storm Water Pollution Prevention Plan reporting. *If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.*

The DPW yard is inspected quarterly by staff. The inspections are used as training tools for new employees and as a refresher experienced staff. deficiencies are corrected and staff is trained in prevention.

Collection Services - Street Sweeping / Cleaning Program  Not Applicable

- l. Did the municipality conduct street sweeping/cleaning during the reporting year?  
 Yes  No  Unsure
- m. If known, how many tons of material was removed?   Unsure
- n. Does the municipality have a low hazard exemption for this material?  
 Yes  No
- o. 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 - Explain frequency Urban street sections are swept 4 time annually  
 No - Explain \_\_\_\_\_  
 Not Applicable

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

- p. Did the municipality conduct catch basin sump cleaning during the reporting year?  
 Yes  No  Unsure
- q. How many catch basin sumps were cleaned in the reporting year?   Unsure
- r. If known, how many tons of material was collected?   Unsure
- s. Does the municipality have a low hazard exemption for this material?  
 Yes  No
- t. 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- Explain frequency Each catch basin is cleaned once per permit.  
 No - Explain \_\_\_\_\_  
 Not Applicable

Collection Services - *Leaf Collection Program*  Not Applicable

- u. Does the municipality conduct curbside leaf collection?  Yes  No  Unsure
- v. Does the municipality notify homeowners about pickup?  Yes  No  Unsure
- w. Where are the residents directed to store the leaves for collection?  
 Pile on terrace  Pile in street  Bags on terrace  Unsure  
 Other - Describe \_\_\_\_\_
- x. What is the frequency of collection?  
8 collections annually, Nov & Dec for leaves.
- y. Is collection followed by street sweeping/cleaning?  Yes  No  Unsure
- z. Brief explanation on Collection Services reporting. *If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page*

Winter Road Management  Not Applicable

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

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

ab. 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	0	41	104	198	21

Liquids (gallons) (ex. brine)

	Oct	Nov	Dec	Jan	Feb	Mar
Brine	0	0	4523	1338	1920	313

ac. Was salt applying machinery calibrated in the reporting year?  Yes  No  Unsure

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

Training Date	Training Name	# Attendance

ae. Brief explanation on Winter Road Management reporting. *If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page*

### Internal (Staff) Education & Communication

af. Has training or education been held for municipal or other personnel involved in implementing each of the pollution prevention program elements?  Yes  No  Unsure

If yes, describe what training was provided (250 character limit):

When:

How many attended:

ag. 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

Municipal Officials

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

ah.

Brief explanation on Internal Education reporting. *If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.*

Board and staff members are educated through the approval process.

## 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 34C0-224 (R8/2021)

## 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 explanation on Storm Sewer System Map reporting. *If you marked Unsure for an question for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.*

Maps are updated when as-builts are created.

## Missing Information

Do not close your work until you SAVE.

Form 3400-224 (R8/2021)

### 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

2001	2300	2300	<u>General revenue fund</u>
174	200	200	<u>Storm water utility</u>

#### Element: Public Involvement and Participation

2001	2300	2300	<u>General revenue fund</u>
174	200	200	<u>Storm water utility</u>

#### Element: Illicit Discharge Detection and Elimination

4359	4600	4600	<u>General revenue fund</u>
380	400	400	<u>Storm water utility</u>

#### Element: Construction Site Pollutant Control

10000	10000	10000	<u>Permit fee and/or deposit/escrow</u>
2500	2500	2500	<u>General revenue fund</u>

#### Element: Post-Construction Storm Water Management

7888	8500	8500	<u>General revenue fund</u>
686	750	750	<u>Storm water utility</u>

#### Element: Pollution Prevention

18420	20000	20000	<u>General revenue fund</u>
1600	1800	1800	<u>Storm water utility</u>

Other (describe)



Do not close your work until you SAVE.

Form 3400-224 (R8/2021)

**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 and Participation
- 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**.

Form 3400-224(R8/2021)

### 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

[MS42022.pdf](#)

#### Attach - Other Supporting Documents

##### AR EO

 File Attachment

[2021PublicEducationOutreach.pdf](#)

##### AR IP

 File Attachment

[public-participation-report1.pdf](#)

##### AR IDDE

 File Attachment

[IDDE.pdf](#)

##### AR WintRdMain

 File Attachment

[SaltUsage.pdf](#)

##### AR LeafYardMgmt

 File Attachment

[MukwonagoV4thQtr2021-Report.pdf](#)

##### AR PP

 File Attachment

[StreetSweepingDisposal.pdf](#)

##### AR MuniSWPPP

 File Attachment

[SWPPP.pdf](#)

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

## Attach - Permit Compliance Documents

### EO Program

 File Attachment

[2.pdf](#)

### IP Program

 File Attachment

[2.pdf](#)

### IDDE Program

 File Attachment

[2.pdf](#)

### CS Program

 File Attachment

[2.pdf](#)

### PCSSW Program

 File Attachment

[2.pdf](#)

### PP BMPInventory

 File Attachment

[BMPInventory2021.pdf](#)

### PP BMPInsp

 File Attachment

[2.pdf](#)

### PP BMPInventory

 File Attachment

[2021NewStormwaterStructures.pdf](#)

(To remove 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 the permittee's governing body or delegated representatives.

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 reviewed by the governing body or delegated representative, return to the MS4 eReporting System to submit the final report to the DNR.



## 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 Mukwonago, Village 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).

**Name:**

**Title:**

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.

Village of Mukwonago  
**2.2 Public Involvement & Participation**  
 2021-2024

Program Description: The Village of Mukwonago maintains membership with the Waukesha County Stormwater Group. It is through this partnership that many Public Involvement and Participation targets are achieved. The below table addresses practices that are completed by the Village, independent of the Waukesha County Stormwater Group.

<b>Topic</b>	<b>Delivery Mechanism</b>	<b>Target Participant</b>	<b>Responsible Party</b>	<b>Target Dates/Frequency</b>
Annual Report	Website Notice, Board Meeting	General public, public employees, residents.	Director of Public Works	Annual
Storm Water Management Program	Website Notice, Board Meeting	General public, public employees, residents.	Director of Public Works	When updates occur.
Storm Water Ordinance Updates/Development	Website Notice, Board Meeting	General public, public employees, residents, businesses, contractors, developers.	Director of Public Works	When updates occur.
Volunteer Activity - Coordinated by Waukesha County Stormwater Group	Various	Various	Waukesha County Stormwater Group	Various
Volunteer Activity - Coordinated by Community Group	Stream Monitoring	General public, residents	Community Group	Annual
Volunteer Activity - Coordinated by local businesses & community groups	Cleanup Event	General public, residents	Local Businesses & Community Groups	Annual

*Note: Per permit section 2.2.4, participants may include general public, public employees, residents, businesses, contractors, developers, industries, and/or other appropriate audience*

Village of Mukwonago  
2.1 Public Education and Outreach  
2021-2024

Program Description: The Village of Mukwonago maintains membership with the Waukesha County Stormwater Group. It is through this partnership that many Public Education and Outreach targets are achieved. The below table addresses practices that are completed by the Village, independent of the Waukesha County Stormwater Group.

Topic No.	Topic	Delivery Mechanism	Target Audience	Responsible Party	Target Date/Frequency
1	<b>Illicit Discharge Detection &amp; Elimination</b> Waukesha County Stormwater Group Activity	Various	Various	Waukesha County Stormwater Group	Various
2	<b>Household Hazardous Waste Disposal/Pet Waste Management/Vehicle Washing</b> Waukesha County Stormwater Group Activity	Various	Various	Waukesha County Stormwater Group	Various
		Host site for Waukesha County Hazardous Waste Recycling Electronics Recycling	Residents Residents	Village Department of Public Works Village Department of Public Works	Annual Annual
3	<b>Yard Waste Management/Pesticide and Fertilizer Application</b> Waukesha County Stormwater Group Activity	Other	Residents	Village Department of Public Works	Annual
4	<b>Stream and Shoreline Management</b> Waukesha County Stormwater Group Activity	Various	Various	Waukesha County Stormwater Group	Various
5	<b>Residential Infiltration</b> Waukesha County Stormwater Group Activity	Various	Various	Waukesha County Stormwater Group	Various
6	<b>Construction Site and Post-Construction Storm Water Management</b> Waukesha County Stormwater Group Activity	Various	Various	Waukesha County Stormwater Group	Various
		Village staff routinely meet with HOA groups and residents regarding stormwater and pond maintenance.	Residents	Village staff	
7	<b>Pollution Prevention</b> Waukesha County Stormwater Group Activity	Workshops	Various	Waukesha County Stormwater Group	Various
8	<b>Green Infrastructure/Low-Impact Development</b> Waukesha County Stormwater Group Activity	Various	General public, residents	Waukesha County Stormwater Group	At least once per permit term
		Pre-Construction Meeting	Businesses, Contractors, Public Employ	Waukesha County Stormwater Group Village Department of Public Works	Various When development occurs

Permit Requirements:

2.1.1 The program has a plan for addressing all 8\* topics in Table 1 at least once during the permit term.

2.1.2 The program has a plan for using at least 4\* delivery mechanisms in Table 2 each year, with at least 2\* from the Active/Interactive column.

- |   |   |
|---|---|
| <p><b>Active/Interactive</b></p> <ul style="list-style-type: none"> <li>• Educational activities (school presentations, summer camps)</li> <li>• Informational booth at event</li> <li>• Targeted group training (contractors, consultants, etc.)</li> <li>• Government event (public hearing, council meeting)</li> <li>• Workshops</li> <li>• Tours</li> <li>• Other</li> </ul> | <p><b>Passive</b></p> <ul style="list-style-type: none"> <li>• Passive print media (brochures at front desk, posters, etc.)</li> <li>• Distribution of print media (mailings, newsletters, etc.) via mail or email</li> <li>• Media offerings (radio and TV ads, press release, etc.)</li> <li>• Social media posts</li> <li>• Signage</li> <li>• Website</li> <li>• Other</li> </ul> |
|---|---|







<b>Delivery Mechanism</b>	<b>Project / Event Name</b>	<b>Event Start Date</b>	<b>Topics Covered</b>	<b>Target Audience</b>	<b>Estimated Reach</b>	<b>Regional Effort</b>
Stream Monitor	WAV	May	Volunteer	General Public	37	yes
Storm Drain Stencil	Adopt a Drain	July	Volunteer	General Public	94	yes
Public Workshop	Green Home	March		General Public	67	yes
Presentation of Stormwater Information	Stormwater Workshop	May		Contractors Developers	154	yes
Presentation of Stormwater Information	Smart Salting Workshop	September		Public Employees	45	yes
Public Workshop	Asian Clam Monitoring	July	Volunteer	General Public	14	yes

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The Village is covered under the Wisconsin Department of Natural Resources' (WDNR) WPDES Municipal Separate Storm Sewer System Permit No. WI-S050075-3, reissued on May 1, 2019. The intent of the MS4 permit program is to minimize the discharge of pollutants into the local lakes, streams and wetlands via the Village's storm water conveyance system. The Village of Mukwonago has been conducting an Illicit Discharge Detection and Elimination (IDDE) program since 2010, when it was first required under the WPDES Municipal Separate Storm Sewer System (MS4) Permit no. WI-S050075-1. After reviewing the Department of Natural Resources' (WDNR) Program Guidance document no. 3800-2012-01 on Illicit Discharge Detection and Elimination programs, the Village revised the original program to focus on areas where problems are more likely to be detected.

The Village of Mukwonago is located within the (IL) Fox River Basin. A Total Maximum Daily Load analysis (TMDL) is currently under development for this basin and is anticipated to be completed in 2023-2025. This TMDL is anticipated to address the Total Suspended Solids (TSS) and phosphorus that is impairing waterways in the basin.

**Administration**

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- The Village Public Works Director will administer the illicit discharge program.
- The Village Fire Chief will administer the spill response program.
- This procedure shall be distributed to all Village employees who may receive notice of a spill or illicit discharge.
- See Chapter 34-113 of the Village Code of Ordinances.

**Emergency Contact Information**

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▪ Emergency Services (police, fire, ambulance)	911
▪ Public Works Director	(262) 363-6447
▪ Village of Mukwonago Fire (non-emergency)	(262) 363-6426
▪ Village of Mukwonago Police (non-emergency)	(262) 363-6435
▪ DNR Hazardous Spill Line	(800) 943-0003
▪ City of Waukesha Fire Department	(262) 524-3651
▪ City of Milwaukee Fire Department	(414) 286-8948
▪ Poison Control Center	(800) 222-1222

**Spill and Illicit Discharge Response Procedure**

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- When Village staff is made aware of a spill or illicit discharge with the potential to contaminate the municipal storm sewer system, the individual receiving the call shall immediately notify the Village Public Works Director. The Village's emergency government director / fire chief following the chain of command found within the Village's emergency government procedure shall also be notified if the spill / illicit discharge is suspected of reaching local waterways. The public works director shall be the primary contact for the spill response program, with the emergency government director / fire chief being the contact for
- Persons in the vicinity of a spill should immediately evacuate the premises (except for employees with training in spill response). If the spill appears hazardous, immediately notify emergency response personnel listed above.
- Consult with the trained hazardous waste personnel for waste disposal procedures and never wash spills into a storm drain.
- Any illicit discharges that are discovered at an outfall shall be traced upstream through the storm sewer system to identify the source of the discharge.
- Action against the violation should be taken as soon as possible. If it will take more than 30 days to remove the illicit connection or if the illicit discharge is from a facility with WPDES permit coverage, the Wisconsin Department of Natural Resources shall be contacted to discuss an appropriate action and/or timeframe for removal.

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- All spills/illicit discharges, regardless of size, should be reported as soon as possible to the public works director and the emergency government director / fire chief (if the spill / discharge is suspected of having reached the local streams, lakes or wetlands). The public works director / emergency government director/fire chief will coordinate clean up with the appropriate trained emergency response personnel.
- All spills shall be reported to the Wisconsin Department of Natural Resources within 24 hours after being made aware of the spill. The emergency government director / fire chief shall coordinate this notification immediately to the Department of Natural Resources if the spill/discharge is suspected of having reached local streams, lakes or wetlands. The 24-hour toll free hot line to report spills to the Department of Natural Resources is **1-800-943-0003**.
- If the spill/illicit discharge reaches a waterway and has the potential to contaminate downstream resources, the emergency government director/fire chief shall immediately notify the officials of the downstream communities that may be impacted by the spill, following the procedure in the emergency government procedure.
- Any dye testing within the Village shall be reported to the Wisconsin Department of Natural Resources in advance of the time and location.
- If an illicit discharge has been tracked upstream to an interconnection point or outfall from another municipality or originates from the Village but discharges directly to a MS4 or property under the jurisdiction of another municipality, the Village shall notify the appropriate municipality within one working day.

**Field Screenings**

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- The Village completed the initial field screening at all major outfalls during dry weather periods. Major outfalls were identified on the official storm sewer map from the Village's Storm Water Management Plan.
- The Village has evaluated the outfalls to be inspected each year through a "priority" designation process based on land use and known storm water outfall concerns.
- The ongoing Illicit Discharge Detection and Elimination Program has been determined based upon the results of the initial field screening and subsequent outfall screenings.
- Any citizen complaint will be investigated with an inspection of the discharge location in question.
- Inspections/field screenings shall be recorded on the Village of Mukwonago Illicit Discharge Field Screening Sheet.

**Action Levels for Sample Parameters**

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- Any samples with results above the minimum threshold for the parameters below shall be traced back to the source to stop the discharge.

<b>Parameters</b>	<b>Action Level</b>	<b>Illicit Sources</b>	<b>Non-Illicit Sources</b>
Ammonia	0.1 mg/l	Sanitary sewage and industrial wastewater	Pets, wildlife and potentially WPDES permitted discharges
Detergents	0.5 mg/l	Industrial cleansers, commercial wash water and sanitary sewage	Residential car washing
pH	Less than 6 or greater than 9	Industrial wastewater and concrete truck wash-out	Groundwater and WPDES permitted discharges
Total Chlorine	Detection or positive test unless associated with a WPDES permitted discharge at	Industrial wastewater, swimming pools and sanitary sewage	WPDES permitted discharges

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<b>Parameters</b>	<b>Action Level</b>	<b>Illicit Sources</b>	<b>Non-Illicit Sources</b>
	background water supply levels		
Total Copper	0.1 mg/l	Copper-based product use and manufacturing	WPDES permitted discharges
Phenol	Detection or positive test	Chemical, textile, paint, resin, tire, plastic, electronics, and pharmaceutical manufacturing	None
Fluoride	Detection above background groundwater or water supply levels	Commercial or industrial wastewaters with a water supply component	Groundwater and WPDES permitted discharges
Potassium	10 mg/l	Sanitary sewage and industrial wastewater	Groundwater and WPDES permitted discharges

**Violations**

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- Whenever Village staff identify a violation of the Illicit Discharge ordinance, the Village may order compliance by written notice of violation to the responsible party.
- Such written notice of violation may require the following without limitation:
  - The elimination of illicit connections or discharges.
  - That violating discharges, practices, or operations shall cease and desist.
  - The abatement or remediation of storm water pollution or contaminated hazards and the restoration of any affected property.
  - Any responsible party that fails to comply with a notice of violation under this section shall be subject to further enforcement action under the enforcement provisions of the Storm Water Management and Erosion Control Enforcement Procedures.

**Enforcement Measures**

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*See Chapter 34-114 of the Village Code of Ordinances.*

- Forfeiture
- Stop Work Order
- Permit Revocation
- Injunction
- Declared Nuisances
- Emergency Action
- Citation

**Priority Outfalls**

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The Village of Mukwonago has revised the original Illicit Discharge Detection and Elimination (IDDE) program to focus on areas where problems are more likely to be detected. Department of Natural Resources' (WDNR) Program Guidance document no. 3800-2012-01 on Illicit Discharge Detection and Elimination programs has been used to develop the current IDDE program.

The Village's revised IDDE program breaks down the MS4 outfalls into 3 inspection categories:

1. Priority Outfalls to be inspected annually,
2. Non-Priority Major Outfalls to be inspected once per 5-year permit term,

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3. Non-Priority Minor Outfalls to be inspected on a complaint basis or based on professional judgement of staff (not in the regular inspection rotation).

**Location of MS4 Priority Outfalls to be Inspected Annually**

	<b>Structure ID</b>	<b>Inspection Category</b>	<b>Outfall Size (Inches)/ Grass Swale</b>	<b>Outfall Location</b>
1	ST224001	Priority (Major)	36"	W end of Roberts Rd., N side of sidewalk SE of High School
2	ST234001	Priority (Major)	72"	SW corner of pond W of 370 CTH NN
3	GSOFO02	Priority (Major)	Grass Swale	E of Holz Pkwy, SW corner of L'BRI Pure n' Natural property
4	GSOFO04	Priority (Major)	Grass Swale	E of Holz Pkwy, NW of Empire. SW edge of wood line
5	ST252001	Priority (Major)	48"	SW corner of property at 100 McKenzie Dr.
6	ST252002	Priority (Major)	36"	W side of Driveway SW of BMO Harris Bank
7	ST264001	Priority (Minor)	27"	S of Plank Rd. dead end, W of railroad tracks
8	ST271005	Priority (Minor)	16"	S of Minors Dr., between 705 & 647 Minors Dr.
9	ST271006	Priority (Minor)	16"	E outfall, S of Minors Dr., between 647 & 633 Minors Dr.
10	ST271007	Priority (Minor)	24"	W outfall, S of Minors Dr., between 647 & 633 Minors Dr.
11	ST271008	Priority (Minor)	36"	S of Minors Dr., between 609 & 603 Minors Dr.
12	ST351002	Priority (Major)	36"	S of S. Rochester Rd. on the SW side of the railroad bridge.
13	ST351008	Priority (Minor)	22"	N of River Crest Ct. between NAPA Auto Parts and Village Hall
14	ST361001	Priority (Minor)	24"x38"	N of Maple Ave, between E Wolf Run and 240 Maple Ave.
15	ST361003	Priority (Major)	48"x76"	SE side of East Wolf Run across from Walmart
16	ST011055	Priority (Minor)	16"	Boxhorn Dr & Rochester, South of Touchpad Electronics/MS2I Holdings
17	ST011078	Priority (Major)		Boxhorn Dr & Rochester St, SE corner of Banker Wire
18	ST011103	Priority (Major)	36"	Boxhorn Dr & Hill Cr, Super Products West Outfall
19	ST011102	Priority (Minor)	24"	Boxhorn Dr. & Hill Ct, Super Products
20	ST011101	Priority (Minor)	36"	Boxhorn Dr & Rochester, Triple Crown Prod/Quernemoen Mukwonago LLC
21	ST011014	Priority (Major)	36"	Boxhorn & Rochester, Nearest outfall to HWY 83

**Location of Non-Priority Major Outfalls to be Inspected  
 Once Per 5 – Year MS4 Permit Term**

	<b>Structure ID</b>	<b>Inspection Category</b>	<b>Outfall Size/ Grass Swale</b>	<b>Outfall Location</b>
1	GSOFO01	Major	Grass Swale	SW corner of Holz Pkwy & Fox St. S of Fox St.
2	GSOFO03	Major	Grass Swale	SE corner of 941 Perkins Dr., property
3	ST193001	Major	12"	S of Edgewood Ave., just W of the Edgewood Greenhouse driveway

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4	ST194001	Major	36"	S of Grey Fox Trail and Cardinal Ct. intersect, N side of pond.
5	ST224002	Major	21"	SE corner of W School Rd. CTH NN intersection
6	ST232001	Major	30"	Behind Mukwonago Family Dental, S side of the pond.
7	ST243002	Major	30"	N of CTH NN, between CTH ES & River Park Circle W
8	ST251006	Major	30"	E of Eastern Trail, between 450 & 446 Eastern Trail
9	ST254001	Major	48"x36"	E of the East Wolf Run turnaround.
10	ST254002	Major	36"	SE of East Wolf Run, NW corner of the pond.
11	ST262001	Major		In the woods toward the SE corner of baseball diamonds on CTH LO
12	ST263001	Major	48"	S side of Wahl Ave., just before the circle turn around
13	ST263005	Major	24"	N outfall, W of Atkinson St. & Shore Dr. Intersection
14	ST272001	Major	24"	S side of the pond, behind 622 Augusta Dr.
15	ST272002	Major	42"	N side of the pond, behind 734 Pinehurst Dr.
16	ST272006	Major	42"	SW corner of 517 Valhalla Dr. property
17	ST352001	Major	42"	W of Bay View Ct.
18	ST353009	Major	36"	W side of Main St., at the Honeywell Rd. & Main St. intersection
19	ST354005	Major		W Mukwonago Dr. Apollo Ct. intersect. W of Mukwonago Dr.
20	ST361002	Major	56"	SE of East Wolf Run, SW corner of the pond.
21	ST363002	Major	66"	S outfall, E side of STH 83, 415' S of E. Wolf Run & 83 Intersection
22	ST363003	Major	66"	N outfall, E side of STH 83, 415' S of E. Wolf Run & 83 Intersection
23	ST363008	Major	36"	S side of the pond, S of Wolf Run

Criteria used to designate an outfall as a "Priority" included: land-use (industrial / business parks, institutional, retail/commercial, transportation), amount of imperviousness in a drainage area, age and density of residential areas, and approximate age of infrastructure. The Village of Mukwonago has experienced new development and redevelopment growth in the past 2 decades, with new or replaced infrastructure which minimizes the potential for illicit discharges due to older or failing infrastructure. Major outfalls in these new or redeveloped areas were not included in the priority outfall category.

Village staff previously found one discharge that required follow-up under the previous IDDE program since 2010. The discharge was sampled at outfall GSOFO02 ("H"). Outfall GSOFO02 ("H") has been included as a priority outfall and will be inspected annually by Village staff.

The remainder of the MS4 outfalls in the Village of Mukwonago are categorized as "minor": pipe sizes of less than 36 inches in diameter associated with a drainage area of less than 50 acres or an industrial land use of less than 2 acres. These outfalls will not fall into the annual or once every 5 years' inspection rotation but may be inspected if a complaint is received or if circumstances change and Village staff determine it would be beneficial to inspect any of these locations.

A portion of the Village's roadside stormwater conveyance system includes grass swales. Swale systems can be inspected by visual observations for dead vegetation due to excessive standing water or pollutants in discharges that would kill the vegetation; staining on pipes and structures that drain to the swales, staining

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or water marks on culverts in swales, etc. Visual observations of the swale systems should be done on a complaint basis or as staff determine necessary.

### **Cross Connection Program**

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As part of the Village's overall storm water management and pollutant reduction efforts, a program to address potential cross connections between sewer systems and the municipal storm water conveyance system has been developed to minimize the potential discharges of bacteria and related pathogens into local surface waters. This cross-connection program includes three components:

1. Identification and evaluation of potential cross connection areas
2. Follow-up response procedures when a situation is discovered and/or a complaint is received.
3. Education and outreach efforts related to the discharge of bacteria into local surface waters via the municipal storm water conveyance system

### **Sanitary Sewer Infiltration into Storm Water Conveyance Systems**

Traditional cross connection programs have addressed the issue of pollutants from sewer systems getting into drinking water systems. Capacity, Management, Operation, and Maintenance (CMOM) programs exist in many communities to reduce the amount of storm water and groundwater from entering the sanitary sewer systems. These programs have been in place for many years, with common activities including inspections, plumbing code updates, education and outreach efforts to the general public, industry specialists and inspectors, and community leaders.

This new aspect of discharges resulting from cross connections concerns the discharge of sewer water into municipal separate storm sewer systems, which then discharge directly to the downstream receiving waterways. Municipal storm water conveyance systems do not typically have treatment systems to remove pollutants, particularly bacteria. Therefore, the focal point of this type of cross connection program is source identification and control.

Examples of sources of cross connections between sewer systems and storm water systems include old and deteriorating sewer system infrastructure, resulting in discharges that may seep into storm sewer conveyance systems. Leaky sewer lines located in areas of seasonal high groundwater may not always discharge into nearby storm sewers during the year but may result in some discharges when the groundwater table is highest after snow melt and during spring rains, allowing accumulated pollutants underground to mobilize and enter storm sewer systems. In addition, frequent rain events and flooding may also result in higher than normal groundwater levels or flood waters carrying incidental sewer system discharges into the storm water system and downstream receiving waters. Elevation differences resulting in areas of a community that are higher or uphill of other areas can also lead to the infiltration of sewer water into storm sewer systems. Older, deteriorating public sewer lines or private sewer laterals that are located in uphill areas can potentially lead to accumulated pollutants located underground infiltrating into the storm sewers downgradient from the older, leaking sanitary sewers. Additional sources of potential site-specific sewer system discharges into the municipal separate storm sewer system include incorrect connections made during construction or reconstruction projects and underground septic systems.

The Village of Mukwonago's municipal separate storm sewer system (MS4) is comprised of both vegetated swales along roadsides and curb and gutter with underground pipe to convey storm water safely downstream.

A vegetated swale system typically allows for infiltration of storm water runoff during normal rain events. This allows pollutants carried in storm water runoff to soak into the underlying soils, preventing these

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pollutants from reaching the downstream lakes, streams and wetlands. Large rain events resulting in localized flooding or high groundwater tables may result in deteriorating sewer infrastructure discharges into the vegetated swale systems. Site observations and follow-up of complaints of visual and odor evidence of these discharges may result in the identification of sources of sewer-storm water system cross connections.

A curb and gutter system with storm pipe underground will allow storm water to flow into inlets along the curbs, then into a network of underground storm pipe consisting of many different sizes, ages, and conditions. As part of a municipal separate storm sewer system, storm water discharges from these storm pipes to local streams, lakes and wetlands, often without flowing through a treatment system first. Privately owned storm sewer under parking lots and private roads also drain into the Village's storm sewer system. Older, deteriorating storm pipe may have cracks or damage, or may have gaps where sections of pipe have moved apart from each other over time. Non-storm water flows can enter storm pipe in these damaged areas, resulting in pollutants mixing with storm water flows and impacting local waterways.

Identification and Evaluation of Potential Cross Connection Areas

A desktop analysis of the sewer systems that could potentially leak into the nearby municipal storm water conveyance system can identify sites in the Village of Mukwonago to be evaluated further for potential infiltration of sanitary sewer discharges into the Village's storm sewer system. Information including locations and depths of sanitary sewer and storm sewer systems, local topography, drainage areas and outfall locations of the storm sewer systems and known shallow groundwater elevations can be interpreted to identify potential areas of cross connections or underground discharges to the storm sewer system.

Routine sanitary sewer inspections may include dye testing, smoke testing, flow monitoring televising, and/or the use of other sensors and technology to get identify and locate potential pipe defects in the sewer system. Results of sanitary sewer system inspections, particularly deteriorating or damaged pipe segments, should be shared between wastewater facility staff and public works staff to evaluate the potential for infiltration into the nearby storm water conveyance system. New information on damaged sewer segments and potential sewer repair improvements may lead to discovery of infiltration into storm systems via desktop review, as discussed above.

Areas identified in a desktop review as potential cross connection areas should be observed for potential sewer-to-storm water system connections after larger rain events and during seasonal high groundwater levels, typically during spring and early summer through IDDE outfall inspections and results of sanitary sewer and/or storm sewer inspections. Inspections of existing storm pipe segments for staining, flows and odors that could be associated with improper sewer connections and leaky underground septic systems should be completed in association with the Village's Illicit Discharge Detection and Elimination (IDDE) screening program. Further investigation may include dye testing in the sanitary sewer during periods of wet weather/high ground water to determine if/where dye water shows up in surface waters and televising storm sewer in areas in proximity to potential sewer leaks. Solutions to discovered cross connections and infiltration into the storm system may include sewer lining projects, disconnections or repairs of privately owned sewer laterals and sumps, and other sewer system and/or storm system repairs, depending on the site and the situation.

Proposed Response Procedures for Potential Sewer-Storm Water Cross Connections

Inclusion of activities to address sewer system discharges into storm water systems and ultimately local lakes, streams and wetlands can be incorporated into the Village's existing IDDE program. The IDDE program response procedures include sampling of flows observed at storm water outfalls as a result of periodic inspections or complaints. Results of the sampling and an analysis of the contributing drainage area help to identify the potential source of the pollutants. The Village of Mukwonago's existing Illicit Discharge Detection and Elimination ordinance provides structure and enforcement authority for the Village to require resolution to observed discharges to the municipal separate storm sewer system, including suspected cross connections or discharges from the sanitary sewer system. Cooperation between Village



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wastewater treatment facility and public works (storm water) staff will be an important component in the successful implementation of this program.

Education and Outreach Efforts relating to Sewer-Storm Water System Cross Connections

An education and outreach program describing the contributors to and impacts of excessive bacteria and other pollutant pollution to the local lakes, streams and wetlands should be developed and conducted throughout the Village. Target audiences for this storm water education topic include residents, private property owners, industry specialists and inspectors, including those in the plumbing and underground infrastructure inspection industries, and community leaders, decision makers and elected officials. Cost-effective, uniform messaging for this topic will most likely be achieved through development of a multi-agency/municipality outreach program. Current partners for the Village of Mukwonago to collaborate with may include partners in Waukesha County' Stormwater Education Program. A cooperative effort to share uniform information on the impacts of sanitary sewers and bacteria/pollutant inflows into the storm water system and the local waterways would be a cost-effective and efficient way for local communities to implement their MS4 permits.

## Work Order Form

<b>ID</b>	10122111310	<b>Logged By</b>	Ron Bittner	10/12/2021 03:44 PM	<b>Status</b>	Open	<b>Priority</b>	1
<b>Service Request</b>	101221113	<b>Type</b>	General		<b>Begin Date / Time</b>	10/12/2021 08:00 AM		
<b>Activity Description</b>	Illicit Discharge				<b>End Date / Time</b>	02/08/2022 03:14 PM		
<b>Location</b>	Holz Pkwy				<b>Due Date / Time</b>			
<b>Assigned To</b>	Ron Bittner	<b>Department</b>	Public Works					
<b>Description</b>	2021 ILL INSP							
<b>Group</b>	Pond/BMP							

**Structure Number**

GSOFO04

**Inspection Date**

10/18/2021

**Investigator**

Ron Bittner

**Form Completed By**

Ron Bittner

**Inspection Time**

12:19 PM

**Subwatershed**

Mukwonago

**DATA**

**Temperature**

70

**Rainfall in Last 24 hrs**

0

**Rainfall in Last 48 hrs**

0

**Land Use in Drainage Area**

Industrial

**Nearest Intersection**

Holz Pkwy & Swan Dr.

**OUTFALL DESCRIPTION**

**Closed Pipe/Open Drainage**

Closed

Open

**Material**

Concrete

**Shape**

Round

**Submerged**

Yes

No

**Flow Description**

Trickle

**Depth**

FT

**Length**

FT

**Width**

FT

**Flow Present**

Yes

No

**Time of Travel**

SEC

**Time to Fill**

SEC

**Total Flow Volume**

CU FT

**PHYSICAL INDICATORS**

**Odor**

**Color**

**Turbidity**

**Floatables**

⑤

Odor Description

⑤

Color Description

⑤

Turbidity Description

⑤

Floatables Description

Other Description

Outfall Damage

⑤

Outfall Damage Description

Deposits

⑤

Deposits Description

Abnormal Vegetation

⑤

Abnormal Vegetation Desc.

Poor Pool Quality

⑤

Poor Pool Quality Description

Other Description

LAB

Sample Collected

Yes  No

Collected From

Flow  Pool

Sample Temperature

Sample pH

Ammonia

 mg/l

Copper

 mg/l

Chlorine

 mg/l

Phenols

 mg/l

Surfactants

 mg/l

Detergents

 mg/l

Total Coliform

Positive  Negative

Lab Notes



## Work Order Form

<b>ID</b>	10122111304	<b>Logged By</b>	Ron Bittner	10/12/2021 03:44 PM	<b>Status</b>	Closed	<b>Priority</b>	1
<b>Service Request</b>	101221113	<b>Type</b>	General		<b>Begin Date / Time</b>	10/12/2021 08:00 AM		
<b>Department</b>	Public Works		<b>End Date / Time</b>	02/08/2022 03:07 PM				
<b>Activity Description</b>	Group		Pond/BMP		<b>Due Date / Time</b>			
Illicit Discharge								
<b>Location</b>	Valhalla Dr.							
<b>Assigned To</b>	Ron Bittner		10/12/2021 03:44 PM		<b>Closed By</b>	Ron Bittner		<b>Date Closed</b>
<b>Description</b>	2021 ILL INSP							
					02/24/2022 10:51 AM			

**Structure Number**

ST272006

**Inspection Date**

10/28/2021

**Investigator**

Ron Bittner

**Form Completed By**

Ron Bittner

**Inspection Time**

02:58 PM

**Subwatershed**

Mukwonago

**DATA**

**Temperature**

49

**Rainfall in Last 24 hrs**

0

**Rainfall in Last 48 hrs**

0

**Land Use in Drainage Area**

Residential

**Nearest Intersection**

Valhalla Dr. & Augusta Dr.

**OUTFALL DESCRIPTION**

**Closed Pipe/Open Drainage**

**Material**

Concrete

**Shape**

Round

**Submerged**

Yes  No

**Flow Description**

Trickle

**Depth**

FT

**Length**

FT

**Width**

FT

**Flow Present**

Yes  No

**Time of Travel**

SEC

**Time to Fill**

SEC

**Total Flow Volume**

CU FT

**PHYSICAL INDICATORS**

**Odor**

**Color**

**Turbidity**

**Floatables**

⑤



⑤

⑤

**Odor Description**

**Color Description**

**Turbidity Description**

**Floatables Description**

**Other Description**

**Outfall Damage**

⑤

**Deposits**

⑤

**Abnormal Vegetation**

⑤

**Poor Pool Quality**

⑤

**Outfall Damage Description**

**Deposits Description**

**Abnormal Vegetation Desc.**

**Poor Pool Quality Description**

**Other Description**

**LAB**

**Sample Collected**

Yes  No

**Collected From**

Flow  Pool

**Sample Temperature**

**Sample pH**

**Ammonia**

 mg/l

**Copper**

 mg/l

**Chlorine**

 mg/l

**Phenols**

 mg/l

**Surfactants**

 mg/l

**Detergents**

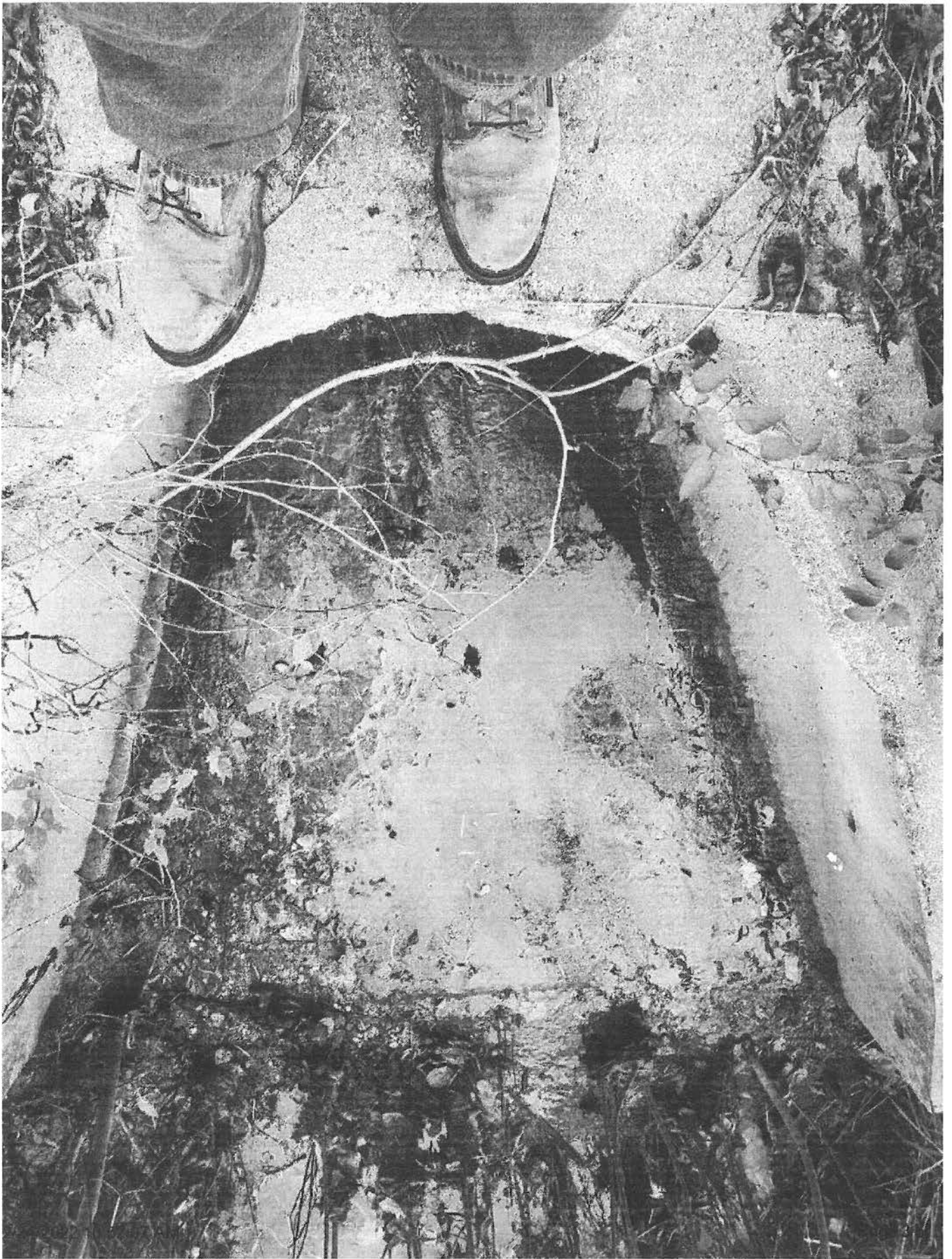
 mg/l

**Total Coliform**

Positive  Negative

**Lab Notes**

Flow traced back to a sump pump discharge on Brockway Drive. The actual reading was 0.758. Discussed finding with Samantha and retested the location on 11/2/21 with a reading of 0.7 and again on 2/24/22 with a reading of 0.72.



## Work Order Form

<b>ID</b>	10122111314	<b>Logged By</b>	Ron Bittner	10/12/2021 03:44 PM	<b>Status</b>	Open	<b>Priority</b>	1
<b>Service Request</b>	101221113	<b>Type</b>	General		<b>Begin Date / Time</b>	10/12/2021 08:00 AM		
<b>Activity Description</b>	Illicit Discharge				<b>End Date / Time</b>	02/08/2022 03:10 PM		
<b>Location</b>	S. Rochester St				<b>Due Date / Time</b>			
<b>Assigned To</b>	Ron Bittner	<b>Department</b>	Public Works					
<b>Description</b>	2021 ILL INSP							
<b>Group</b>	Pond/BMP							

**Structure Number**

ST351002

**Inspection Date**

10/20/2021

**Investigator**

Ron Bittner

**Form Completed By**

Ron Bittner

**Inspection Time**

**Subwatershed**

Mukwonago

**DATA**

**Temperature**

71

**Rainfall in Last 24 hrs**

0

**Rainfall in Last 48 hrs**

0

**Land Use in Drainage Area**

Commercial, Institutional, residential

**Nearest Intersection**

S. Rochester St & Front St.

**OUTFALL DESCRIPTION**

**Closed Pipe/Open Drainage**

Closed Pipe  Open Drainage

**Material**

Concrete

**Shape**

Round

**Submerged**

Yes  No

**Flow Description**

Trickle

**Depth**

FT

**Length**

FT

**Width**

FT

**Flow Present**

Yes  No

**Time of Travel**

SEC

**Time to Fill**

SEC

**Total Flow Volume**

CU FT

**PHYSICAL INDICATORS**

**Odor**

**Color**

**Turbidity**

**Floatables**



⑤

☰

⑤

⑤

**Odor Description**

**Color Description**

**Turbidity Description**

**Floatables Description**

**Other Description**

**Outfall Damage**

⑤

**Deposits**

⑤

**Abnormal Vegetation**

⑤

**Poor Pool Quality**

⑤

**Outfall Damage Description**

**Deposits Description**

**Abnormal Vegetation Desc.**

**Poor Pool Quality Description**

**Other Description**

**LAB**

**Sample Collected**

Yes  No

**Collected From**

Flow  Pool

**Sample Temperature**

**Sample pH**

**Ammonia**

 mg/l

**Copper**

 mg/l

**Chlorine**

 mg/l

**Phenols**

 mg/l

**Surfactants**

 mg/l

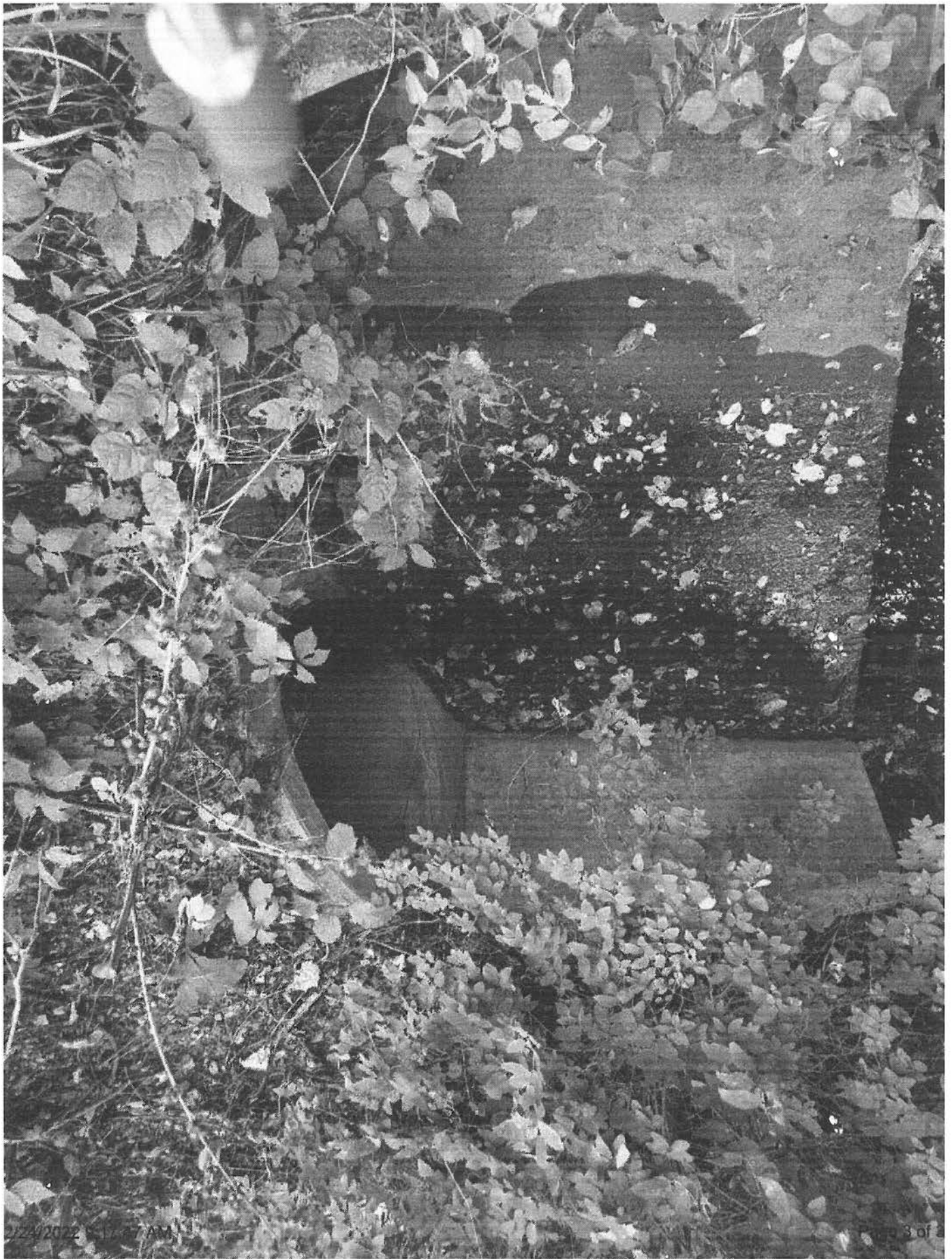
**Detergents**

 mg/l

**Total Coliform**

Positive  Negative

**Lab Notes**



## Work Order Form

<b>ID</b>	10122111312	<b>Logged By</b>	Ron Bittner	10/12/2021 03:44 PM	<b>Status</b>	Open	<b>Priority</b>	1
<b>Service Request</b>	101221113	<b>Type</b>	General		<b>Begin Date / Time</b>	10/18/2021 11:52 AM		
		<b>Department</b>	Public Works		<b>End Date / Time</b>	02/08/2022 03:10 PM		
<b>Activity Description</b>		<b>Group</b>	Pond/BMP		<b>Due Date / Time</b>			
Illicit Discharge								
<b>Location</b>	Mckenzie Rd							
<b>Assigned To</b>	Ron Bittner		10/12/2021 03:44 PM					
<b>Description</b>	2021 ILL INSP							

**Structure Number**

ST252001

**Inspection Date**

10/18/2021

**Investigator**

Ron Bittner

**Form Completed By**

Ron Bittner

**Inspection Time**

11:59 AM

**Subwatershed**

Mukwonago

**DATA**

**Temperature**

70

**Rainfall in Last 24 hrs**

0

**Rainfall in Last 48 hrs**

0

**Land Use in Drainage Area**

Industrial, residential

**Nearest Intersection**

MacKenzie Rd & Perkins Dr.

**OUTFALL DESCRIPTION**

**Closed Pipe/Open Drainage**



**Material**

Concrete

**Shape**

Elliptical

**Submerged**



Yes

No

**Flow Description**

Trickle

**Depth**

FT

**Length**

FT

**Width**

FT

**Flow Present**

Yes



No

**Time of Travel**

SEC

**Time to Fill**

SEC

**Total Flow Volume**

CU FT

**PHYSICAL INDICATORS**

**Odor**

**Color**

**Turbidity**

**Floatables**

⑤

☐

⑤

⑤

**Odor Description**

**Color Description**

**Turbidity Description**

**Floatables Description**

**Other Description**

**Outfall Damage**

⑤

**Deposits**

⑤

**Abnormal Vegetation**

⑤

**Poor Pool Quality**

⑤

**Outfall Damage Description**

**Deposits Description**

**Abnormal Vegetation Desc.**

**Poor Pool Quality Description**

**Other Description**

**LAB**

**Sample Collected**

Yes  No

**Collected From**

Flow  Pool

**Sample Temperature**

**Sample pH**

**Ammonia**

 mg/l

**Copper**

 mg/l

**Chlorine**

 mg/l

**Phenols**

 mg/l

**Surfactants**

 mg/l

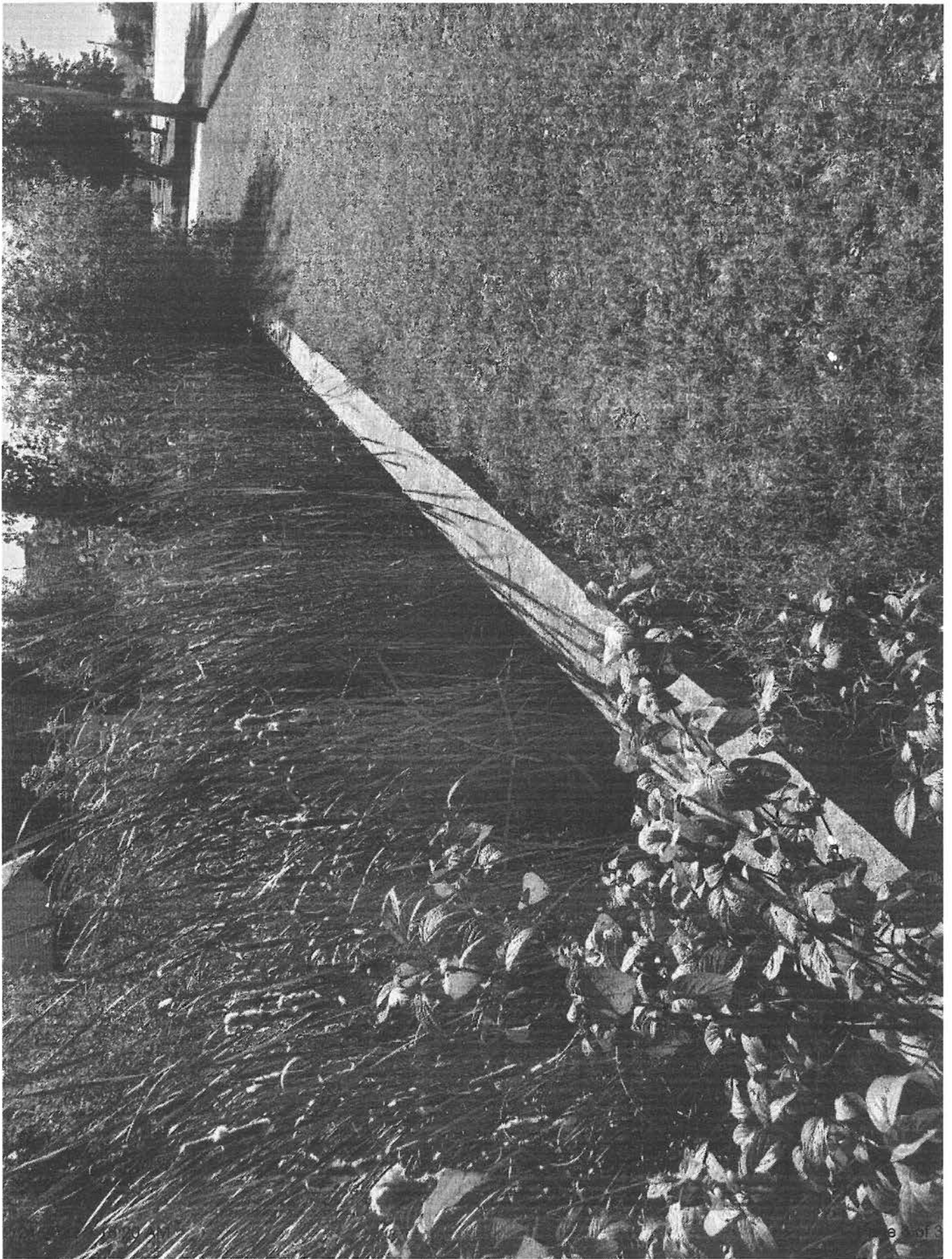
**Detergents**

 mg/l

**Total Coliform**

Positive  Negative

**Lab Notes**



## Work Order Form

<b>ID</b>	10122111311	<b>Logged By</b>	Ron Bittner	10/12/2021 03:44 PM	<b>Status</b>	Open	<b>Priority</b>	1
<b>Service Request</b>	101221113	<b>Type</b>	General		<b>Begin Date / Time</b>	<b>End Date / Time</b>		
		<b>Department</b>	Public Works		10/12/2021 08:00 AM	02/08/2022 03:09 PM		
<b>Activity Description</b>		<b>Group</b>	Pond/BMP		<b>Due Date / Time</b>			
Illicit Discharge								
<b>Location</b>	1981 Holz Pkwy.							
<b>Assigned To</b>	Ron Bittner			10/12/2021 03:44 PM				
<b>Description</b>	2021 ILL INSP							

**Structure Number**

GSOFO02

**Inspection Date**

10/18/2021

**Investigator**

Ron Bittner

**Form Completed By**

Ron Bittner

**Inspection Time**

12:07 PM

**Subwatershed**

Mukwonago

**DATA**

**Temperature**

70

**Rainfall in Last 24 hrs**

0

**Rainfall in Last 48 hrs**

0

**Land Use in Drainage Area**

Industrial

**Nearest Intersection**

Holz Pkwy. & Perkins Dr.

**OUTFALL DESCRIPTION**

**Closed Pipe/Open Drainage**

**Material**

Concrete

**Shape**

Elliptical

**Submerged**

Yes  No

**Flow Description**

**Depth**

FT

**Length**

FT

**Width**

FT

**Flow Present**

Yes  No

**Time of Travel**

SEC

**Time to Fill**

SEC

**Total Flow Volume**

CU FT

**PHYSICAL INDICATORS**

**Odor**

**Color**

**Turbidity**

**Floatables**

⑤

**Odor Description**



**Color Description**

⑤

**Turbidity Description**

⑤

**Floatables Description**

**Other Description**

**Outfall Damage**

⑤

**Outfall Damage Description**

**Deposits**

⑤

**Deposits Description**

**Abnormal Vegetation**



**Abnormal Vegetation Desc.**

**Poor Pool Quality**

⑤

**Poor Pool Quality Description**

**Other Description**

**LAB**

**Sample Collected**

Yes  No

**Collected From**

Flow  Pool

**Sample Temperature**

**Sample pH**

**Ammonia**

 mg/l

**Copper**

 mg/l

**Chlorine**

 mg/l

**Phenols**

 mg/l

**Surfactants**

 mg/l

**Detergents**

 mg/l

**Total Coliform**

Positive  Negative

**Lab Notes**



4/2022 9:18:51 AM



## Work Order Form

<b>ID</b>	1012211320	<b>Logged By</b>	Ron Bittner	10/12/2021 03:44 PM	<b>Status</b>	Closed	<b>Priority</b>	1
<b>Service Request</b>	101221113	<b>Type</b>	General		<b>Begin Date / Time</b>	10/12/2021 08:00 AM		
		<b>Department</b>	Public Works		<b>End Date / Time</b>	02/08/2022 03:12 PM		
<b>Activity Description</b>		<b>Group</b>	Pond/BMP		<b>Due Date / Time</b>			
Illicit Discharge								
<b>Location</b>	155 Dewey Dr.							
<b>Assigned To</b>	Ron Bittner		10/12/2021 03:44 PM		<b>Closed By</b>	Ron Bittner		
<b>Description</b>	2021 ILL INSP							
					<b>Date Closed</b>	02/24/2022 09:14 AM		

**Structure Number**

ST363008

**Inspection Date**

10/28/2021

**Investigator**

Ron Bittner

**Form Completed By**

Ron Bittner

**Inspection Time**

08:22 AM

**Subwatershed**

Mukwonago

**DATA**

**Temperature**

48

**Rainfall in Last 24 hrs**

0

**Rainfall in Last 48 hrs**

0

**Land Use in Drainage Area**

Industrial

**Nearest Intersection**

S. Rochester St. & Dewey Dr.

**OUTFALL DESCRIPTION**

**Closed Pipe/Open Drainage**



**Material**

Concrete

**Shape**

Round

**Submerged**

Yes



No

**Flow Description**

Trickle

**Depth**

FT

**Length**

FT

**Width**

FT

**Flow Present**

Yes

No

**Time of Travel**

SEC

**Time to Fill**

SEC

**Total Flow Volume**

CU FT

**PHYSICAL INDICATORS**

**Odor**

**Color**

**Turbidity**

**Floatables**

⑤

☐

⑤

⑤

**Odor Description**

**Color Description**

**Turbidity Description**

**Floatables Description**

**Other Description**

**Outfall Damage**

⑤

**Deposits**

⑤

**Abnormal Vegetation**

⑤

**Poor Pool Quality**

⑤

**Outfall Damage Description**

**Deposits Description**

**Abnormal Vegetation Desc.**

**Poor Pool Quality Description**

**Other Description**

**LAB**

**Sample Collected**

☑ Yes    ☒ No

**Collected From**

☑ Flow    ☒ Pool

**Sample Temperature**

**Sample pH**

**Ammonia**

 mg/l

**Copper**

 mg/l

**Chlorine**

 mg/l

**Phenols**

 mg/l

**Surfactants**

 mg/l

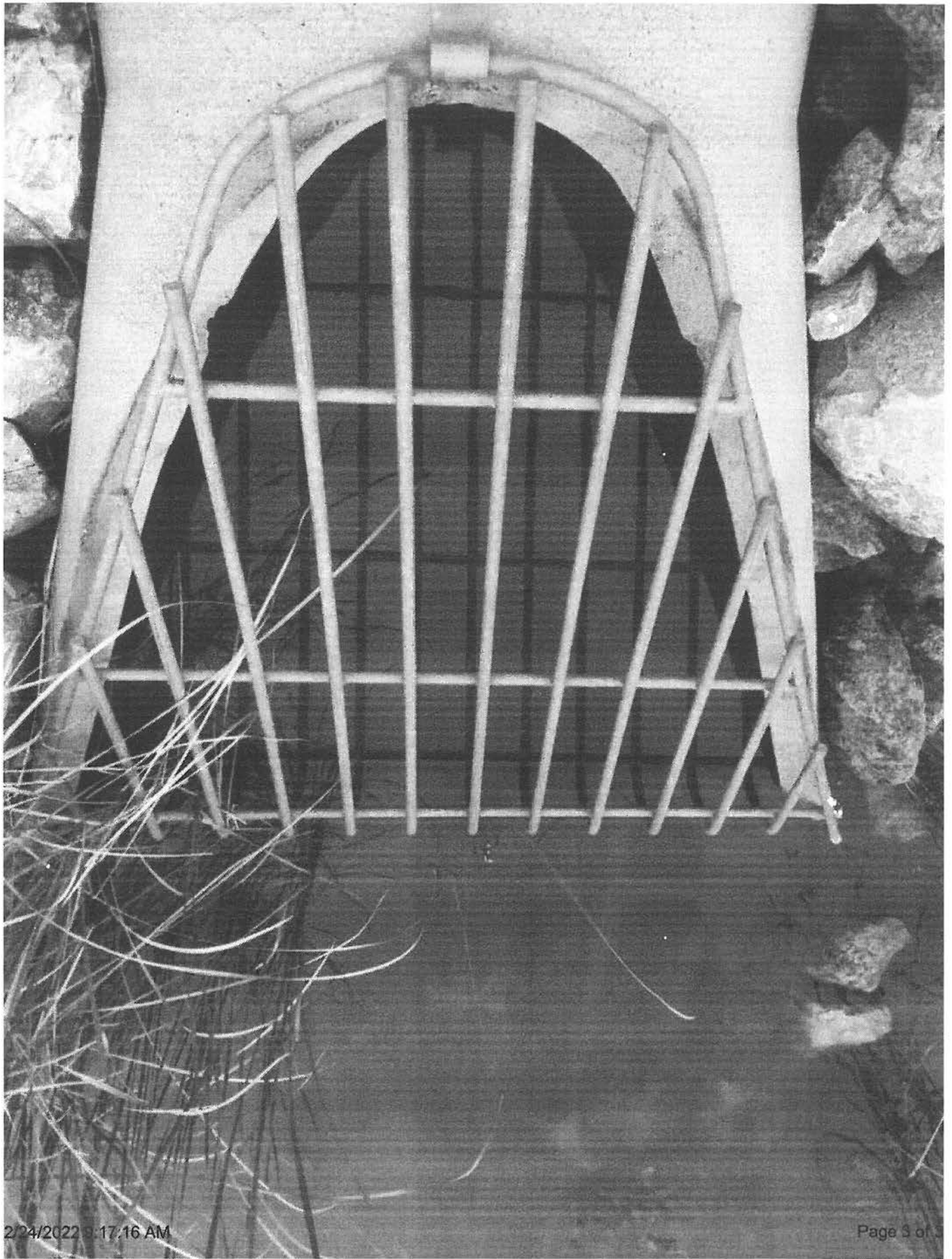
**Detergents**

 mg/l

**Total Coliform**

☒ Positive    ☑ Negative

**Lab Notes**



## Village of Mukwonago

### 2.4 Construction Site Pollutant Control Program

March 2021

The Village of Mukwonago's Construction Site Pollutant Control Program aims to minimize the amount of total suspended solids (TSS) and other associated pollutants that enter local lakes, streams and wetlands as a result of construction site land disturbance over one acre. The Village has adopted ordinances which dictate the site plan requirements for new and redevelopment sites (Ch. 34-107 through 34-114).

#### **Permit Process, Administrative Procedures, & Erosion and Sediment Control Plan Review**

When an application for construction or reconstruction with over one acre of land disturbance is received by Village staff, the Village Engineer follows the processes outlined in Checklist A. Preconstruction erosion control plan review is completed by the Village Engineer (Checklists 1, 2, and B).

#### **Inspections**

Site inspections occur at the frequency listed in Table 1.

**Table 1.**

Site	Inspection Frequency
(1) All sites one acre or more in size	• New projects shall be inspected within the first two weeks of commencement of land disturbing activity.
	• All active sites shall be inspected at least once every 45 days
	• All inactive sites shall be inspected at least once every 60 days.
(2) Follow up inspection	• Follow up inspections are required within 7 days of any sediment discharge or inadequate control measure, unless corrections were made and observed by the inspector during initial inspection or corrections were verified via photographs submitted to the inspector.
(3) Final inspection	• Confirm that all graded areas have reached final stabilization and that all temporary control measures are removed, and permanent storm water management BMPs are installed as designed.

#### **Complaints & Enforcement**

Complaints relating to construction site pollution are handled promptly. Village staff visit the site and utilize the Enforcement Procedure Flowchart (attached) when necessary.

#### **Attachments**

Checklist 1

Checklist 2

Checklist A

Checklist B

Erosion Control Enforcement Procedure Flowchart



## Checklist #1 Site Plan Map Requirements Erosion Control Plan Requirements For All Sites

All items on this list are required for all Erosion Control and Storm Water Management Permit Applications. Additional items must be shown on erosion control plans for sites that disturb 1 Acre or more (see Checklist #2) and storm water management plans (see Checklist #3). A site plan map and supporting data of site conditions at a scale of 1 inch equals no more than 100 feet (unless otherwise noted) shall delineate or display the following applicable items.

The following existing and proposed site features must be provided for all permit applications. Items listed below must be shown on the site and within an appropriate distance in each direction of the site boundaries.

- 1. Development title, graphic scale and north arrow;
- 2. Property location description by public land survey system (1/4 section, section, township, range, county);
- 3. Location map (smaller scale) showing the site location within a public land survey section or subdivision, oriented the same as par. 4 below;
- 4. Ownership boundaries, bearings, lengths and other survey references that will accurately identify the site location for all land divisions;
- 5. Lot numbers and dimensions, including outlots for all land divisions;
- 6. Name and complete **contact information** for the applicant, landowner, developer and project engineer or planner;
- 7. Surveyor's certificate, signed, dated and sealed for all land divisions;
- 8. Sheet numbers and **revision dates** on every page;
- 9. Existing **site topography** at a contour interval not to exceed 2 feet, including **spot elevations** for physical features such as storm sewers (invert elevations), retaining walls, road and ditch centerlines and topographic high and low points;
- 10. Location and name, if applicable, of all lakes, streams, channels, ditches and other **water bodies** or areas of **channelized flow** on or adjacent to the site;
- 11. Location and name, if applicable, of all **wetlands** and identification of source of delineation. For final land divisions, these boundaries shall be field verified;
- 12. Boundaries of **shoreland zones** and the ordinary high water mark (OHWM) for any navigable water body. For final land divisions, the OHWM boundaries shall be field verified;
- 13. Boundaries and elevation of the **100-year floodplains, flood fringes and floodways**. For final land divisions, these boundaries and elevations shall be field verified.
- 14. Boundaries and soil symbol for each **soil mapping unit** and the identification of all **hydric soils** and defined by the USDA-Natural Resources Conservation Service;
- 15. Locations of all soil borings and **soil profile evaluations** with unique references to supplemental data report forms;
- 16. Location of **primary and secondary environmental corridors**, as defined by the Southeastern Wisconsin Regional Planning Commission. For final land divisions, these boundaries shall be field verified;

- 17. Location and description of **isolated natural area** boundaries as defined by the Southeastern Wisconsin Regional Planning Commission, **woodland areas**, as defined in the storm water ordinance and other **vegetative cover types**;
- 18. Location and descriptive notes for **existing and proposed structures** within 50 feet of the property boundaries and their proposed use, including, but not limited to, buildings and foundations, roads, parking areas, fence lines, access lanes, culverts (include size and type), above ground utilities and retaining walls;
- 19. Location and descriptive notes for other known existing site features including, but not limited to, rock outcrops or other karst features, tile drains, buried utilities, dumps, landfills, manure or other waste storage facilities;
- 20. Boundaries and descriptive notes for all applicable setbacks and for "protective areas" (see ordinance or Checklist #3 for more information);
- 21. Location and descriptive notes for any existing or proposed easements, right-of-ways, vision corners or other known site restrictions. Road right-of-ways and building setbacks shall be in compliance with all applicable administrative codes, adopted plans and ordinances;
- 22. Location and descriptive notes for existing and proposed public dedications of parcels or right-of-ways;
- 23. Location and descriptive notes for preplanned building sites, when limited by site features;
- 24. Location and documentation of any existing well and delineation of any applicable regulatory setbacks, in accordance with ch. NR 811 and 812 Wis. Admin. Code;
- 25. Notes describing source documents, date and measure of accuracy for all applicable mapping features noted above;
- 26. A narrative describing the proposed land disturbing activity, construction timeline and sequencing temporary BMP's to be used to minimize off-site impacts during the construction phase, and proposed methods to stabilize the site following construction.
- 27. A scaled map or plan showing the location of the proposed land disturbance, direction of flow for runoff entering and leaving the disturbed area, upslope drainage area (if known), proposed BMP's existing and proposed slopes, ground cover, drainageways, trees, utilities and other structures within 50 feet of the proposed disturbance.
- 28. Name, address and daytime phone number of the person(s) charged with installing and maintaining all best management practices.
- 29. For underground utility installations, the plans must delineate where utilities will be installed, show the location of the open cut and the topography in the area, and list the total lineal feet to be installed and the lineal feet that will be done by open cut.
- 30. Other site information that the Village of Mukwonago determines is necessary to administer this ordinance.

**\*NOTE:** *If necessary, items should be displayed on more than one map to ensure clarity. Each map must include proposed structures, setbacks, easements, right-of-ways, etc.*



## Checklist #2 Additional Erosion Control Plan Requirements for Sites with >1 Acre Disturbance

Under Village ordinance, significant grading activity may trigger the need for a storm water permit for construction site erosion control. An erosion control plan is designed to protect downstream water resources and property owners from water pollution and other damage caused by sediment runoff from construction sites. Erosion control plans designed to meet the requirements of the Village ordinance shall adhere to the following guiding principles:

- 1) Propose grading that best fits the terrain of the site, avoiding steep slopes, wetlands, floodplains and environmental corridors;
- 2) Minimize, through project phasing and construction sequencing, the time the disturbed soil surface is exposed to erosive forces;
- 3) Minimize soil compaction, the loss of trees and other natural vegetation and the size of the disturbed area at any one time;
- 4) Locate erosion control BMPs upstream from where runoff leaves the site or enters waters of the state and outside of wetlands, floodplains, primary or secondary environmental corridors or isolated natural areas;
- 5) Emphasize the use of BMPs that prevent soil detachment and transport over those aimed to reduce soil deposition (sedimentation) or repair erosion damage.

### Erosion Control Plans Must Include the Following:

- 1. A **site map** in accordance with Checklist #1. Digital submittal required. All other map elements listed below shall be delineated and labeled at a scale of 1 inch equals no more than 100 feet, unless otherwise noted.
- 2. North arrow, graphic scale, draft date, name and **contact information** for project engineer or planner and designation of source documents for all map features;
- 3. Proposed site topography at contour intervals not to exceed two feet, proposed percent slope for all open channels and side slopes and all runoff **discharge points** from the site;
- 4. Proposed building envelopes and other **land area to be disturbed** and size in acres;
- 5. All **woodland areas**, those proposed to be lost or transplanted during construction and acres or numbers of each. For woodlands proposed to be lost, show individual trees larger than eight (8) inches in diameter that are located within twenty (20) feet of proposed grading boundaries;
- 6. Temporary **access drive** and specified surface material (3 to 6 inch clear or washed stone), minimum depth (minimum 12 inches) and minimum 50 feet long;
- 7. Temporary **flow diversion** devices for upslope or roof runoff until site is stabilized;
- 8. Temporary **sediment trapping devices** for site perimeter and inlets to culverts and storm drains;
- 9. Temporary settling basin or other BMP to be used for **site dewatering** during utility or other subsurface work;
- 10. Temporary **soil stockpile sites** indicating setbacks (minimum 25 feet) from channelized flow, nearby water resources or environmental corridors and the proposed erosion protection methods;
- 11. **Detailed drawings** and **cross sections** for any sediment traps, basins other major cut or fill areas showing side slopes and elevations;



- 12. Final **stabilization measures** for open channels and erosion protection for pipe and channel inlets, outlets and emergency spillways;
- 13. Location of **proposed utilities**, including standard cross-section for buried utilities, associated easements, labeling the type of utility and notes on erosion control and restoration plans;
- 14. Final **site stabilization** instructions for all disturbed areas, showing areas to be stabilized in acres, depth of applied topsoil (minimum 4 inches), seed types, rates and methodology, fertilizer, sod or erosion matting specifications, maintenance requirements until plants are well established, and other BMPs used to stabilize the site;
- 15. Detailed **construction notes** clearly explaining all necessary procedures to be followed to properly implement the plan including estimated starting date of grading, timing and sequence of construction or demolition, any construction stages or phases, utility installation, dewatering plans, refuse disposal, inspection requirements, and the installation, use and maintenance of BMPs in the plan;
- 16. Location of soil borings and **soil profile evaluations** with surface elevations and unique references to supplemental soil evaluations report forms. Also show estimated seasonal water table depths, which may be shown on a separate map, with sufficient references to the proposed site plan.
- 17. Spill prevention and response procedures.
- 18. Other items specified by the Village of Mukwonago as necessary to ensure compliance with the ordinance.

**Provide Supporting Information:**

- 1. A **narrative summary** of the erosion control plan, briefly explaining the overall plan and any unique information that led to the selection of BMPs and how the plan meets the guiding principles above.
- 2. **Summary of design data** for any structural BMP such as sediment basins or sediment traps. A professional engineer, licensed in the State of Wisconsin, shall stamp and sign a statement approving all designs and certifying that they have read the requirements of this ordinance and that, to the best of their knowledge, the submitted plans comply with the requirements.
- 3. Open channel design and stabilization data to support the selected BMPs for stabilization.
- 4. **Soil profile evaluation reports** with unique references and elevations that match the map above.
- 5. Estimated time soil stockpiles will exist to support the selected BMPs for erosion control.
- 6. Documentation that proposed utility locations and installation scheduling has been coordinated with the affected utility companies.
- 7. Documentation of any other calculations used to demonstrate compliance with the performance standards in this section.
- 8. Identification of the **primary contacts** for:
  - a. Conducting erosion control **inspections** and how they will make the **inspection logs** available to the Village of Mukwonago.
  - b. Completing site grading and temporary **erosion control practices**.
  - c. Completing final **site restoration and stabilization**.

## **Summary of Erosion Control Plan Technical Requirements (Ordinance Excerpts)**

1. Access Drives and Tracking. Provide access drive(s) for construction vehicles that minimize tracking of soil off site using BMPs such as stone tracking pads, tire washing or grates. Minimize runoff and sediment from adjacent areas from flowing down or eroding access drive.
2. Diversion of Upslope Runoff. Divert excess runoff from upslope land, rooftops or other surfaces, if practicable, using BMP's such as earthen diversion berms, silt fence and downspout extenders. Prevent erosion of the flow path and the outlet.
3. Inlet Protection. Protect inlets to storm drains, culverts and other storm water conveyance systems from siltation until the site is stabilized.
4. Soil Stockpiles. Locate soil stockpiles away from channelized flow and no closer than 25 feet from roads, ditches, lakes, streams, ponds, wetlands or environmental corridors, unless otherwise approved by the Village of Mukwonago. Control sediment from soil stockpiles. Any soil stockpile that remains for more than 30 days shall be stabilized.
5. Cut and Fill Slopes. Minimize the length and steepness of proposed cut and fill slopes and stabilize them as soon as practicable.
6. Channel Flow. Trap sediment in channelized flow before discharge from the site using BMPs such as sediment traps and sediment basins. Stabilize open channels as soon as practicable.
7. Outlet Protection. Protect outlets from erosion during site dewatering and storm water conveyance, including velocity dissipation at pipe outfalls or open channels entering or leaving a storm water management facility.
8. Overland Flow. Trap sediment in overland flow before discharge from the site using BMPs such as silt fence and vegetative filter strips.
9. Site Dewatering. Treat pumped water to remove sediment prior to discharge from the site, using BMPs such as sediment basins and portable sediment tanks.
10. Dust Control. Prevent excessive dust from leaving the construction site through construction phasing and timely stabilization or the use of BMPs such as site watering and mulch – especially with very dry or fine soils.
11. Topsoil Application. Save existing topsoil and reapply a minimum of 4 inches to all disturbed areas for final stabilization, unless otherwise approved by the Village of Mukwonago, such as for temporary seeding or storm water infiltration BMP's. If adequate topsoil does not exist on the site to meet this requirement, it shall be imported or a topsoil substitute such as compost may be used, upon approval by the Village of Mukwonago.
12. Waste Material. Recycle or properly dispose all waste and unused building materials in a timely manner. Control runoff from waste materials until they are removed or reused.
13. Sediment Cleanup. By the end of each workday, clean up all off-site sediment deposits or tracked soil that originated from the permitted site. Flushing shall not be allowed unless runoff is treated before discharge from the site.
14. Final Site Stabilization. All previous cropland areas where land-disturbing activities will not be occurring under the proposed grading plans, shall be stabilized within 30 days of permit issuance. Stabilize all other disturbed areas within 7 days of final grading and topsoil application. Large sites shall be treated in stages as final grading is completed in each stage. Any soil erosion that occurs after final grading or the application of stabilization measures must be repaired and the stabilization work redone.
15. Temporary Site Stabilization. Any disturbed site that remains inactive for greater than 7 days shall be stabilized with temporary stabilization measures such as soil treatment, temporary seeding or mulching. For purposes of this subsection, "inactive" means that no site grading, landscaping or utility work is occurring on the site and that precipitation events are not limiting these activities. Frozen soils do not exclude the site from this requirement.
16. Removal of Practices. Remove all temporary BMPs such as silt fences, ditch checks and sediment traps as soon as all disturbed areas have been stabilized.
17. Site Drainage. Site drainage plans shall comply with Checklist #3.



# Checklist A

## Erosion Control and Storm Water Permit Applicability and Exemptions

Name of Development/Land Being Disturbed:

Date Received:

### Section A - Is the Site Exempt from Submitting an Erosion Control Permit and a Storm Water Management Permit?

- If any of the questions 1-5 are answered "yes", then the site is exempt from submitting an erosion control permit and a storm water management permit.

YES

NO

1. Do the land disturbing activities directly involved in the planting, growing and harvesting of any plant grown for human or livestock consumption and pasturing or yarding of livestock including sod farms and tree nurseries?

2. Are the land development and land disturbing activities exempted by state or federal law, including highway construction and other projects conducted by a state agency?

3. Is the land disturbing activity directly involved in the installation and maintenance of private on-site waste disposal systems?

4. If another regulatory agency is enforcing erosion control and storm water management provisions that the Village determines are at least as restrictive as those contained in this ordinance, has the applicant requested an exemption?

5. Has the Village exempted the site or a portion of a site from meeting any or all of the requirements in accordance with sec. 34-110(e) of the Village's ordinance?

6. **Is the Site Exempt from Submitting an Erosion Control Permit and a Storm Water Management Permit?**

Comments:

### Section B - Does the Construction Site Need Erosion Control Permit?

- If question 7 is answered "yes" and 7a is answered "no", the construction is an individual one and two family residential building and does not need an erosion control permit. If question 7 is answered "yes" and 7a is answered "yes", the project needs an erosion control permit.
- If any of the questions 8-13 are answered "yes", the construction site needs an erosion control permit.
- If questions 14 or 15 are answered "yes", the site is exempt from submitting an erosion control permit.

YES

NO

7. Does the project involve activities the Village determines are required for the construction of individual one and two family residential buildings under SPS 321 Wis. Admin, Code?

a. If question 13 is answered yes, does the construction of the one and two family residential buildings disturb more than 1 acre?

8. Does the site disturb a total land surface area of 3,000 square feet or more?

9. Does the site disturb a surface area of 1 acre or more?

- 10. Does the project involve excavation or filling, or a combination of excavation and filling, in excess of 400 cubic yards of material?
- 11. Does the project involve the laying, repairing, replacing, or enlarging of an underground utility, pipe or other facility, or the disturbance of road ditch, grass swale or other open channel for a distance of 300 feet or more?
- 12. Does the project involve the maintenance of an existing storm water BMP?
- 13. Are there any land disturbing activities, regardless of size, that the Village determines is likely to cause an adverse impact to the environment or other property, or may violate any other erosion control standard set forth in this ordinance?
- 14. Is the project nonmetallic mining activities that are covered under a nonmetallic mining reclamation permit under NR 135 Wis. Admin. Code?
- 15. Is the project placing underground pipe or other utility that is plowed or bored into the ground outside areas of channelized runoff and causing no other disturbance?
- 16. **Does the Construction Site Need Erosion Control Permit?**  
Comments:

**Section C - Does the construction Require a Storm Water Management Permit?**

- If question 17 is answered “yes” and 17a is answered “no”, the construction is an individual one and two family residential building and does not need a storm water management permit. If question 17 is answered “yes” and 17a is answered “yes”, the project needs a storm water management permit.
- If any of the questions 18-22 are answered “yes”, the site needs to have a storm water management permit.

- | YES                      | NO                       |   |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | 17. Does the project involve activities the Village determines are required for the construction of individual one and two family residential buildings under SPS 321 Wis. Admin. Code? |
| <input type="checkbox"/> | <input type="checkbox"/> | a. If question 13 is answered yes, does the construction of the one and two family residential buildings result in an addition of ½ acre of impervious surface?                         |
| <input type="checkbox"/> | <input type="checkbox"/> | 18. Is the project creating a subdivision plat?   |
| <input type="checkbox"/> | <input type="checkbox"/> | 19. Does the project disturb a total land surface area of 1 acre or more?   |
| <input type="checkbox"/> | <input type="checkbox"/> | 20. Does the project involve the construction of a new public or private road of any length?  |
| <input type="checkbox"/> | <input type="checkbox"/> | 21. Does the project ultimately results in the addition of ½ acre or greater of impervious surfaces, including smaller individual sites that are part of a common plan of development?  |
| <input type="checkbox"/> | <input type="checkbox"/> | 22. Does the project involve any other land disturbing or land development activities, as determined by the Village, that would need storm water management?                            |
| <input type="checkbox"/> | <input type="checkbox"/> | 23. <b>Does the site need a storm water management permit?</b><br>Comments:   |

Types of Developments in the Village of Mukwonago								
	1 & 2 Family Residential			Construction Project				
				< 3,000 SF of Disturbance	> 3,000 SF but < 1 Acre of Disturbance		> 1 Acre of Disturbance	
Types of Construction Site Applications	1.	2.	3.	4.	5.	6.	7.	7.
Description	< 1 Acre of Disturbance and < ½ Acre of Added Imperviousness	< 1 Acre of Disturbance and > ½ Acre of Added Imperviousness	> 1 Acre of Disturbance and > ½ Acre of Added Imperviousness	< ½ Acre of Added Imperviousness	< ½ Acre of Added Imperviousness	> ½ Acre of Added Imperviousness	< ½ Acre of Added Imperviousness	> ½ Acre of Added Imperviousness
Is an Erosion Control Permit Necessary?	Follow SPS 321	Follow SPS 321	YES	NO	YES	YES	YES	YES
Is a Storm Water Management Permit Necessary?	Follow SPS 321	YES	YES	NO	NO	YES	YES	YES

**Types of Construction Site Applications**

1. Construction of individual one and two family residential buildings under SPS 321 Wis. Admin, Code, less than 1 acre disturbance and less than ½ acre of added impervious. **(Village of Mukwonago to review following SPS 321 Wis. Admin. Code.)**
2. Construction of individual one and two family residential buildings under SPS 321 Wis. Admin, Code, less than 1 acre disturbance and greater than ½ acre of added impervious. **(Village of Mukwonago to review and inspect EC and R/M will review Storm Water Management)**
3. Construction of individual one and two family residential buildings under SPS 321 Wis. Admin, Code, greater than 1 acre disturbance and greater than ½ acre of added impervious. **(R/M will review Plans and perform EC Inspections)**
4. Construction project does not need an erosion control permit and does not need a storm water management permit. **(No action necessary)**
5. Construction project needs an erosion control permit but does not need a storm water management permit. **(R/M will review EC Plans and perform EC Inspections)**
6. Construction project needs an erosion control permit (less than 1 acre disturbance) and a storm water management permit. **(R/M will review Plans and perform EC Inspections)**
7. Construction project needs an erosion control permit (greater than 1 acre disturbance) and a storm water management permit. **(R/M will review Plans and perform EC Inspections)**

**Which Construction Site Application does this site fall into? 7**

**Date Distributed to Appropriate Personnel :**

**Additional Comments:**



## Checklist B Preliminary Storm Water Review Letter Applicability Checklist

Name of Development/Land Being Disturbed:

Date Received:

### Section A – Does the site require a Preliminary Storm Water Review Letter?

- A preliminary storm water review letter from the Village Engineer is required for any of the following if question 24 on Checklist A – Section C is answered “yes” for the project:

YES

NO

1. Is the project trying to get approval for a preliminary plat?

2. Is the project trying to get approval for a certified survey map?

3. Is the project trying to get approval for a site plan?

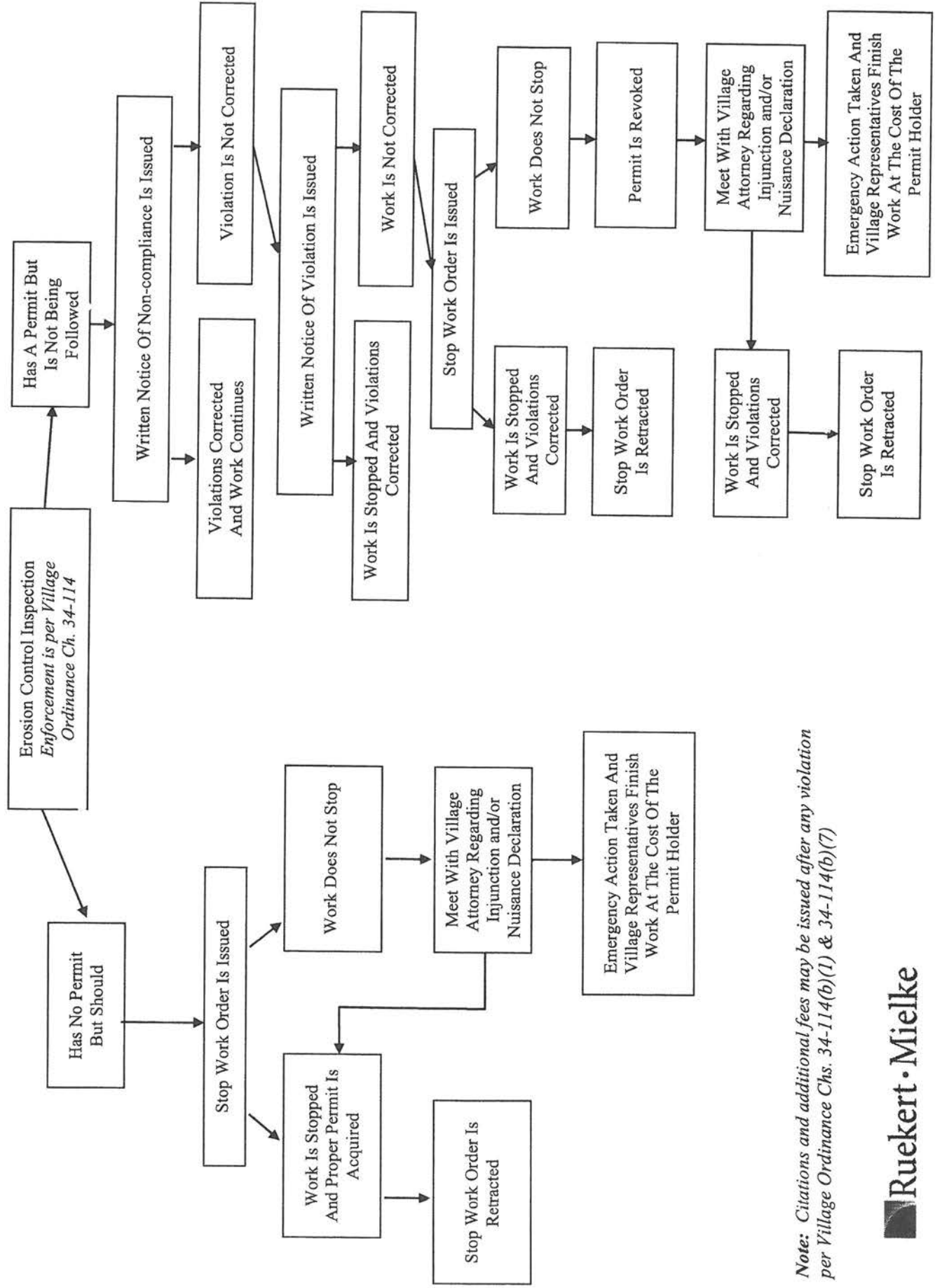
4. Is the project trying to get approval for a conditional use permit?

5. **Does the site require a Preliminary Storm Water Review Letter?**

Comments:

- The Village shall have 15 working days from the date the Village receives the **complete application** to issue a review letter to the applicable review authorities and the applicant based on the requirements of this ordinance.
- For preliminary plats, a Village interdepartmental review meeting shall not be scheduled prior to 5 working days nor more than 10 working days after the application submittal date for a preliminary review letter.

# Village of Mukwonago Erosion Control Enforcement Procedure Flow Chart



*Note: Citations and additional fees may be issued after any violation per Village Ordinance Chs. 34-114(b)(1) & 34-114(b)(7)*



## Village of Mukwonago

### 2.5 Post-Construction Storm Water Management

March 2021

The Village of Mukwonago has adopted an ordinance (Ch. 34-107) which regulates storm water discharges for new development and redevelopment. This program outlines the Village's procedures for post-construction storm water management plan review and local approval, handling of public complaints relating to post-construction storm water management facilities, and long term maintenance, inspections, and enforcement of privately owned facilities.

#### **Process for Obtaining Local Approval & Responding to Complaints**

The Village utilizes the Erosion Control and Storm Water Permit Process Flowchart (attached) for approval of storm water practices for new and redevelopment of sites greater than one acre of disturbance. Any citizen complaint is investigated by Village staff with an observation of the site in question.

#### **Storm Water Plan Review**

The Village utilizes checklists to ensure that plan reviews and post-construction requirements are met by each site with greater than one acre of land disturbance. The attached checklists (Checklist C and Checklist 3) guide the reviewer through the required components.

#### **Privately-Owned Storm Water Facility Inspections**

- Any site that contains a storm water facility (detention pond, infiltration basin, permeable pavement, etc.) shall be inspected at the frequency indicated in the site-specific long-term maintenance plan. Long-term maintenance plans are typically recorded with the county Register of Deeds prior to construction of the facility and are amended to reflected the constructed facility along with a certification by the design professional that they meet the intent of the storm water ordinance.
  - If a long-term maintenance plan does not exist for a particular storm water facility, then the facility shall be inspected at least once every year by the owner of the facility.
- An inspection report shall be completed for each inspection. Inspection reports shall be retained by the storm water facility owner for at least 5 years.
- The inspection reports shall be submitted to the Village at least once every year.
- The responsible party shall cause an inspection to be completed by a qualified professional every 5 years with a copy of this inspection report provided to the Village.
- Any citizen complaint will be investigated by Village staff with an observation of the site in question.
- Failure to perform an inspection and/or submit an inspection report to the Village by August 1st any year will result in a written notice from the Village requiring the inspection be completed and report submitted within a reasonable period of time as determined by the Village. Failure to complete the inspection and submit the inspection report within the above timelines will be considered a violation.



### **Storm Water Facility Maintenance**

- Any maintenance actions or needed repairs identified in the inspection report shall be completed by the owner within a reasonable time period of the inspection as determined by the Village.
- Upon completion of routine maintenance activities, a follow-up inspection report shall be completed to document the corrections and submitted to the Village.
  - Upon completion of removal of accumulated sediment from a storm water facility to re-establish the size and depth of the facility as designed, the facility shall be surveyed to confirm and record the completed work. This survey information shall be submitted to the Village with the post-maintenance work inspection report.

\*Local, state or federal permits may apply to storm water facility maintenance activities, depending on the location of the facility and the type of work proposed.

Information on disposal options for sediment removed from storm water facilities can be found on the Wisconsin Department of Natural Resources web-site at: <http://dnr.wi.gov/topic/waste/nr528.html>

### **Storm Water Facility Maintenance and Inspection Violations and Enforcement Measures**

- Failure to complete inspections and/or reports and submit them to the Village within the timelines identified in the notice from the Village is considered a violation.
- Any maintenance activities identified on the storm water facility inspection report that are not completed within a reasonable time period, as determined by the Village shall be considered a violation.
- After discovering a violation due to lack of necessary maintenance activities, the Village shall notify the permit holder in writing. This written notification shall be hand delivered to the permit holder or sent to the last known address, with a reasonable attempt to verify that the permit holder received it.
- If violations are not corrected, the Village may follow the enforcement provisions found in Sec. 34-114 of the Storm Water Ordinance.

### **Attachments:**

Village of Mukwonago Erosion Control and Storm Water Permit Process Flowchart

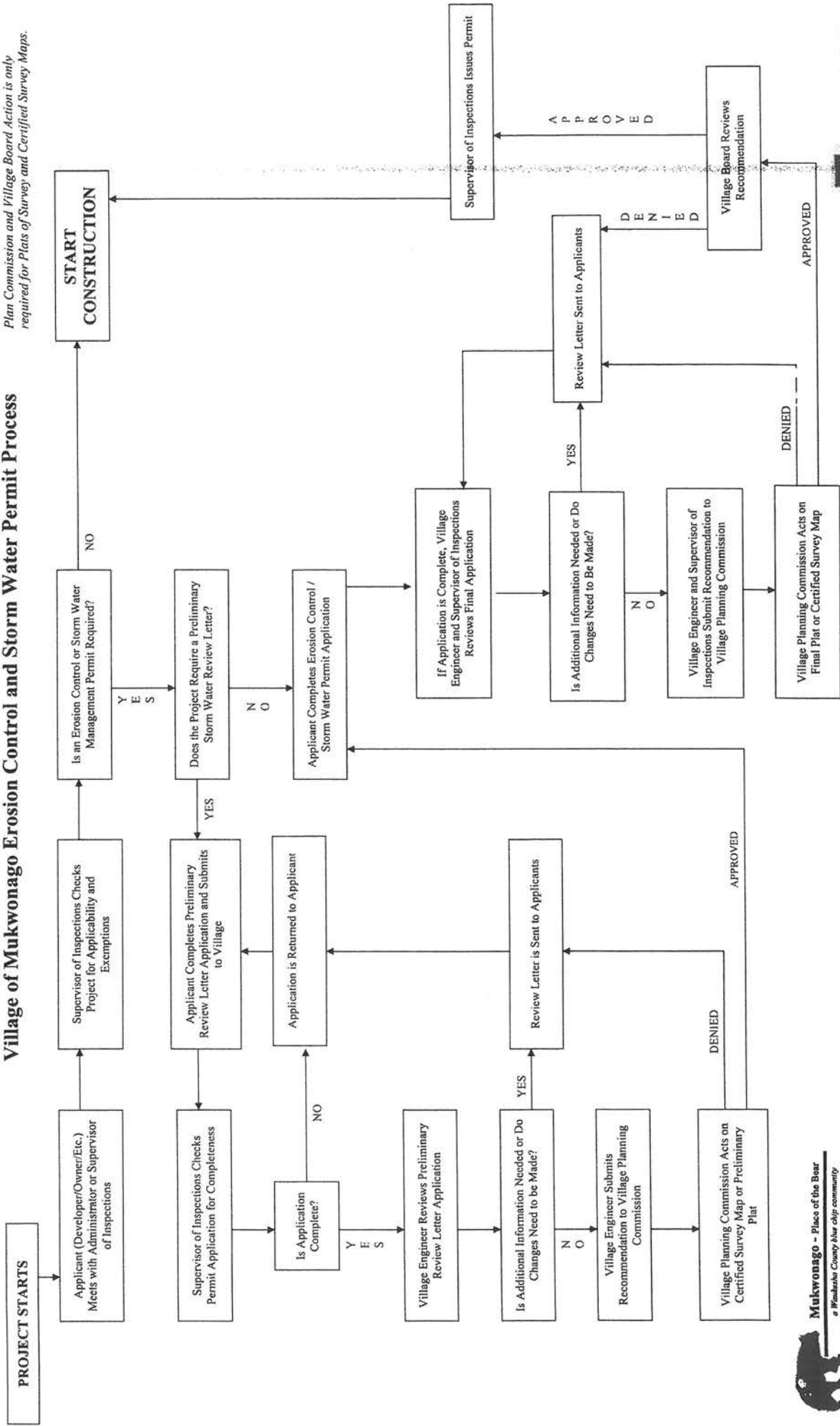
Checklist C

Checklist 3

Storm Water Facility Inspection Form

# Village of Mukwonago Erosion Control and Storm Water Permit Process

\*NOTE:  
Plan Commission and Village Board Action is only required for Plats of Survey and Certified Survey Maps.





## Checklist C Preliminary Storm Water Review Letter Application Completeness Checklist

Name of Development/Land Being Disturbed:

Date Received:

### Section A – Is the Preliminary Storm Water Review Letter Application Complete?

To request a preliminary review letter, the applicant shall submit a complete application to the Village.

- If any of the questions 1-6 are answered “no”, then the Preliminary Storm Water Review Letter Application is not complete

YES

NO

1. Is the application completed and signed?

2. Has the applicant provided certification to pay the review fee?

3. Has the applicant provided a site plan map in accordance with **Checklist 1**? The site plan map may be in a preliminary stage a prepared for zoning amendments and certified survey maps.

4. Has the applicant provided a preliminary erosion control plan in accordance with **Checklist 2**?

5. Has the applicant provided a preliminary storm water management plan in accordance with **Checklist 3** for those sites that propose to add a new road or add 0.5 acres or greater of impervious surfaces, including smaller individual sites that are part of a common plan of development

6. Has the applicant provided a preliminary maintenance agreement for all storm water BMP's proposed for the site?

7. **Is the Preliminary Storm Water Review Letter Application Complete?**

Comments:

- The Village shall have 15 working days from the date the Village receives the **complete application** to issue a review letter to the applicable review authorities and the applicant.
- For preliminary plats, a Village interdepartmental review meeting shall not be scheduled prior to 10 working days nor more than 20 working days after the application submittal date for a preliminary review letter.



## Checklist #3 Storm Water Management Plan Requirements

Under Village ordinance, additional impervious surfaces may trigger the need for a storm water management plan and permit. A storm water management plan is designed to protect downstream water resources and property owners from water pollution, flooding and other damage caused by urban runoff after a development is complete. Storm water management plans designed to meet the requirements of the Village ordinance shall adhere to the following guiding principles:

- 1) Preserve natural watershed boundaries and drainage patterns;
- 2) Reserve adequately sized areas for storm water infiltration, detention and treatment early in the planning process;
- 3) Locate storm water BMPs prior to runoff leaving the site or entering waters of the state, and outside of wetlands, floodplains, primary or secondary environmental corridors or isolated natural areas.
- 4) Minimize soil compaction and maintain pre-development groundwater recharge areas;
- 5) Minimize impervious surfaces and have them drain to vegetated areas for pollutant filtering and infiltration;
- 6) Emphasize vegetated swales, warm season and wetland plantings and low flow velocities for storm water conveyance, treatment and infiltration, especially for transportation related projects;
- 7) Allow for different storm water management strategies for cleaner runoff (i.e. roofs) versus more polluted runoff (i.e. streets and parking lots);
- 8) Provide for emergency overflow in all storm water BMP designs;
- 9) Distribute storm water bioretention and infiltration BMPs throughout the site plan for large developments.

### Storm Water Management Plan Must Include:

1. A **site map** in accordance with Checklist #1. Digital submittal required.
2. **Drafting date** and **contact information** for the project engineer, with the engineer's stamp and date. All other mapping elements and scale consistent with the site plan map;
3. Location of **existing and proposed storm water discharge points**;
4. Delineation and labeling of all proposed **impervious areas** and accompanying area computations.
5. Final **design drawings** of all proposed storm water BMPs with unique references to support documentation, prepared in accordance with minimum Village standards and of sufficient clarity for those responsible for site grading, including:
  - a. Plan views showing the **location of proposed BMPs** in combination with the site plan map at a scale of 1 inch equals no more than 100 feet;
  - b. Additional **detail plan view** drawings at a scale of 1 inch equals no more than 40 lineal feet, showing proposed 2 foot contours and all critical design features and elevations;
  - c. Detailed **cross-sections** and profiles of each BMP, drawn to scale, with locations shown on the plan view, and showing all critical design features, side slopes, structures, soil profiles and elevations, including seasonal high water table and existing grade;
  - d. Detailed drawings or **material specifications** for inlets or outlets.
6. Type, size, location and cross-sections of all pipes, open channels, grade stabilization structures and other proposed storm water **conveyance systems**, with unique references to support documentation.
7. Location and dimensions of proposed **drainage easements**.

- 8. Location, dimensions and surfacing materials or soils data of proposed **access lanes** and delineations of easements needed to allow future maintenance of storm water BMP's. Minimum width of any access easement shall be 15 feet.
- 9. Location of soil borings and **soil profile evaluations** with surface elevations and unique references to supplemental data sheets, as needed to determine feasibility of any proposed storm water BMP and to comply with applicable technical standards such as basement/groundwater separation requirements.
- 10. Detailed **construction notes** explaining all necessary procedures to be followed to properly implement the plan, including planting and landscaping specifications, timing and sequencing of construction and any temporary measures needed to protect BMPs during the construction phase.
- 11. Detailed **construction inspection plan**, outlining the critical elements in the plan that need to be surveyed or inspected by a representative of the project engineer, the Village, and the timing and notification requirements involved (Identify who is responsible).
- 12. A final **BMP maintenance agreement** in accordance with ordinance requirements.
- 13. Support documentation summarized in accordance with Village standards, must include at least the following:
  - a. A **narrative** summary of the storm water plan. (May combine with erosion control plan).
  - b. **Maps** of existing and proposed **watersheds**, subwatersheds, Tc/Tt flow paths, soil types, hydrologic soil groups, land uses/cover type and runoff curve numbers within the site and draining into the site from adjacent properties, with unique references to hydrology data summaries and the ultimate receiving water body(s) for off-site discharges.
  - c. Pre-development and post-development **hydrology** and pollutant loading (if applicable) **data** for each watershed, such as peak flows and runoff volumes, as needed to meet the requirements of the ordinance. All major assumptions used in developing the input parameters shall be clearly stated and cross-referenced to the maps.
  - d. **Impervious** surface maps and calculations of runoff volumes and effective infiltration areas.
  - e. **Hydraulic & hydrologic data summaries** for all existing and proposed pipes, channels, grade stabilization structures and other runoff conveyance systems, and the necessary documentation to demonstrate compliance with the site drainage requirements (see pg. 4).
  - f. **BMP design data** for each proposed BMP, showing how it complies with applicable technical standards and the requirements of the ordinance, following approved Village format.
  - g. **Soil evaluation reports** with matching references to map features, location and elevations.
  - h. A cover sheet **stamped and signed by a professional engineer** registered in the State of Wisconsin indicating that all plans and supporting documentation have been reviewed and approved by the engineer and certifying that, to the best of their knowledge, the submitted plans comply with the requirements of the ordinance.
  - i. For sites where changes are proposed in storm water flow paths or where proposed storm water discharges may otherwise have a significant negative impact on downstream property owner(s), the Village may require the applicant to submit written authorization or complete other legal arrangements with the affected property owner(s).

## Summary of Storm Water Management Plan Technical Requirements

**Listed below is a brief summary of the specific storm water management planning requirements and performance standards that must be met on all sites.** It is highly recommended that the applicant meet with the Village prior to preparing a site plan to determine the applicability of these requirements early in the planning process. Please note that this is only a summary. It is intended to be a general guide for the project engineer. For details on any of the items listed, see the ordinance.

1. **Peak Discharge.** The calculated post-development peak storm water discharge rate for the 100 year design storm shall not exceed the calculated pre-development discharge rates for the 10-year design storm and the calculated post-development peak storm water discharge rate for the 2 and 10 year design storms shall not exceed the calculated pre-development discharge rates for the 2-year design storm. The post-development peak storm water discharge rate for the 1-year, 24-hour design storm and ensure that it not exceed the calculated pre-development peak discharge rate for the 1-year 24-hour design storm.
2. **Total Suspended Solids.** By design, each storm water management plan must meet the following post-development total suspended solids (TSS) reduction targets, based on average annual rainfalls, as compared to no runoff management controls:
  - A. For new land development and in-fill development, 80% reduction in total suspended solids load.
  - B. For redevelopment, 40% reduction of total suspended solids load from parking areas and roads.
3. **Infiltration.**

### Minimum Infiltration Volumes (%)

Percent Connected Impervious Surface	Description/Example Land Uses	Post-Development Infiltration Volume <sup>a</sup>	Maximum Effective Infiltration Area
Up to 40%	Description: Low imperviousness	90% of pre-development <sup>b</sup>	1% of site
>40% up to 80%	Description: Medium imperviousness	75% of pre-development	2% of site
>80%	Description: High imperviousness	60% of pre-developments	2% of site

**\*Note:** All percentages are based on average annual rainfall. To avoid downstream flooding and chronic wetness issues from stormwater discharges, the post-development infiltration volume for low density residential developments shall not be less than 25% of the 2-year, 24-hour storm, in accordance with subsection 7, below.

4. **Protective Areas.** A "protective area" is a vegetative buffer that must be maintained between a proposed impervious surface and the nearest water resource, measured from the "top of channel". Storm water BMPs may be located in the area, but cannot encroach on wetlands, floodplains or environmental corridors. Minimum widths of protective areas are shown in the table below:

Site Description	Protective Area Min. Width
All Lakes and Streams (See County GIS System)	50 Lineal Feet
"Outstanding" and "Exceptional Resource Waters"	75 Lineal Feet
Wetlands: <ul style="list-style-type: none"> <li>• Highly Susceptible.</li> <li>• Less Susceptible.</li> </ul>	75 Lineal Feet 10 % of Average Wetland Width
Concentrated Flow Channels (>130 Acre Drainage)	10 Lineal Feet

5. **Fueling and Vehicle Maintenance Areas.** Must have BMPs designed, installed and maintained to reduce petroleum within runoff, such that the runoff that enters waters of the state contains no visible petroleum sheen.

6. Site Drainage.

- A. *Drainage easements* must be recorded to preserve major storm water flow paths, specify maintenance responsibilities, restrict buildings/structures and prevent any grading, filling or other activities that obstruct flows.
- B. *Site grading* must ensure positive flows away from all buildings, roads, driveways/septic systems, coordinate with general drainage patterns for the area, and minimize adverse impacts on adjacent properties.
- C. *Street drainage* must prevent concentrated flows from crossing the traffic lanes. Design flow depths at the road centerline must not exceed 6 inches during the 100-year, 24-hour design storm (planned land use).
- D. *Bridges and cross-culverts* must facilitate fish passage and prevent increased flooding or channel erosion upstream or downstream from the structure. All bridges and cross culverts on collector and arterial roadways shall be designed to convey the 100-year, 24-hour design storm. All bridges and cross culverts on local roadways shall be designed to convey the 10-year, 24-hour design storm while providing an overland flow path for the 100-year, 24-hour design storm. A floodplain analysis is required for all projects impacting a navigable waterway.
- E. *Basement floor* surfaces must be built at least 1 foot above the seasonal high water table elevation and avoid all hydric soils.
- F. *Open channels* must carry flows from a 100-year, 24-hour design storm. Side slopes shall be no steeper than 3h:1v and the longitudinal slope shall be no flatter than 1 percent.
- G. *Storm sewers* shall be designed to convey the 10-year, 24-hour design storm while providing an overland flow path which does not impact structures for the 100-year, 24-hour design storm.
- H. *Buildings* must be protected from 100-year, 24-hour design flows for all drainage systems. For homes and businesses (human occupancy), the following additional requirements shall apply (by deed restriction):
  - The lowest elevation of the structure that is exposed to the ground surface must be at least 2 feet above the 100-year flow elevation.
  - Must be setback at least 50 feet from the 100-year flow line.

**Note:** The Village may establish more stringent requirements than those listed based on unique site conditions, such as sensitive water resources or downstream landowner impacts.

The Village requires map items listed above to be submitted in digital form, if available.

## Village of Mukwonago

### Inspection and Maintenance of Municipally Owned or Operated Storm Water Management Facilities

July 2016

#### Purpose of Storm Water Facility Inspections and Maintenance

Design and construction of storm water detention ponds, infiltration basins, biofilters, permeable pavement systems, and other treatment facilities started in the Village of Mukwonago 15-20 years ago, and continue today. These systems are designed to reduce the amount of sediment, nutrients, metals and other pollutants that run off the streets and lands in the Village and flow into the lakes, creeks and wetlands, causing harm to aquatic habitat and water quality.

The Village of Mukwonago is required to ensure inspections and maintenance activities are being performed on the municipally owned or operated storm water facilities designed and constructed to improve water quality flowing through the municipal storm sewer system and ultimately into local lakes, streams and wetlands. This requirement is found in sections 2.5 and 2.6 of the WPDES Municipal Separate Storm Sewer System (MS4) Permit no. WI-S050075-2, issued on April 29, 2014.

Municipally “owned” storm water facilities include detention ponds, infiltration basins, biofilters, permeable pavement and other systems located on *municipal* property, and are owned and maintained by the municipality.

Municipally “operated” storm water facilities include detention ponds, infiltration basins, biofilters, permeable pavement and other systems located on *private* property, which the private property owners are required to inspect and maintain. The Village is required, through the MS4 permit, to ensure inspections and subsequent maintenance activities are being performed on these facilities to maintain the water quality treatment capabilities of the system as designed.

#### Municipally Owned Storm Water Facility Inspections

- Village staff will inspect municipally owned storm water facilities once per year.
- Inspection reports will be recorded on a spreadsheet or other tracking system, and reports will be retained for at least 5 years.



### **Privately-Owned (Municipally Operated) Storm Water Facility Inspections**

- Any site that contains a storm water facility (detention pond, infiltration basin, permeable pavement, etc.) shall be inspected at the frequency indicated in the site-specific long-term maintenance plan. Long-term maintenance plans are typically recorded with the county Register of Deeds prior to construction of the facility and are amended to reflect the constructed facility along with a certification by the design professional that they meet the intent of the storm water ordinance.
  - If a long-term maintenance plan does not exist for a particular storm water facility, then the facility shall be inspected at least once every year by the owner of the facility.
- An inspection report shall be completed for each inspection. Inspection reports shall be retained by the storm water facility owner for at least 5 years.
- The inspection reports shall be submitted to the Village at least once every year.
- The responsible party shall cause an inspection to be completed by a qualified professional every 5 years with a copy of this inspection report provided to the Village.
- Any citizen complaint will be investigated by Village staff with an observation of the site in question.
- Failure to perform an inspection and/or submit an inspection report to the Village by August 1<sup>st</sup> any year will result in a written notice from the Village requiring the inspection be completed and report submitted within a reasonable period of time as determined by the Village. Failure to complete the inspection and submit the inspection report within the above timelines will be considered a violation.

### **Storm Water Facility Maintenance**

- Any maintenance actions or needed repairs identified in the inspection report shall be completed by the owner within a reasonable time period of the inspection as determined by the Village.
- Upon completion of routine maintenance activities, a follow-up inspection report shall be completed to document the corrections and submitted to the Village.
  - Upon completion of removal of accumulated sediment from a storm water facility to re-establish the size and depth of the facility as designed, the facility shall be surveyed to confirm and record the completed work. This survey information shall be submitted to the Village with the post-maintenance work inspection report.

\*Local, state or federal permits may apply to storm water facility maintenance activities, depending on the location of the facility and the type of work proposed.

Information on disposal options for sediment removed from storm water facilities can be found on the Wisconsin Department of Natural Resources web-site at: <http://dnr.wi.gov/topic/waste/nr528.html>

### **Storm Water Facility Maintenance and Inspection Violations and Enforcement Measures**

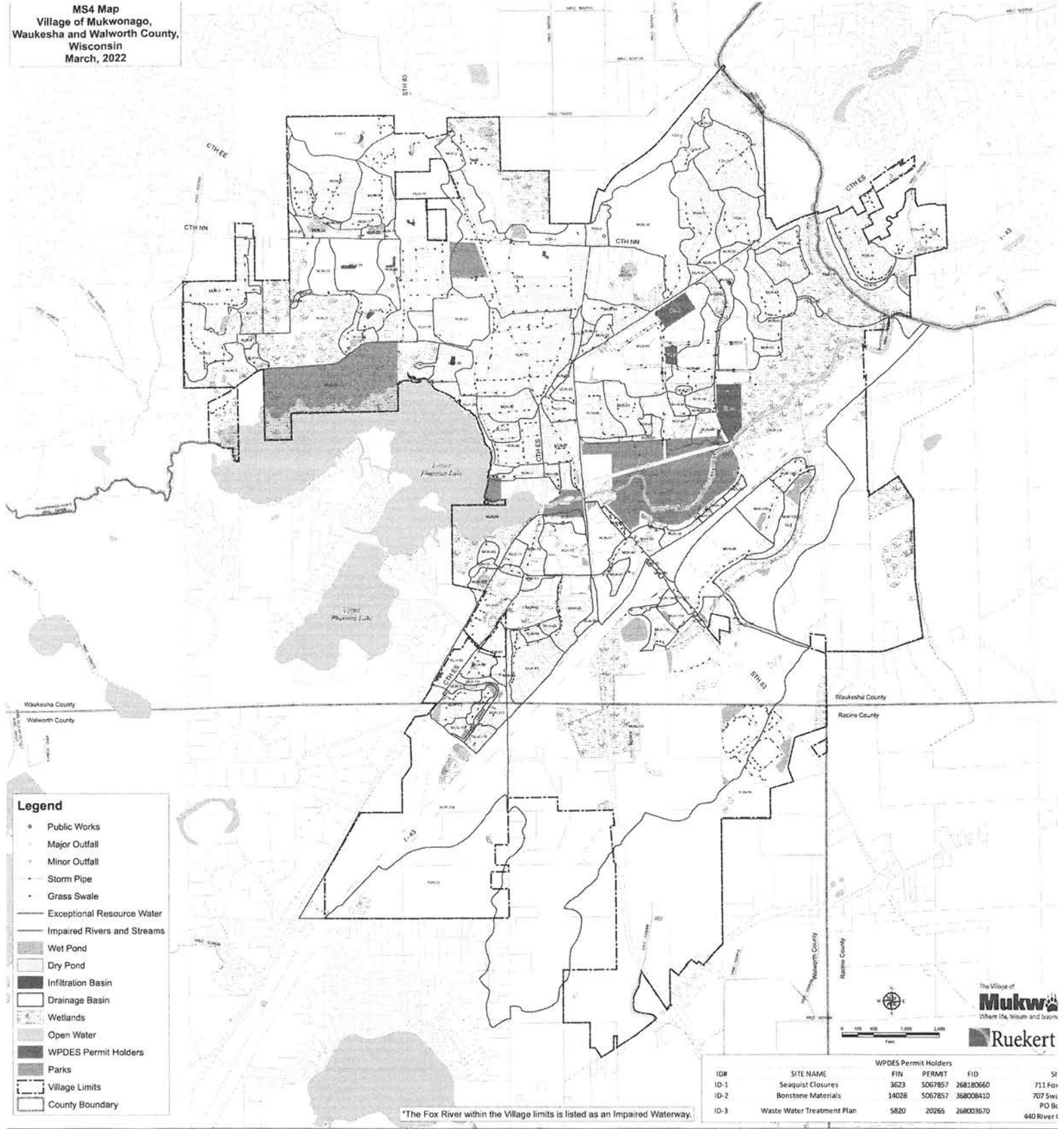
- Failure to complete inspections and/or reports and submit them to the Village within the timelines identified in the notice from the Village is considered a violation.
- Any maintenance activities identified on the storm water facility inspection report that are not completed within a reasonable time period, as determined by the Village shall be considered a violation.
- After discovering a violation due to lack of necessary maintenance activities, the Village shall notify the permit holder in writing. This written notification shall be hand delivered to the permit holder or sent to the last known address, with a reasonable attempt to verify that the permit holder received it.
- If violations are not corrected, the Village may follow the enforcement provisions found in Sec. 34-114 of the Storm Water Ordinance.

Development Name:	Location:	Parcel ID:	Facility Type:	TSS Yield - No Controls (lbs)	% Reduction	TSS Yield - With Controls (lbs)	Total P Yield - No Controls (lbs)	% Reduction	Total P Yield - With Controls (lbs)
Chapman Residential Phase 2	Subdivision begins 200 Feet north of the intersection of Fairwinds Blvd and Westlawn Avenue	MUKV1957010	Wet Forebay 1C	13,932	0	0	64.11	0	0
Meadowland Townhomes	Northwest Corner of CTH "EE" and CTH "NN" intersection	MUKV196099003	Wet Pond 1 Rain Garden 2 Rain Garden 3	126	81.84%	23.35	0.8002	81.84%	0.2746
Birchrock Castle Senior Living	210 McDivitt Lane	MUKV2012215002	Biofiltration Basin Filter Strip	296.3	76.12%	70.75	0.7862	76.12%	0.1893

100.00%

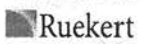
65.69%

75.41%



- Legend**
- Public Works
  - Major Outfall
  - Minor Outfall
  - Storm Pipe
  - Grass Swale
  - Exceptional Resource Water
  - Impaired Rivers and Streams
  - Wet Pond
  - Dry Pond
  - Infiltration Basin
  - Drainage Basin
  - Wetlands
  - Open Water
  - WPDES Permit Holders
  - Parks
  - - - Village Limits
  - County Boundary

\*The Fox River within the Village limits is listed as an Impaired Waterway.



ID#	SITE NAME	WPDES Permit Holders			SI
		FIN	PERMIT	FID	
ID-1	Seagist Closures	3623	S067857	268180660	711 Fox
ID-2	Bonstone Materials	14028	S067857	368008410	707 Swi
ID-3	Waste Water Treatment Plan	5820	20265	268003670	PO Bc 440 River t

## 2.6.1 Village of Mukwonago Structure List

"Facilities with Storm Water Maintenance Agreements (SWMA) are included in the Village's water quality reduction calculations."

Device ID	Device Type	Year Constructed	Subdivision	Location	Name 1	SWMA on File	Drawing on File
3	WET POND	2017	Fairwinds	Stoeker Farm Ave. & Rosewood Dr.	Fairwinds HOA	Yes	Yes
4	WET POND	2017	Fairwinds	Stoeker Farm Ave. & Rosewood Dr.	Fairwinds HOA	Yes	Yes
2	WET POND	2001	Fairwinds	Fairwinds BLVD. & Stoeker Farm Ave.	Fairwinds HOA	Yes	No
1	WET POND	2001	Fairwinds	Fairwinds BLVD. & Stoeker Farm Ave.	Fairwinds HOA	Yes	No
18	WET POND	2012	Minors Estates ADD #3 Minors West HOA	Augusta Dr.	MINORS HOMESTEAD WEST HOMEOWNERS ASSOC	Yes	Yes
15	WET POND	2005	Minors Estates ADD #1 Minors West HOA	Brockway Dr.	MINORS HOMESTEAD WEST HOMEOWNERS ASSOC	Yes	No
14	WET POND	2005	Minors ADD #1 Minors West HOA	Brockway Dr. & North of CTH LO	MINORS HOMESTEAD WEST HOMEOWNERS ASSOC	Yes	No
13	WET POND	2005	Minors Estates ADD #1, Minors West HOA	Brockway Dr. & CTH LO	MINORS HOMESTEAD WEST HOMEOWNERS ASSOC	Yes	No
12	WET POND	2003	Minors Homestead	Minors Dr. & CTH LO	MINORS HOMESTEAD HOMEOWNERS ASSOC	Yes	No
17	WET POND	2005	Minors Estates ADD #2 Minors West HOA	Valhalla Dr.	MINORS HOMESTEAD WEST HOMEOWNERS ASSOC	Yes	No
16	WET POND	2005	Minors Estates ADD #2 Minors West HOA	Valhalla Dr.	MINORS HOMESTEAD WEST HOMEOWNERS ASSOC	Yes	No
20	INFILTRATION BASIN	2003	Honey Meadow	W Side Ave.	HONEY MEADOWS CONDO ASSOC. BB-00-YESMUK-442	NO	No
47	WET POND	2003	State of WI	S. Rochester St. & Front St.	WISCONSIN HWY COMMISSION	State Owned	
8	WET POND	2005	The Glen of Mukwonago	Black Bear Dr.	Real Estate Specialists	Yes	Yes
5	WET POND	ORIG/2001 RETROFIT/2020	Village Owned	E. Veterans Way	Village of Mukwonago	Village Owned	Yes
45	WET POND	1993	Brooklife Church	857 S. Rochester St.	Brooklife Church	Yes	No
46	WET POND	2003	State of WI	S. Rochester St. & Mukwonago River	WISCONSIN HWY COMMISSION	State Owned	
48	WET POND	1999	State of WI	Holz Pkwy. & Park and Ride	WISCONSIN HWY COMMISSION	State Owned	
53	WET POND	1995	Village Owned	Miniwaukan Park Middle	Village of Mukwonago	Village Owned	Yes
52	WET POND	1995	Village Owned	Miniwauken Park East	Village of Mukwonago	Village Owned	Yes
54	WET POND	1995	Village Owned	Miniwaukan Park West	Village of Mukwonago	Village Owned	Yes
49	WET POND	1999	Village Owned	Holz Pkwy. South of Mukwonago River	Village of Mukwonago	Village Owned	No
37	WET POND	2003	Walmart/Home Depot	250 East Wolf Run	WAL-MART REAL ESTATE BUSINESS TRUST, HOME DEPOT USA INC, GREENWALD FAMILY LIMITED PARTNERSHIP	NO NO NO	No No No
40	WET POND	2003	Village Owned	East Termini of E. Wolf Run	Village of Mukwonago	Village Owned	Yes
51	WET POND	1999	Village Owned	Holz Pkwy. N. of Mukwonago River	Village of Mukwonago	Village Owned	No
50	WET POND	1999	Village Owned	Holz Pkwy. N of Mukwonago River	Village of Mukwonago	Village Owned	No
21	WET POND	1992	Whispering Bay Condos	1024 Bay View Ct	Real Estate Specialists	NO	No
23	WET POND	2016	Premier Woods Apts.	540 Phantom Woods Rd.	TW PHANTOM WOODS LLC	Yes	No
Device ID	Device Type		Subdivision	Location	Name 1	SWMA on File	
30	WET POND	2007	Orchards #1	1304 Orchardview Ln.	ORCHARDS OF MUKWONAGO HOMEOWNERS ASSOC	Yes	No
31	WET POND	2007	Orchards #1	1334 Cider Circle	ORCHARDS OF MUKWONAGO HOMEOWNERS ASSOC	Yes	No
28	WET POND	2006	Orchards #1	1414 Applewood Cir.	ORCHARDS OF MUKWONAGO HOMEOWNERS ASSOC	Yes	No
29	WET POND	2006	Orchards #1	1446 Applewood Cir.	ORCHARDS OF MUKWONAGO HOMEOWNERS ASSOC	Yes	No
33	WET POND	1992	Legend Meadows	Bear Pass	LEGEND MEADOWS ASSOC INC	Yes	No
36	WET POND	2003	Pro Health	DNG Medical Ctr. 240 Maple Ave.	WAUKESHA MEMORIAL HOSPITAL	Yes	No
58	WET POND	2006	Fox River View	1623 Fox River Run	Fox River View HOA	Yes	No

60	WET POND	2005	Edgewood Condos	Grey Fox Trail	EDGEWOOD MEADOWS CONDO ASSN	Yes	Yes
59	WET POND	2005	Edgewood Condos	Grey Fox Trail	EDGEWOOD MEADOWS CONDO ASSN	Yes	Yes
61	WET POND	2005	Edgewood Condos	Grey Fox Trail	EDGEWOOD MEADOWS CONDO ASSN	Yes	Yes
7	INFILTRATION BASIN	2007	The Glen of Mukwonago	Black Bear Dr.	Real Estate Specialists	Yes	No
11	INFILTRATION BASIN	2003	Minors Homestead	Minors Dr.	MINORS HOMESTEAD HOMEOWNERS ASSOC	Yes	No
43	WET POND	2000	400 Bay View Rd.	400 Bay View Rd.	B&B INVESTMENT PROPERTIES	Yes	No
41	WET POND	2007	Chelsea Lynn Parkway	325 Bayview Rd - Chelsea Lynn Parkway	MB KLUM INVESTMENTS LLC.	Yes/DA	No
35	WET POND	2003	State of WI	STH 83 & E Wolf Run	WISCONSIN HWY COMMISSION	State Owned	
34	WET POND	2015	Dewey Dr. Industrial Park	Dewey Drive	Village of Mukwonago	Village Owned	No
32	WET POND	2016	Orchards #2	CTH ES/Regress Rd	The Orchards 2 Owners Association	Yes	Yes
25	WET POND	2015	Premier Apts.	540 PhantomWoods Rd.	TW PHANTOM WOODS LLC	Yes	No
22	WET POND	2015	Premier Apts	540 Phantom Woods Rd.	TW PHANTOM WOODS LLC	Yes	No
24	WET POND	2015	Prenier Apts.	540 Phantom Woods Rd.	TW PHANTOM WOODS LLC	Yes	No
9	INFILTRATION BASIN	2004	Hawks Ridge East Condos	E. Veterans Way	HAWKS RIDGE EAST	Yes	No
38	WET POND	2012	Mukwonago YMCA	245 E. Wolf Run	MUKWONAGO YMCA	Yes	Yes
39	INFILTRATION BASIN	2012	Mukwonago YMCA	245 E. Wolf Run	MUKWONAGO YMCA	Yes	Yes
27	INFILTRATION BASIN	2005	Mosler Properties	1340 Main St.	LOT OWNERS OF M&M PROPERTIES	Yes	No
						Yes	No
						Yes	No
26	INFILTRATION BASIN	2005	Mosler Properties	1340 Main St.	LOT OWNERS OF M&M PROPERTIES	Yes	No
						Yes	No
						Yes	No
42	WET POND	2015	SCHMIDT & BARTELT	930 Main St.	SCHMIDT & BARTELT	Yes	Yes
<b>Device ID</b>	<b>Device Type</b>		<b>Subdivision</b>	<b>Location</b>	<b>Name 1</b>	<b>SWMA on File</b>	
55	WET POND	2011	CHR Hansen	600 Perkins Dr	CHR HANSEN INC	No	No
56	WET POND	2005	Ridgebore	700 Swan Dr.	BASSETT HOLDING GROUP INC	No	No
62	WET POND	2003	Badger Color	1007 Fox St.	MADEY ENTERPRISES INC	No	No
63	INFILTRATION BASIN	2012	MCL	Park Ave/Division St.	Village of Mukwonago	Village Owned	No
10	INFILTRATION BASIN	2010	District Office	E. Veteran Way	MUKWONAGO AREA SCHOOLS	Yes	Yes
6	INFILTRATION BASIN	2017	St Johns Church	W. Veterans Way	ST JOHN'S CHURCH	Yes	Yes
70	INFILTRATION BASIN	2012	MINORS HOMESTEAD ADD 3	Medina Drive	MINORS HOMESTEAD WEST HOMEOWNERS ASSOC	Yes	Yes
71	INFILTRATION BASIN	2012	MINORS HOMESTEAD ADD 3	Outlot 13	MINORS HOMESTEAD WEST HOMEOWNERS ASSOC	Yes	No
69	WET POND	2015	ALDI	111 E WOLF RUN	ALDI Inc. Oak Creek Division	Yes	Yes
72	INFILTRATION BASIN	2001	Fire Dept. Station 1	1111 Fox Street	Village of Mukwonago	Village Owned	No
64	INFILTRATION BASIN	2017	MHS	Mukwonago Union High	MUKWONAGO AREA SCHOOLS	Yes	No
63	INFILTRATION BASIN	2017	MHS	Mukwonago Union High	MUKWONAGO AREA SCHOOLS	Yes	No
65	INFILTRATION BASIN	2018	122 Arrowhead Real Estate LLC	122 Arrowhead Drive	122 Arrowhead Real Estate LLC	Yes	Yes
66	WET POND	2019	Chapman Place	Chapman Place	B&B Investments of Mukwonago	Yes	Yes
67	INFILTRATION BASIN	2019	Chapman Place	Chapman Place	B&B Investments of Mukwonago	Yes	Yes
68	WET POND GREASE/OIL SEPERATOR	2015	KWIKTRIP	Black Bear Blvd	KWIK TRIP	Yes	Yes
75	WET POND	2007	Chelsea Lynn Parkway	325 Bayview Rd - Chelsea Lynn Parkway	MB KLUM INVESTMENTS LLC.	Yes/DA	No
73	INFILTRATION BASIN	2007	ANTIGUA REAL	355 BAY VIEW RD	JABE LLC	Yes/DA	No
76	WET POND	2007	Chelsea Lynn Parkway	325 Bayview Rd - Chelsea Lynn Parkway	MB KLUM INVESTMENTS LLC.	Yes/DA	No
77	DRY POND	2004	Village Car Care	J&N Auto	VILLAGE AUTOMOTIVE LLC	Yes	No
79	WET POND	2015	Village Owned	Mukwonago High School	Village of Mukwonago	Village Owned	Yes
78	DRY POND	2015	ALDI	111 E WOLF RUN	ALDI Inc. Oak Creek Division	Yes	Yes
80	WET POND	2014	Milwaukee Tool	Milwaukee Tool	Milwaukee Tool	NO	No
81	BIOFILTRATION DEVICE	2018	Village Owned	Chapman Farms	Village of Mukwonago	Village Owned	Yes
83	WET POND	2019	Village Owned	TID#5 Pond 1	Village of Mukwonago	Village Owned	Yes





## Office of the Village Public Works Dept.

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www.villageofmukwonago.com

### Village of Mukwonago Pollution Prevention Plan

Revised February 2021

The Village is covered under the Wisconsin Department of Natural Resources' (WDNR) WPDES Municipal Separate Storm Sewer System Permit No. WI-S050075-3, reissued on May 1, 2019. The intent of the MS4 permit program is to minimize the discharge of pollutants into the local lakes, streams, and wetlands via the Village's storm water conveyance system.

The Village of Mukwonago has been conducting a pollution prevention program since 2010, when it was first required under the WPDES Municipal Separate Storm Sewer System (MS4) Permit No. WI-S050075-1.

The Village of Mukwonago is located within the (IL) Fox River Basin. A Total Maximum Daily Load analysis (TMDL) is currently under development for this basin and is anticipated to be completed in 2023-2025. This TMDL is anticipated to address the Total Suspended Solids (TSS) and phosphorus that is impairing waterways in the basin.

The Village Public Works Director will administer the pollution program.

The following permit sections have independent written programs:

- **2.6.1 Stormwater BMP Inspection and Maintenance Program**
- **2.6.2 BMP Inspections**
- **2.6.3 Stormwater Pollution Prevention Plans (SWPPP) for Municipal Properties**
- **2.6.6 Winter Road Management (Includes Section 2.6.9 Staff Training Program)**

The Village has not entered a program for adding nutrients to our municipal properties at this time. In the event the village begins a program, a written policy and documentation program will be in effect before the process begins. The written program will be attached to the subsequent annual MS4 report.

The Village of Mukwonago is divided into five zones. These zones are used to identify areas when completing inspections and maintenance.

#### **Street Sweeping (2.6.5.a.)**

The Village uses a vacuum sweeper to collect debris on urban sections of streets. Operations begin in spring as weather permits and are conducted four times annually. The zones mentioned above are used as a tracking method for staff to ensure completion for round of sweeping. The fourth round of sweeping is conducted just prior to leaf fall and the beginning of leaf collection.





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New employees are trained by the mechanic on operation and maintenance for the unit. Operators are trained in the areas of operation, preventive maintenance and common issues associated the unit's performance.

### **Catch Basin Cleaning (2.6.5.b.)**

Village staff clean one fifth of the catch basins annually. The above-mentioned zone map is used a guide to ensure each CB is cleaned one once per permit term. Inspections are completed at the time of cleaning and documented on the villages GIS for future reference and documentation. Work orders are created for repairs and any unusual debris removed are noted.

Equipment used in the process include the street sweeper and a jetter/vacuum truck.

### **Material Handling and Disposal (2.6.5 c.)**

Debris collected from street sweeping and catch basin cleaning are stored in a concrete bin under tarp until removal. The Village contracts with a garbage and recycling contractor for disposal at an appropriate land fill. An annual report outlining weights, time and facility location for documentation is requested by the Village from the contractor.

### **Leaf Collection (2.6.5 d.)**

The Village contracts for residential yard waste collections with the current garbage and recycling contractor for its yard waste recycling program, including leaf collection. Eight collection events are conducted annually with focused collections in November and December for leaves. The quarterly recycling report from the contractor contains the weight of yard waste collected. Fourth quarter data is used for reporting purposes on the annual MS4 report.

Residents are required to place leaves in compostable paper bags or reusable refuse containers at the curb for collection.

Leaves that accumulate in the streets are removed by Village staff with a vacuum sweeper. The sweeper is run at a lower RPM during leaf collection operations to prevent contamination from normal street debris. Leaves collected by street sweeper are composted at the Village DPW yard for internal use.

Leaves from Village facilities and parks are mulched on site and left in place. Leaves at sites with insufficient areas for onsite composting will have the leaves collected and disposed of at the DPW yard composting site.



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### **Village of Mukwonago Storm Water Pollution Prevention Plan for Municipal Property**

**Site:** Village of Mukwonago Public Works Department Site  
630 Veterans Way East Mukwonago, WI 53149

**Contact info.:** Ron Bittner, Director of Public Works  
262-363-6447  
rbittner@villageofmukwonago.com

#### **Site Description**

The Public Works Department property located at 630 CTH NN E. is the central location for the department's activities and storage. Facilities include the repair shop and parking garage, salt shed, sand shed, cold storage building, outdoor storage, police impound and a fueling station. The fueling center is utilized by the Inspections, Utilities, DPW, Police and Fire Departments.

The Public Works yard is a six-acre parcel; the department utilizes approximately five of these acres. The remaining acreage is zoned environmental corridor. A municipal well and water tower are located on the southwest corner of the property. The property is bordered on the south by CTH NN E., the Canadian National Railroad on the west and farm fields owned by the St. James Parish on the east. The eastern and western property lines intersect on the north.

The Public Works yard was established in 1972. The main building was remodeled along with a 9,000 SFT addition in 2000. A 1,000-ton salt shed was added to the compound in 2011.

#### **Runoff Prevention Practices and Maintenance Activities**

The Village of Mukwonago has been covered under the WPDES Municipal Storm Separate Sewer System (MS4) Discharge Permit WI-S050075-2 since 2009. Staff submitted a Storm Water Pollution Prevention Plan (SWPPP) map for the Public Works yard, which helped identify efficiencies and pollution prevention practices that could be installed to protect the nearby water resources. Staff is in the process of removing discarded materials that have been stored in the yard and consolidating other items into smaller, more manageable areas, thus removing potential sources of pollution. Removing obsolete equipment and consolidating materials on site also means fewer runoff prevention practices are necessary, and less time installing, maintaining, and inspecting these practices associated with this task.

Runoff from the Village's Public Works yard flows to the west towards a swale adjacent the Canadian National RR tracks. The pavement changes to gravel before entering the swale on the west side of the property. Runoff from the pavement area partially infiltrates in to a gravel area prior to entering the swale. The Village of Mukwonago continues to evaluate potential runoff pollution resulting from the Public Works yard activities and has implemented measures to reduce pollution.



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The following actions and improvements have been implemented at the Village of Mukwonago DPW yard:

- Installing bays around stockpiled material
- Using wattles around stockpile not contained within a bin.
- Tarping street sweepings and stockpiles.
- Modern salt shed.
- Replacement of obsolete equipment with multi use units. This process allows the department to free up inside equipment storage.
- Installation of a new electronic fueling station with maximum fill control per specific vehicle.
- Vehicle washing and rinsing be done indoors.
- Vehicle maintenance completed in repair shop.

Maintenance and inspections are critical for ensuring prevention activities function properly. Without inspections or maintenance, debris, and pollutants such as sediment, metals, nutrients, etc., that are captured can become a source of pollution if excess amounts are carried out with rain and snow melt. Any inspections and maintenance of storm water pollution practices should be documented and recorded for comparison and evaluation of their performance.

Building of stockpile containment bins was started several years ago, cold patch material and street sweepings are currently binned and tarped. Any material that spills or is tracked away from the immediate storage area is swept up and deposited back onto the piles. Loose salt that spills or is tracked away from the shed entrance during delivery is swept up and placed in the shed. Any excess salt that spills during loading of trucks during a snow/ice event is also swept up and placed back in the salt shed. The salt shed itself is designed to meet the requirements of Trans 207, Wisconsin Administrative Code.

The lawn is mowed as needed, depending on the weather.

Temporary storage of items such as posts for snow fence, garbage & recycling barrels, etc., occupy space around the perimeter of the sheds in winter until crews deliver these items to Village parks in the spring.

Most of the Village Departments utilized the fueling center. Employee training includes review of the spills procedures and location of the spills kit.

The floor drains in the main garage are connected to the sanitary sewer system, rather than the storm sewer system. Any fluids from vehicle maintenance or other activities inside the garage are directed through this system to the Wastewater Treatment Plant. Floor drains are cleared of debris on an as-needed basis. An oil/grease separator allows recurring clean-out and maintenance of the system.



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### **Recommendations to Enhance Runoff Protection**

Village staff have previously taken steps to implement runoff control practices and to minimize the materials that could be sources of runoff pollution at the Public Works yard. Current recommendations include:

1. Sweep up any spilled salt and return into inventory.

### **Spills Plan**

Dry materials that spill is swept up and either disposed of or replaced in the bins for future use, if possible. (Example: dry salt spilled on the ground can be swept up and put back in the salt pile for use in the future.)

Liquids that spill on the ground are absorbed, with the absorption materials disposed of properly depending on the liquid. The Fire Department would be notified for major spills and handled in accordance to the Village and Town of Mukwonago Emergency Management Plan.

Staff are trained on which authorities to contact depending on the situation, such as the Fire Department, Police Department, or the Wisconsin Department of Natural Resources.

New staff are educated on the spills plan when they start, and any policy changes are communicated to appropriate staff at the time of the changes. As part of the Storm Water Pollution Prevention Plan, the spills plan will be evaluated yearly, and any changes will be summarized in the Village's MS4 annual report.

### **Employee Training**

Public Works Department training is an on-going activity for staff. Changes in procedure are communicated with appropriate staff, and new staff receive training on safety procedures and overall operations of the department. Any portions of the SWPPP, including the spills plan, that affect staff in other departments are shared with those departments.

### **Inspections**

Inspections are conducted quarterly and documented on a SWPPP inspection form. Items noted on the inspection reports are corrected as soon as possible. The yard is evaluated on a recurring basis to improve operations.

## STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INSPECTION FORM FOR MUNICIPAL FACILITIES

Site:	Village of Mukwonago DPW Shop and Yard
Location:	630 Veterans Way East
Inspector/Title:	Ron Bittner
Date:	3/18/21
Last Inspection (Date):	12/8/20

### Storm Water Pollution Prevention Plan

Has a storm water pollution prevention plan been developed for this site? Yes  No

Title of Plan: Village of Mukwonago SWPPP for Municipal Facilities

Date of Plan: April 2016

Does the SWPP include a site map, list of pollutant sources, pollutant control practices to be inspected, and maintenance procedures? Yes  No

(Indicate any items that are *not* included):

### Vehicle Maintenance, Washing and Fueling

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
1	Vehicle maintenance area drains to sanitary sewer system	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Vehicle maintenance area has oil-grease separator in floor drains	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3	Floor drains are clean	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
4	Vehicle washing completed inside building	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
5	Vehicle washing drains to sanitary system	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
6	Vehicle fueling center has canopy/cover	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
7	Vehicle fueling center has clearly labeled spill kit nearby	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
8	Vehicle fueling center has oil-grease separators in nearby storm drains	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

### Hazardous Waste Management

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
1	Hazardous materials and containers are stored indoors	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Containers of hazardous materials are in good condition	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

### Waste Management

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
1	Dumpsters are covered	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Full dumpsters are hauled out on a regular basis	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3	Piles of miscellaneous debris are sorted and disposed of on a regular basis	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
4	Street sweepings are covered	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
5	Street sweepings are stored in containers or have barriers or perimeter controls to minimize runoff impacts	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

### Material Storage

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
1	Runoff from bulk storage is contained on low side by barriers, bays or other perimeter controls	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Bulk storage piles are stabilized/vegetated	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3	Materials stored under cover/inside buildings	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
4	Area near salt shed is clear of excess/spilled/tracked salt	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

5	Excess/spilled/tracked salt is swept up and added to bulk salt pile	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Need to clean sooner after an event.
6	Underground runoff containment is emptied on a regular basis	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Old salt/sand shed cleaned as needed

### Runoff Controls

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
1	Grass filter strips have at least 70% uniform vegetation growth	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Grass filter strips typically have 6 inches or more of vegetation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3	Storm water pond inlets/outlets are stable	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
4	Storm water berms are vegetated	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
5	Storm water pond berms are stable (no erosion, tree roots or animal borougths)	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
6	Infiltration basins/rain gardens have at least 70% plant growth	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
7	Infiltration basins/rain gardens are maintained regularly, and in the spring and fall	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
8	Infiltration basins/rain gardens drain down within 24 hours ( <i>based on post-rain event observations</i> )	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	

### Spills Program

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
1	Written program is available for employees	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Employees know where written program is located	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3	Written program is evaluated annually	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

### Employee Training

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
1	New employees are trained on SWPPP	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Annual or more frequent training provided to employees on SWPPP	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Each inspection is a training opportunity.

	Recommendations/Correction	Completed On (Date)	Initials
1			
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## STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INSPECTION FORM FOR MUNICIPAL FACILITIES

Site:	Village of Mukwonago DPW Shop and Yard
Location:	630 Veterans Way East
Inspector/Title:	Randy Peterson
Date:	6/22/21
Last Inspection (Date):	3/18/21

### Storm Water Pollution Prevention Plan

Has a storm water pollution prevention plan been developed for this site? Yes  No

Title of Plan: Village of Mukwonago SWPPP for Municipal Facilities

Date of Plan: April 2016

Does the SWPP include a site map, list of pollutant sources, pollutant control practices to be inspected, and maintenance procedures? Yes  No

(Indicate any items that are *not* included):

### Vehicle Maintenance, Washing and Fueling

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
1	Vehicle maintenance area drains to sanitary sewer system	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Vehicle maintenance area has oil-grease separator in floor drains	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3	Floor drains are clean	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
4	Vehicle washing completed inside building	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
5	Vehicle washing drains to sanitary system	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
6	Vehicle fueling center has canopy/cover	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
7	Vehicle fueling center has clearly labeled spill kit nearby	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
8	Vehicle fueling center has oil-grease separators in nearby storm drains	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

### Hazardous Waste Management

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
1	Hazardous materials and containers are stored indoors	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Containers of hazardous materials are in good condition	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

### Waste Management

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
1	Dumpsters are covered	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Full dumpsters are hauled out on a regular basis	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3	Piles of miscellaneous debris are sorted and disposed of on a regular basis	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
4	Street sweepings are covered	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
5	Street sweepings are stored in containers or have barriers or perimeter controls to minimize runoff impacts	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

### Material Storage

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
1	Runoff from bulk storage is contained on low side by barriers, bays or other perimeter controls	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Bulk storage piles are stabilized/vegetated	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3	Materials stored under cover/inside buildings	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
4	Area near salt shed is clear of excess/spilled/tracked salt	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

5	Excess/spilled/tracked salt is swept up and added to bulk salt pile	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
6	Underground runoff containment is emptied on a regular basis	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

### Runoff Controls

	Activity/Practice	Inspected?	Activity/Practice Adequate?	Corrective Action Needed & Notes
1	Grass filter strips have at least 70% uniform vegetation growth	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Grass filter strips typically have 6 inches or more of vegetation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3	Storm water pond inlets/outlets are stable	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
4	Storm water berms are vegetated	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
5	Storm water pond berms are stable (no erosion, tree roots or animal borroughs)	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
6	Infiltration basins/rain gardens have at least 70% plant growth	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
7	Infiltration basins/rain gardens are maintained regularly, and in the spring and fall	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
8	Infiltration basins/rain gardens drain down within 24 hours ( <i>based on post-rain event observations</i> )	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	

### Spills Program

	Activity/Practice	Inspected?	Activity/Practice Adequate?	Corrective Action Needed & Notes
1	Written program is available for employees	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Employees know where written program is located	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3	Written program is evaluated annually	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

### Employee Training

	Activity/Practice	Inspected?	Activity/Practice Adequate?	Corrective Action Needed & Notes
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1	New employees are trained on SWPPP	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Annual or more frequent training provided to employees on SWPPP	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Each inspection is a training opportunity.

	Recommendations/Correction	Completed On (Date)	Initials
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## STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INSPECTION FORM FOR MUNICIPAL FACILITIES

Site:	Village of Mukwonago DPW Shop and Yard
Location:	630 Veterans Way East
Inspector/Title:	Ron Bittner
Date:	9/13/21
Last Inspection (Date):	6/22/21

### Storm Water Pollution Prevention Plan

Has a storm water pollution prevention plan been developed for this site? Yes  No

Title of Plan: Village of Mukwonago SWPPP for Municipal Facilities

Date of Plan: April 2016

Does the SWPP include a site map, list of pollutant sources, pollutant control practices to be inspected, and maintenance procedures? Yes  No

(Indicate any items that are *not* included):

### Vehicle Maintenance, Washing and Fueling

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
1	Vehicle maintenance area drains to sanitary sewer system	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Vehicle maintenance area has oil-grease separator in floor drains	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3	Floor drains are clean	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
4	Vehicle washing completed inside building	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
5	Vehicle washing drains to sanitary system	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
6	Vehicle fueling center has canopy/cover	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
7	Vehicle fueling center has clearly labeled spill kit nearby	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
8	Vehicle fueling center has oil-grease separators in nearby storm drains	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

### Hazardous Waste Management

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
1	Hazardous materials and containers are stored indoors	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Containers of hazardous materials are in good condition	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

### Waste Management

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
1	Dumpsters are covered	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Check more frequently.
2	Full dumpsters are hauled out on a regular basis	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3	Piles of miscellaneous debris are sorted and disposed of on a regular basis	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
4	Street sweepings are covered	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
5	Street sweepings are stored in containers or have barriers or perimeter controls to minimize runoff impacts	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

### Material Storage

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
1	Runoff from bulk storage is contained on low side by barriers, bays or other perimeter controls	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Bulk storage piles are stabilized/vegetated	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3	Materials stored under cover/inside buildings	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
4	Area near salt shed is clear of excess/spilled/tracked salt	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

5	Excess/spilled/tracked salt is swept up and added to bulk salt pile	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
6	Underground runoff containment is emptied on a regular basis	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

### Runoff Controls

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
1	Grass filter strips have at least 70% uniform vegetation growth	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Grass filter strips typically have 6 inches or more of vegetation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3	Storm water pond inlets/outlets are stable	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
4	Storm water berms are vegetated	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
5	Storm water pond berms are stable (no erosion, tree roots or animal borroughs)	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
6	Infiltration basins/rain gardens have at least 70% plant growth	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
7	Infiltration basins/rain gardens are maintained regularly, and in the spring and fall	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
8	Infiltration basins/rain gardens drain down within 24 hours ( <i>based on post-rain event observations</i> )	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	

### Spills Program

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
1	Written program is available for employees	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Employees know where written program is located	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3	Written program is evaluated annually	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

### Employee Training

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
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1	New employees are trained on SWPPP	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Annual or more frequent training provided to employees on SWPPP	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Each inspection is a training opportunity.

	Recommendations/Correction	Completed On (Date)	Initials
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## STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INSPECTION FORM FOR MUNICIPAL FACILITIES

Site:	Village of Mukwonago DPW Shop and Yard
Location:	630 Veterans Way East
Inspector/Title:	
Date:	
Last Inspection (Date):	12/15/21

### Storm Water Pollution Prevention Plan

Has a storm water pollution prevention plan been developed for this site? Yes  No

Title of Plan: Village of Mukwonago SWPPP for Municipal Facilities

Date of Plan: April 2016

Does the SWPP include a site map, list of pollutant sources, pollutant control practices to be inspected, and maintenance procedures? Yes  No

(Indicate any items that are *not* included):

### Vehicle Maintenance, Washing and Fueling

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
1	Vehicle maintenance area drains to sanitary sewer system	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Vehicle maintenance area has oil-grease separator in floor drains	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Cleaned in October
3	Floor drains are clean	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Cleaned in October
4	Vehicle washing completed inside building	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
5	Vehicle washing drains to sanitary system	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
6	Vehicle fueling center has canopy/cover	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
7	Vehicle fueling center has clearly labeled spill kit nearby	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
8	Vehicle fueling center has oil-grease separators in nearby storm drains	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

### Hazardous Waste Management

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
1	Hazardous materials and containers are stored indoors	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Containers of hazardous materials are in good condition	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

### Waste Management

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
1	Dumpsters are covered	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Check more frequently.
2	Full dumpsters are hauled out on a regular basis	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3	Piles of miscellaneous debris are sorted and disposed of on a regular basis	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
4	Street sweepings are covered	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
5	Street sweepings are stored in containers or have barriers or perimeter controls to minimize runoff impacts	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

### Material Storage

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
1	Runoff from bulk storage is contained on low side by barriers, bays or other perimeter controls	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Bulk storage piles are stabilized/vegetated	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3	Materials stored under cover/inside buildings	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
4	Area near salt shed is clear of excess/spilled/tracked salt	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

5	Excess/spilled/tracked salt is swept up and added to bulk salt pile	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
6	Underground runoff containment is emptied on a regular basis	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

### Runoff Controls

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
1	Grass filter strips have at least 70% uniform vegetation growth	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Grass filter strips typically have 6 inches or more of vegetation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3	Storm water pond inlets/outlets are stable	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
4	Storm water berms are vegetated	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
5	Storm water pond berms are stable (no erosion, tree roots or animal boroughs)	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
6	Infiltration basins/rain gardens have at least 70% plant growth	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
7	Infiltration basins/rain gardens are maintained regularly, and in the spring and fall	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
8	Infiltration basins/rain gardens drain down within 24 hours ( <i>based on post-rain event observations</i> )	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	

### Spills Program

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
1	Written program is available for employees	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Employees know where written program is located	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3	Written program is evaluated annually	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

### Employee Training

	Activity/Practice	Inspected?	Activity/ Practice Adequate?	Corrective Action Needed & Notes
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1	New employees are trained on SWPPP	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Annual or more frequent training provided to employees on SWPPP	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Each inspection is a training opportunity.

	Recommendations/Correction	Completed On (Date)	Initials
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

# THE VILLAGE OF MUKWONAGO

## Fourth Quarter 2021 Recycling Report

Single Stream, Tons	Year Total	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
Mixed Paper	332.8	81.1	85.6	80.8	85.3
Cardboard	153.6	37.4	39.5	37.3	39.4
Glass	174.9	42.6	45.0	42.5	44.8
#1 Plastic	25.6	6.2	6.6	6.2	6.6
#2 Natural HDPE	8.4	2.1	2.2	2.1	2.2
#2 Colored HDPE	8.6	2.1	2.2	2.1	2.2
#3-7 Plastic	6.8	1.7	1.8	1.7	1.7
Rigid Plastic***	3.4	0.8	0.9	0.8	0.9
Tin Cans	21.3	5.2	5.5	5.2	5.5
Al Cans	6.8	1.7	1.8	1.7	1.7
<b>Single Stream Total</b>	<b>742</b>	<b>181</b>	<b>191</b>	<b>180</b>	<b>190</b>

Recycled Bulk, Tons*	Year Total	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
Antifreeze	0.03	0.00	0.01	0.01	0.01
Appliances	1.25	0.26	0.58	0.31	0.09
Batteries	0.28	0.00	0.06	0.03	0.19
Cardboard	1.35	0.34	0.33	0.38	0.29
Metal	1.86	0.48	0.64	0.45	0.29
Oil	0.79	0.05	0.19	0.26	0.30
Tires	3.13	0.34	0.73	1.00	1.06
<b>Recycled Bulk Total</b>	<b>8.69</b>	<b>1.46</b>	<b>2.54</b>	<b>2.45</b>	<b>2.24</b>

<b>Total Recyclables</b>	<b>751</b>	<b>182</b>	<b>193</b>	<b>183</b>	<b>192</b>
<b>Total Garbage**</b>	<b>2642</b>	<b>568</b>	<b>671</b>	<b>724</b>	<b>679</b>

\*Please note that JOHNS does not recycle polystyrene foam.

\*\*Total garbage weight includes weekly garbage and residual garbage removed from recyclables.

\*\*\*Rigid Plastic is not to be included in grant reporting

Population	8126	<i>Year to date pounds per capita recycled. WI DNR requires 107 pounds per year.</i>	<b>182.7</b>
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Yard Waste	Year Total	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
	147.8	0.0	31.4	21.3	95.1

Recycling Compliance	Year Total	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
Warning Tags	0	0	0	0	0
Written Warnings	0	0	0	0	0

Report completed by:  
 Johns Disposal Service, Inc.  
 PO Box 329  
 Whitewater, WI 53190  
 (262) 473-4700



Whitewater & Franksville, WI

# Village of Mukwoango Street Sweeping Disposal

SERV NAME	WORK ORDER #	ACTION DATE	MATERIAL	TONNAGE
VILLAGE OF MUKWONAGO GARAGE	655816	6/11/2021	STREET SWEEPINGS	11.49
VILLAGE OF MUKWONAGO GARAGE	663933	6/16/2021	STREET SWEEPINGS	11.92
VILLAGE OF MUKWONAGO GARAGE	664485	6/18/2021	STREET SWEEPINGS	10.63
VILLAGE OF MUKWONAGO GARAGE	738648	10/20/2021	STREET SWEEPINGS	11.14
VILLAGE OF MUKWONAGO GARAGE	739796	10/25/2021	STREET SWEEPINGS	4.61
TOTAL				49.79

Inventory Usage

Department	Group	Activity Description	Log Date	Name	Quantity	Units
Activity Description: Snow Event						
Name: Brine						
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 12/16/2021	Brine	93.00	Gallon
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 12/28/2021	Brine	208.00	Gallon
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 12/29/2021	Brine	82.00	Gallon
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 1/1/2022	Brine	160.00	Gallon
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 1/3/2022	Brine	253.00	Gallon
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 1/5/2022	Brine	65.00	Gallon
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 1/6/2022	Brine	50.00	Gallon
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 1/10/2022	Brine	134.00	Gallon
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 1/24/2022	Brine	340.00	Gallon
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 1/24/2022	Brine	336.00	Gallon
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 2/4/2022	Brine	133.00	Gallon
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 2/10/2022	Brine	126.00	Gallon

Department	Group	Activity Description	Log Date	Name	Quantity	Units
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 2/11/2022	Brine	68.00	Gallon
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 2/17/2022	Brine	343.00	Gallon
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 2/18/2022	Brine	48.00	Gallon
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 2/19/2022	Brine	230.00	Gallon
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 2/22/2022	Brine	451.00	Gallon
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 2/23/2022	Brine	142.00	Gallon
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 2/25/2022	Brine	379.00	Gallon
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 3/7/2022	Brine	313.00	Gallon

Total: 3,954.00  
Average: 197.70

Name: Salt

Public Works	Snow & Ice Removal	Snow Event	Date Logged: 12/16/2021	Salt	21,598.00	Pounds
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 12/28/2021	Salt	46,241.00	Pounds
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 12/29/2021	Salt	13,039.00	Pounds
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 1/1/2022	Salt	27,726.00	Pounds
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 1/3/2022	Salt	49,566.00	Pounds

3/9/2022 3:56:52 PM



Department	Group	Activity Description	Log Date	Name	Quantity	Units
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 1/5/2022	Salt	8,974.00	Pounds
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 1/6/2022	Salt	8,093.00	Pounds
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 1/10/2022	Salt	18,492.00	Pounds
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 1/24/2022	Salt	46,871.00	Pounds
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 1/24/2022	Salt	47,885.00	Pounds
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 2/4/2022	Salt	39,247.00	Pounds
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 2/10/2022	Salt	23,466.00	Pounds
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 2/11/2022	Salt	15,461.00	Pounds
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 2/17/2022	Salt	52,334.00	Pounds
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 2/18/2022	Salt	8,399.00	Pounds
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 2/19/2022	Salt	230.00	Pounds
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 2/22/2022	Salt	110,382.00	Pounds
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 2/23/2022	Salt	21,769.00	Pounds
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 2/25/2022	Salt	63,722.00	Pounds

Department	Group	Activity Description	Log Date	Name	Quantity	Units
Public Works	Snow & Ice Removal	Snow Event	Date Logged: 3/7/2022	Salt	40,370.00	Pounds

Total: 663,865.00  
Average:

## STORMWATER POND INSPECTION

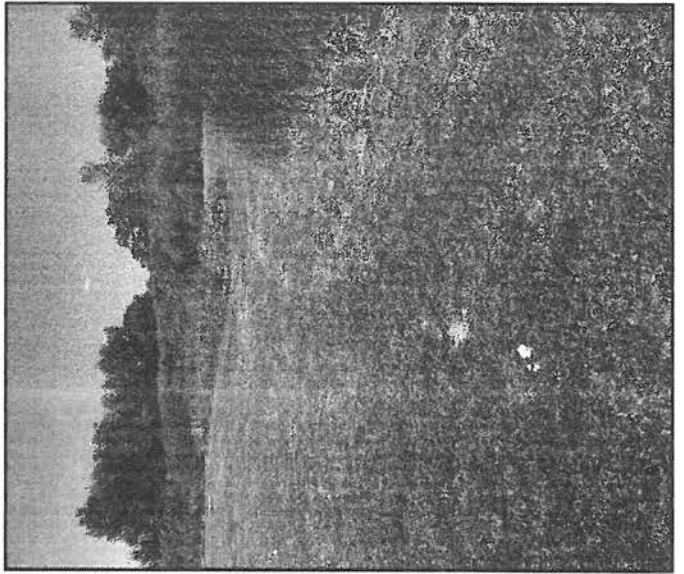
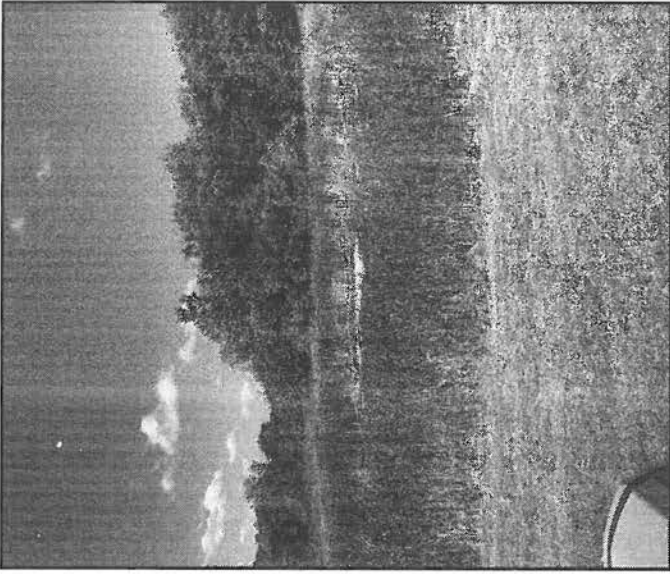
Pond Information							
Pond ID:	0049	Pond Type:	Wet Pond				
Location:	Holz Pkwy. South of Mukwonago River						
Subdivision:		Watershed:	Mukwonago				
Capacity:		Acres:					
Overflow Elev:		100 Year Elev:					
Year Constructed:		Date Input:					
Water Quality:	✓	Owner:	Our Agency				
Inspection Details							
Inspector Name(s):	Kevin Van Aacken						
Inspection Date:	8/30/2021	Start Time:	11:35AM	End Time:	11:50PM		
Weather Condition:	Clear and sunny			Last Rainfall Date:	8/29/2021		
Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
Dry Pond							
1. Standing water or wet spots?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Sediment or trash accumulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Low flow channels unobstructed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Wet Pond							
1. Removal of floating debris required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Visible oil/chemical presence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Evidence of wave action?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Safety shelf erosion or failure?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Infiltration Basin							
1. Standing water or wet spots?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Sediment or trash accumulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Under drain functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

## STORMWATER POND INSPECTION

Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Vegetation</b>							
1. Adequate vegetation cover?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Appropriate vegetation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Presence of invasive or undesirable vegetation/woody growth?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Excessive nuisance aquatic vegetation present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Sediment Forebays</b>							
1. Is sediment accumulation >50%? If yes, then maintenance is needed immediately.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Evidence of excessive velocity/scour?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Maintenance access clear of obstructions?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Embankment &amp; Emergency Spillway</b>							
1. Is the spillway level?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Adequate Freeboard? (min 1' from top of bank to highest outlet)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Embankment erosion evident?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Cracking, bulging or sliding of embankment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Evidence of animal burrows?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Seepage evident on exterior face of embankment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Vertical & horizontal alignment of top of dam as per plans?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Emergency spillway clear of obstructions & debris?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Maintenance access clear of obstruction?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

### STORMWATER POND INSPECTION

Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Riser &amp; Outfall Spillway</b>							
1. Low flow orifice obstructed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Low flow trash rack debris/corrosion?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Weir trash rack debris/corrosion?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Excessive sediment accumulation inside the riser?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Sediment accumulation in outlet pipe?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Outfall channels functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Under drain functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Slope protection or rip-rap failures?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Other</b>							
1. Encroachments on pond or easement area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Complaints from residents?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Odor?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Mowing required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Graffiti removal needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Insects in excess?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Public hazards?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Summary:							
Inspector Remarks:							



## STORMWATER POND INSPECTION

Pond Information							
Pond ID:	0054			Pond Type:	Wet Pond		
Location:	Miniwaukan Park West						
Subdivision:				Watershed:	Mukwonago		
Capacity:				Acres:			
Overflow Elev:				100 Year Elev:			
Year Constructed:				Date Input:			
Water Quality:				Owner:	Our Agency		
Inspection Details							
Inspector Name(s):	Kevin Van Aacken						
Inspection Date:	8/31/2021	Start Time:	09:05AM	End Time:	09:25AM		
Weather Condition:				Last Rainfall Date:	8/29/2021		
Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
Dry Pond							
1. Standing water or wet spots?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Sediment or trash accumulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Low flow channels unobstructed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Wet Pond							
1. Removal of floating debris required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Visible oil/chemical presence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Evidence of wave action?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Safety shelf erosion or failure?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Infiltration Basin							
1. Standing water or wet spots?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Sediment or trash accumulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Under drain functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

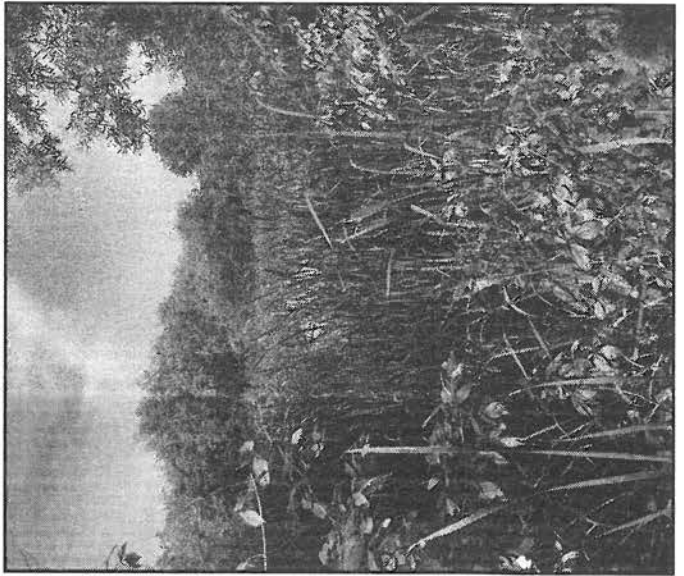
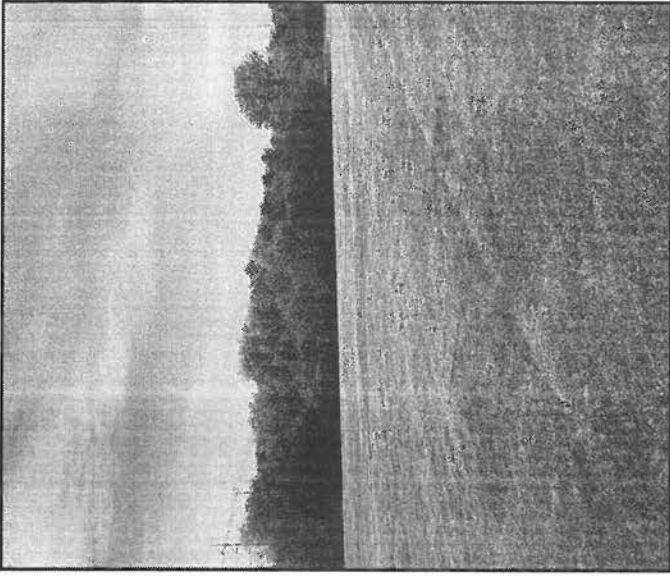
### STORMWATER POND INSPECTION

Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Vegetation</b>							
1. Adequate vegetation cover?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Appropriate vegetation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Presence of invasive or undesirable vegetation/woody growth?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Excessive nuisance aquatic vegetation present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Sediment Forebays</b>							
1. Is sediment accumulation >50%? If yes, then maintenance is needed immediately.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Evidence of excessive velocity/scour?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Maintenance access clear of obstructions?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Embankment &amp; Emergency Spillway</b>							
1. Is the spillway level?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Adequate Freeboard? (min 1' from top of bank to highest outlet)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Embankment erosion evident?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Cracking, bulging or sliding of embankment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Evidence of animal burrows?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Seepage evident on exterior face of embankment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Vertical & horizontal alignment of top of dam as per plans?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Emergency spillway clear of obstructions & debris?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Maintenance access clear of obstruction?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	



### STORMWATER POND INSPECTION

Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Riser &amp; Outfall Spillway</b>							
1. Low flow orifice obstructed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Low flow trash rack debris/corrosion?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Weir trash rack debris/corrosion?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Excessive sediment accumulation inside the riser?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Sediment accumulation in outlet pipe?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Outfall channels functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Under drain functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Slope protection or rip-rap failures?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Other</b>							
1. Encroachments on pond or easement area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Complaints from residents?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Odor?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Mowing required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Graffiti removal needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Insects in excess?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7. Public hazards?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Summary:							
Inspector Remarks:							



## STORMWATER POND INSPECTION

Pond Information							
Pond ID:	0053	Pond Type:	Wet Pond				
Location:	Miniwaukan Park Middle						
Subdivision:		Watershed:	Mukwonago				
Capacity:		Acres:					
Overflow Elev:		100 Year Elev:					
Year Constructed:		Date Input:					
Water Quality:		Owner:	Our Agency				
Inspection Details							
Inspector Name(s):	Ron B						
Inspection Date:	2/18/2021	Start Time:	12:00PM	End Time:	12:05PM		
Weather Condition:				Last Rainfall Date:	2/18/2021		
Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
Dry Pond							
1. Standing water or wet spots?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Sediment or trash accumulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Low flow channels unobstructed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Wet Pond							
1. Removal of floating debris required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Visible oil/chemical presence?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Evidence of wave action?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Safety shelf erosion or failure?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Infiltration Basin							
1. Standing water or wet spots?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Sediment or trash accumulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Under drain functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

## STORMWATER POND INSPECTION

Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Vegetation</b>							
1. Adequate vegetation cover?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Appropriate vegetation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Presence of invasive or undesirable vegetation/woody growth?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Excessive nuisance aquatic vegetation present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Sediment Forebays</b>							
1. Is sediment accumulation >50%? If yes, then maintenance is needed immediately.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Evidence of excessive velocity/scour?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Maintenance access clear of obstructions?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Embankment &amp; Emergency Spillway</b>							
1. Is the spillway level?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Adequate Freeboard? (min 1' from top of bank to highest outlet)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Embankment erosion evident?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Cracking, bulging or sliding of embankment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Evidence of animal burrows?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Seepage evident on exterior face of embankment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Vertical & horizontal alignment of top of dam as per plans?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Emergency spillway clear of obstructions & debris?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Maintenance access clear of obstruction?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

### STORMWATER POND INSPECTION

Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Riser &amp; Outfall Spillway</b>							
1. Low flow orifice obstructed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Low flow trash rack debris/corrosion?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Weir trash rack debris/corrosion?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Excessive sediment accumulation inside the riser?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Sediment accumulation in outlet pipe?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Outfall channels functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Under drain functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Slope protection or rip-rap failures?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Other</b>							
1. Encroachments on pond or easement area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Complaints from residents?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Odor?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Mowing required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Graffiti removal needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Insects in excess?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Public hazards?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Summary:							
Inspector Remarks:							

## STORMWATER POND INSPECTION

Pond Information							
Pond ID:	0052	Pond Type:	Wet Pond				
Location:	Miniwauken Park East						
Subdivision:		Watershed:	Mukwonago				
Capacity:		Acres:					
Overflow Elev:		100 Year Elev:					
Year Constructed:		Date Input:					
Water Quality:		Owner:	Our Agency				
Inspection Details							
Inspector Name(s):	Kevin Van Aacken						
Inspection Date:	8/31/2021	Start Time:	09:25AM	End Time:	09:35AM		
Weather Condition:				Last Rainfall Date:	8/29/2021		
Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
Dry Pond							
1. Standing water or wet spots?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Sediment or trash accumulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Low flow channels unobstructed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Wet Pond							
1. Removal of floating debris required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Visible oil/chemical presence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Evidence of wave action?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Safety shelf erosion or failure?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Infiltration Basin							
1. Standing water or wet spots?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Sediment or trash accumulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Under drain functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

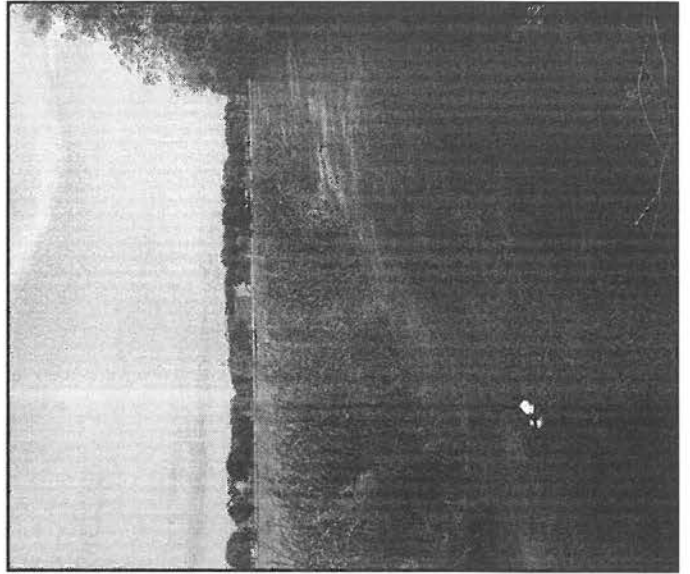
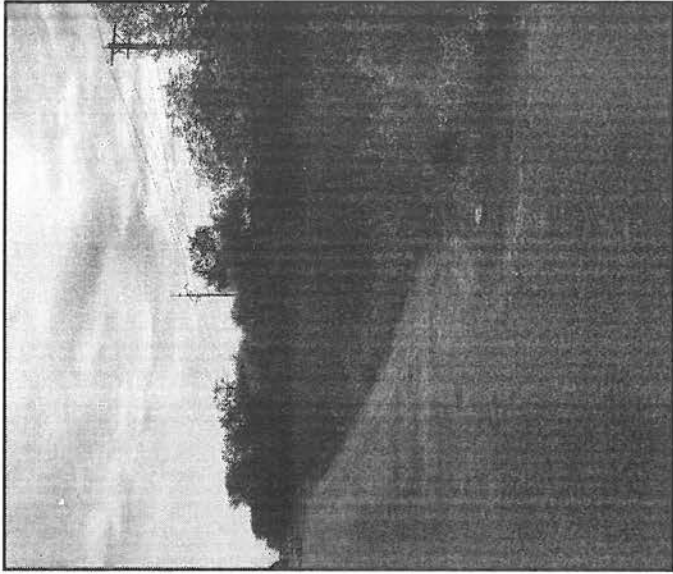
## STORMWATER POND INSPECTION

Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Vegetation</b>							
1. Adequate vegetation cover?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Appropriate vegetation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Presence of invasive or undesirable vegetation/woody growth?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Excessive nuisance aquatic vegetation present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Sediment Forebays</b>							
1. Is sediment accumulation >50%? If yes, then maintenance is needed immediately.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Evidence of excessive velocity/scour?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Maintenance access clear of obstructions?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Embankment &amp; Emergency Spillway</b>							
1. Is the spillway level?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Adequate Freeboard? (min 1' from top of bank to highest outlet)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Embankment erosion evident?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Cracking, bulging or sliding of embankment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Evidence of animal burrows?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Seepage evident on exterior face of embankment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Vertical & horizontal alignment of top of dam as per plans?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Emergency spillway clear of obstructions & debris?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Maintenance access clear of obstruction?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

### STORMWATER POND INSPECTION

Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Riser &amp; Outfall Spillway</b>							
1. Low flow orifice obstructed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Low flow trash rack debris/corrosion?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Weir trash rack debris/corrosion?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Excessive sediment accumulation inside the riser?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Sediment accumulation in outlet pipe?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Outfall channels functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Under drain functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Slope protection or rip-rap failures?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Other</b>							
1. Encroachments on pond or easement area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Complaints from residents?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Odor?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Mowing required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Graffiti removal needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Insects in excess?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Public hazards?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Summary:							
Inspector Remarks:							





## STORMWATER POND INSPECTION

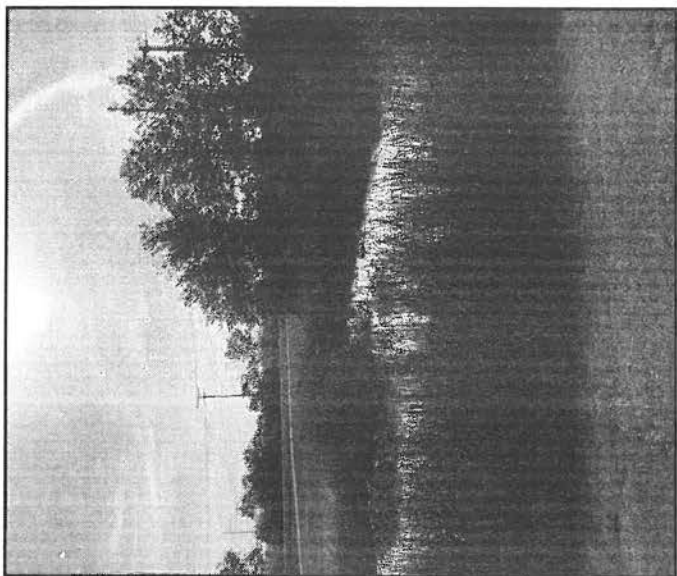
Pond Information							
Pond ID:	0050	Pond Type:	Wet Pond				
Location:	Holz Pkwy. N of Mukwonago River						
Subdivision:		Watershed:	Mukwonago				
Capacity:		Acres:					
Overflow Elev:		100 Year Elev:					
Year Constructed:		Date Input:					
Water Quality:		Owner:	Our Agency				
Inspection Details							
Inspector Name(s):	Kevin Van Aacken						
Inspection Date:	8/30/2021	Start Time:	01:20PM	End Time:	01:35PM		
Weather Condition:	Clear and sunny			Last Rainfall Date:	8/29/2021		
Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
Dry Pond							
1. Standing water or wet spots?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Sediment or trash accumulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Low flow channels unobstructed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Wet Pond							
1. Removal of floating debris required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Visible oil/chemical presence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Evidence of wave action?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Safety shelf erosion or failure?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Infiltration Basin							
1. Standing water or wet spots?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Sediment or trash accumulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Under drain functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

## STORMWATER POND INSPECTION

Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Vegetation</b>							
1. Adequate vegetation cover?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Appropriate vegetation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Presence of invasive or undesirable vegetation/woody growth?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Excessive nuisance aquatic vegetation present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Sediment Forebays</b>							
1. Is sediment accumulation >50%? If yes, then maintenance is needed immediately.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Evidence of excessive velocity/scour?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Maintenance access clear of obstructions?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Embankment &amp; Emergency Spillway</b>							
1. Is the spillway level?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Adequate Freeboard? (min 1' from top of bank to highest outlet)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Embankment erosion evident?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Cracking, bulging or sliding of embankment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Evidence of animal burrows?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. Seepage evident on exterior face of embankment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7. Vertical & horizontal alignment of top of dam as per plans?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. Emergency spillway clear of obstructions & debris?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9. Maintenance access clear of obstruction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

### STORMWATER POND INSPECTION

Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Riser &amp; Outfall Spillway</b>							
1. Low flow orifice obstructed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Low flow trash rack debris/corrosion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Weir trash rack debris/corrosion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Excessive sediment accumulation inside the riser?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Sediment accumulation in outlet pipe?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. Outfall channels functioning?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7. Under drain functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Slope protection or rip-rap failures?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Other</b>							
1. Encroachments on pond or easement area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Complaints from residents?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Odor?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Mowing required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Graffiti removal needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Insects in excess?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Public hazards?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Summary:							
Inspector Remarks:							



## STORMWATER POND INSPECTION

Pond Information							
Pond ID:	0072	Pond Type:	Infiltration Basin				
Location:	1111 Fox Street						
Subdivision:		Watershed:	Mukwonago				
Capacity:		Acres:					
Overflow Elev:		100 Year Elev:					
Year Constructed:		Date Input:					
Water Quality:		Owner:	Our Agency				
Inspection Details							
Inspector Name(s):	Kevin Van Aacken						
Inspection Date:	8/31/2021	Start Time:	09:55AM	End Time:	10:10AM		
Weather Condition:	Clear			Last Rainfall Date:	8/29/2021		
Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
Dry Pond							
1. Standing water or wet spots?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Sediment or trash accumulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Low flow channels unobstructed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Wet Pond							
1. Removal of floating debris required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Visible oil/chemical presence?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Evidence of wave action?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Safety shelf erosion or failure?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Infiltration Basin							
1. Standing water or wet spots?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Sediment or trash accumulation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Under drain functioning?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

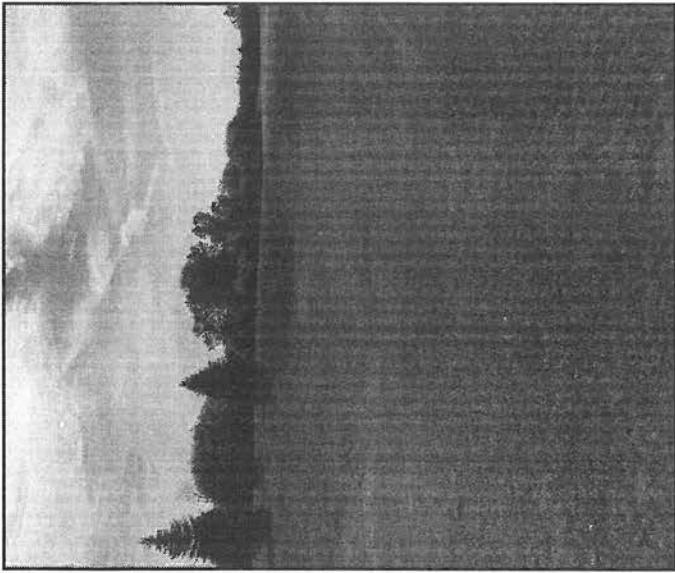
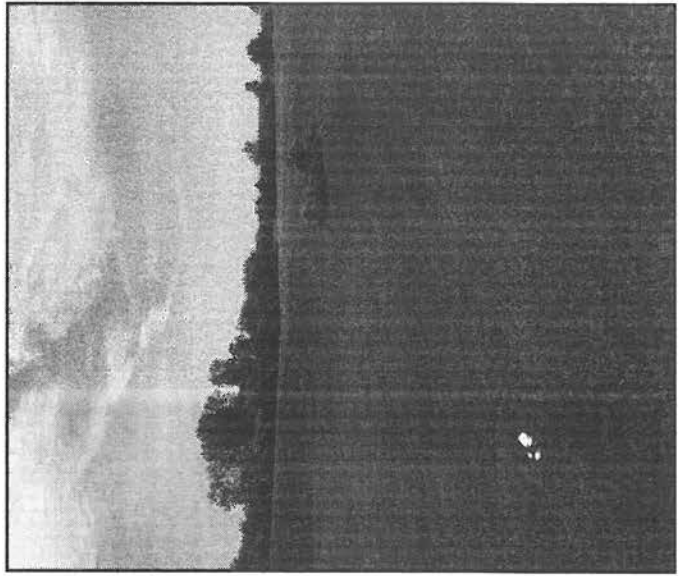
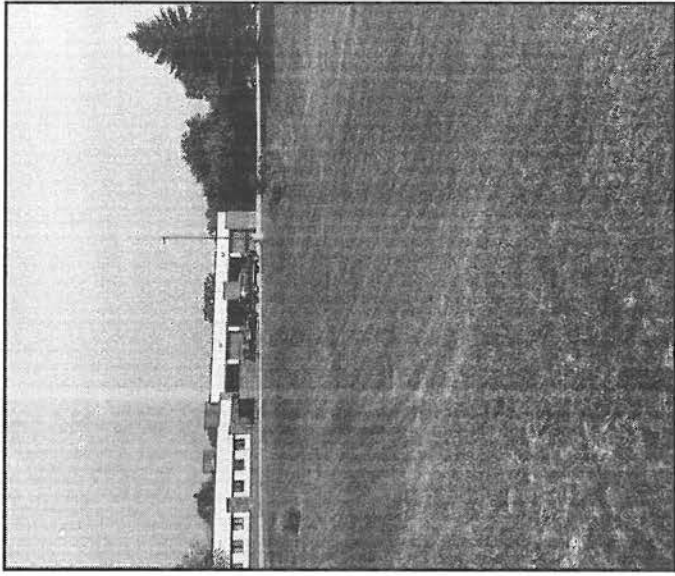
## STORMWATER POND INSPECTION

Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Vegetation</b>							
1. Adequate vegetation cover?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Appropriate vegetation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Presence of invasive or undesirable vegetation/woody growth?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Excessive nuisance aquatic vegetation present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Sediment Forebays</b>							
1. Is sediment accumulation >50%? If yes, then maintenance is needed immediately.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Evidence of excessive velocity/scour?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Maintenance access clear of obstructions?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Embankment &amp; Emergency Spillway</b>							
1. Is the spillway level?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Adequate Freeboard? (min 1' from top of bank to highest outlet)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Embankment erosion evident?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Cracking, bulging or sliding of embankment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Evidence of animal burrows?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Seepage evident on exterior face of embankment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Vertical & horizontal alignment of top of dam as per plans?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Emergency spillway clear of obstructions & debris?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Maintenance access clear of obstruction?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

### STORMWATER POND INSPECTION

Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Riser &amp; Outfall Spillway</b>							
1. Low flow orifice obstructed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Low flow trash rack debris/corrosion?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Weir trash rack debris/corrosion?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Excessive sediment accumulation inside the riser?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Sediment accumulation in outlet pipe?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Outfall channels functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Under drain functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Slope protection or rip-rap failures?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Other</b>							
1. Encroachments on pond or easement area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Complaints from residents?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Odor?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Mowing required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Graffiti removal needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Insects in excess?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Public hazards?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Summary:							
Inspector Remarks:							





## STORMWATER POND INSPECTION

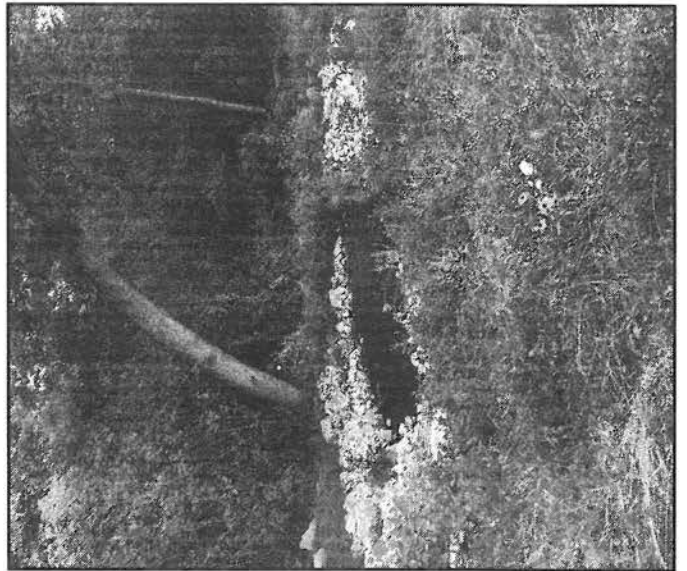
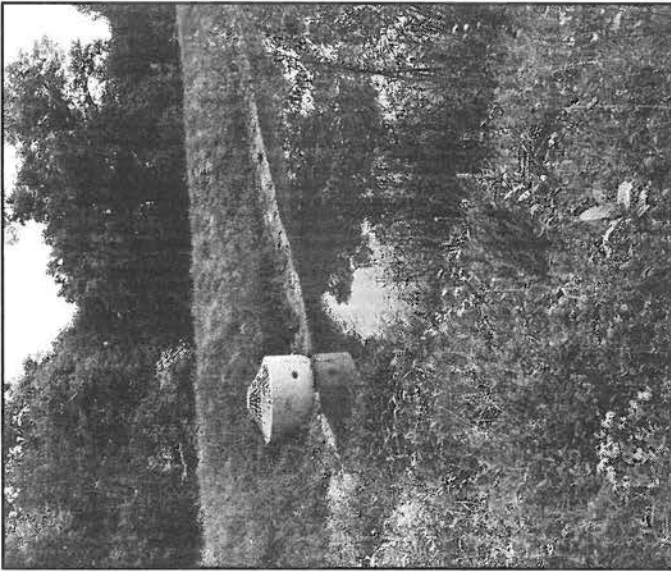
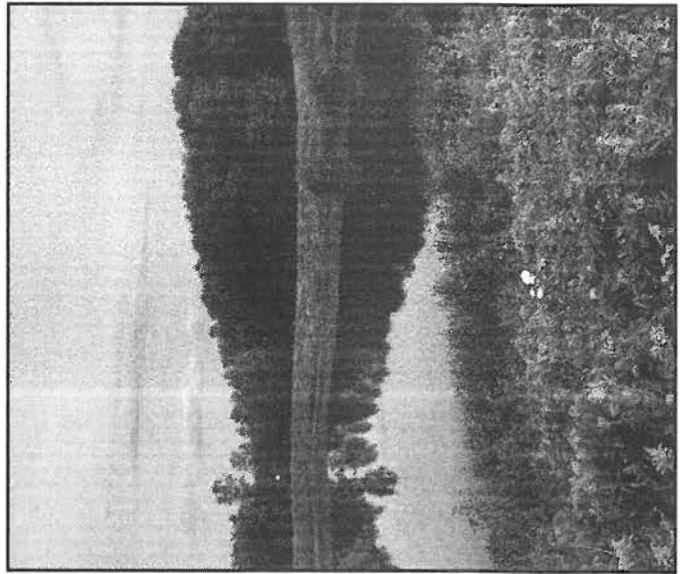
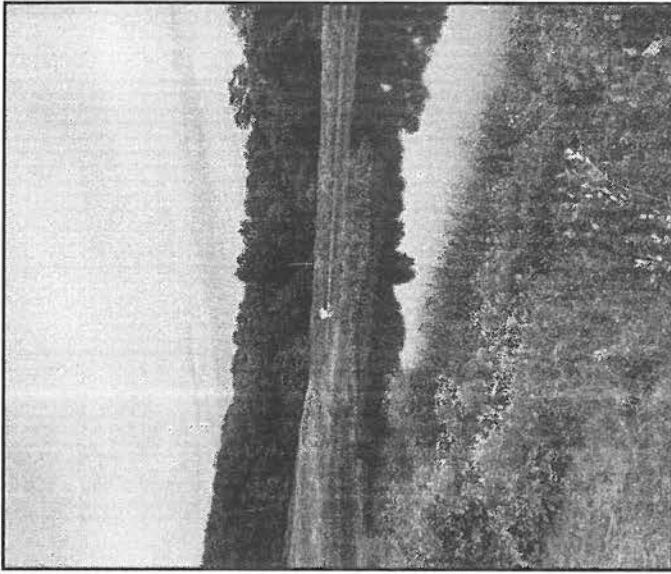
Pond Information							
Pond ID:	0005	Pond Type:	Wet Pond				
Location:	E. Veterans Way						
Subdivision:	Village Owned	Watershed:	Fox				
Capacity:		Acres:					
Overflow Elev:		100 Year Elev:					
Year Constructed:		Date Input:					
Water Quality:		Owner:	Our Agency				
Inspection Details							
Inspector Name(s):	Kevin Van Aa						
Inspection Date:	8/31/2021	Start Time:	10:15AM	End Time:	10:30AM		
Weather Condition:				Last Rainfall Date:	8/29/2021		
Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
Dry Pond							
1. Standing water or wet spots?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Sediment or trash accumulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Low flow channels unobstructed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Wet Pond							
1. Removal of floating debris required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Visible oil/chemical presence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Evidence of wave action?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Safety shelf erosion or failure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Infiltration Basin							
1. Standing water or wet spots?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Sediment or trash accumulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Under drain functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

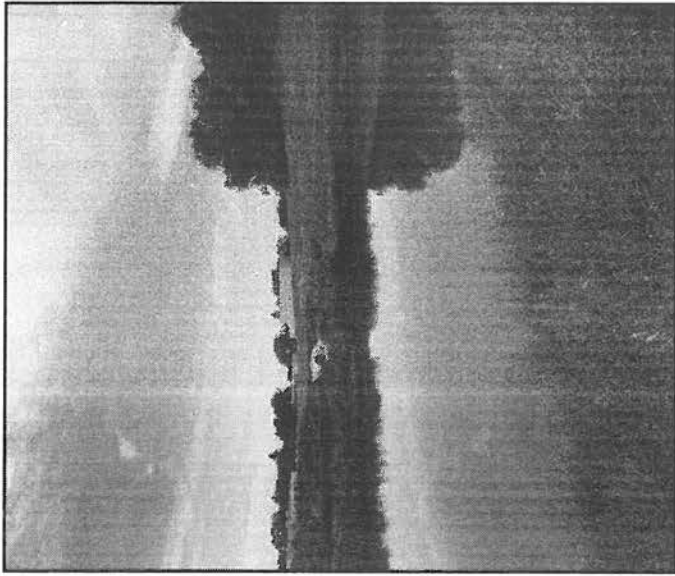
## STORMWATER POND INSPECTION

Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Vegetation</b>							
1. Adequate vegetation cover?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Appropriate vegetation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Presence of invasive or undesirable vegetation/woody growth?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Excessive nuisance aquatic vegetation present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Sediment Forebays</b>							
1. Is sediment accumulation >50%? If yes, then maintenance is needed immediately.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Evidence of excessive velocity/scour?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Maintenance access clear of obstructions?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Embankment &amp; Emergency Spillway</b>							
1. Is the spillway level?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Adequate Freeboard? (min 1' from top of bank to highest outlet)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Embankment erosion evident?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Cracking, bulging or sliding of embankment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Evidence of animal burrows?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. Seepage evident on exterior face of embankment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7. Vertical & horizontal alignment of top of dam as per plans?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Emergency spillway clear of obstructions & debris?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9. Maintenance access clear of obstruction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

### STORMWATER POND INSPECTION

Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Riser &amp; Outfall Spillway</b>							
1. Low flow orifice obstructed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Low flow trash rack debris/corrosion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Weir trash rack debris/corrosion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Excessive sediment accumulation inside the riser?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Sediment accumulation in outlet pipe?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. Outfall channels functioning?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7. Under drain functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Slope protection or rip-rap failures?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Other</b>							
1. Encroachments on pond or easement area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Complaints from residents?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Odor?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Mowing required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Graffiti removal needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Insects in excess?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7. Public hazards?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Summary:							
Inspector Remarks:							





## STORMWATER POND INSPECTION

Pond Information							
Pond ID:	0040	Pond Type:	Wet Pond				
Location:	East Termini of E. Wolf Run						
Subdivision:		Watershed:	Mukwonago				
Capacity:		Acres:					
Overflow Elev:		100 Year Elev:					
Year Constructed:		Date Input:					
Water Quality:		Owner:	Our Agency				
Inspection Details							
Inspector Name(s):	Kevin Van Aacken						
Inspection Date:	8/30/2021	Start Time:	12:52PM	End Time:	01:15PM		
Weather Condition:	Clear and sunny			Last Rainfall Date:	8/29/2021		
Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
Dry Pond							
1. Standing water or wet spots?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Sediment or trash accumulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Low flow channels unobstructed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Wet Pond							
1. Removal of floating debris required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Visible oil/chemical presence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Evidence of wave action?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Safety shelf erosion or failure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Infiltration Basin							
1. Standing water or wet spots?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Sediment or trash accumulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Under drain functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

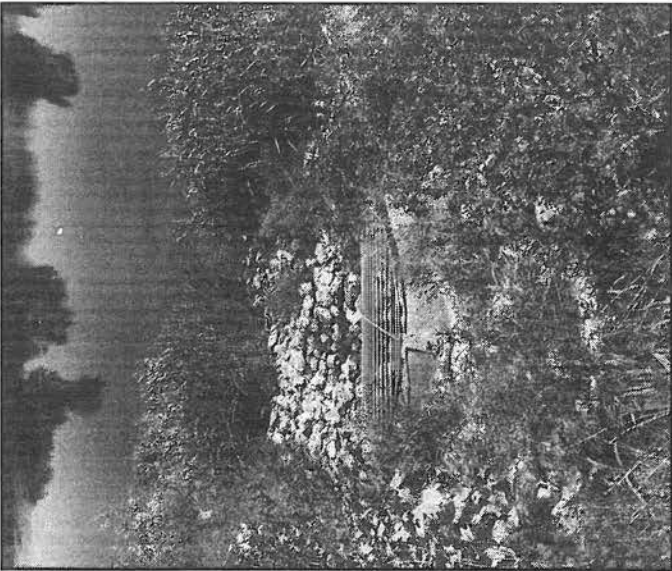
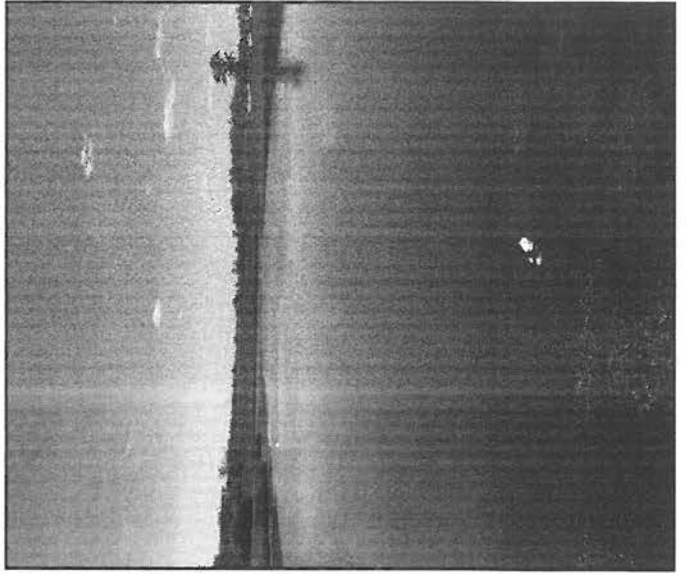
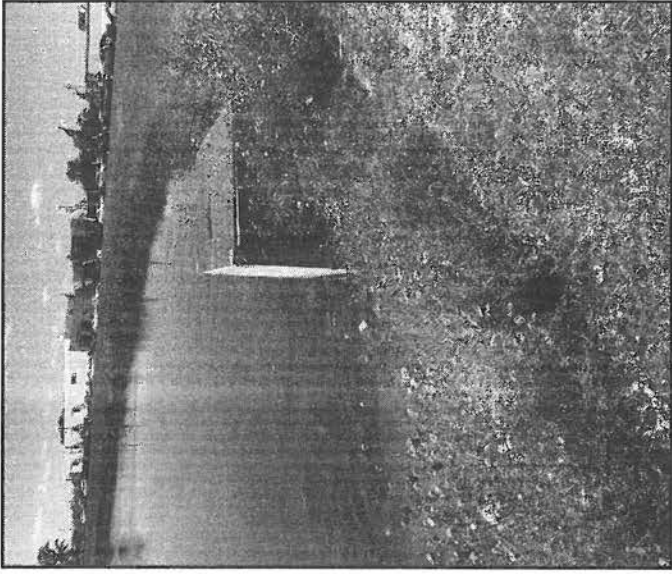
## STORMWATER POND INSPECTION

Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Vegetation</b>							
1. Adequate vegetation cover?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Appropriate vegetation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Presence of invasive or undesirable vegetation/woody growth?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Excessive nuisance aquatic vegetation present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Sediment Forebays</b>							
1. Is sediment accumulation >50%? If yes, then maintenance is needed immediately.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Evidence of excessive velocity/scour?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Maintenance access clear of obstructions?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Embankment &amp; Emergency Spillway</b>							
1. Is the spillway level?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Adequate Freeboard? (min 1' from top of bank to highest outlet)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Embankment erosion evident?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Cracking, bulging or sliding of embankment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Evidence of animal burrows?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. Seepage evident on exterior face of embankment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7. Vertical & horizontal alignment of top of dam as per plans?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Emergency spillway clear of obstructions & debris?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9. Maintenance access clear of obstruction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	



### STORMWATER POND INSPECTION

Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Riser &amp; Outfall Spillway</b>							
1. Low flow orifice obstructed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Low flow trash rack debris/corrosion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Weir trash rack debris/corrosion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Excessive sediment accumulation inside the riser?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Sediment accumulation in outlet pipe?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. Outfall channels functioning?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7. Under drain functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Slope protection or rip-rap failures?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Other</b>							
1. Encroachments on pond or easement area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Complaints from residents?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Odor?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Mowing required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Graffiti removal needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Insects in excess?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Public hazards?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Summary:							
Inspector Remarks:							



## STORMWATER POND INSPECTION

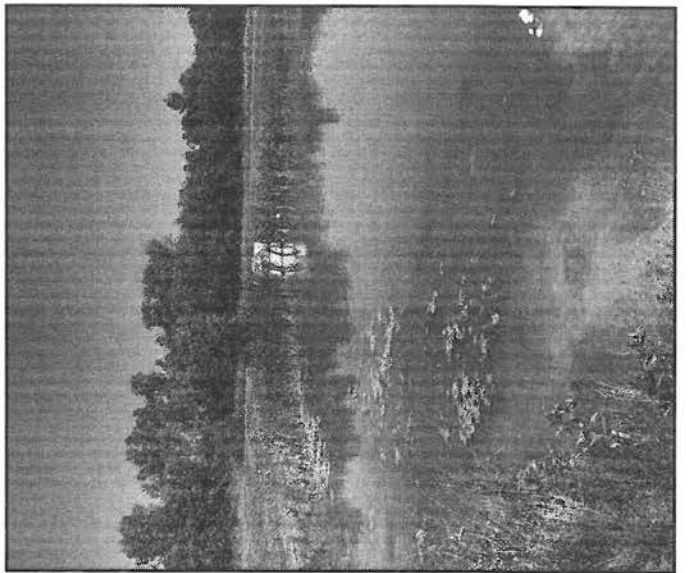
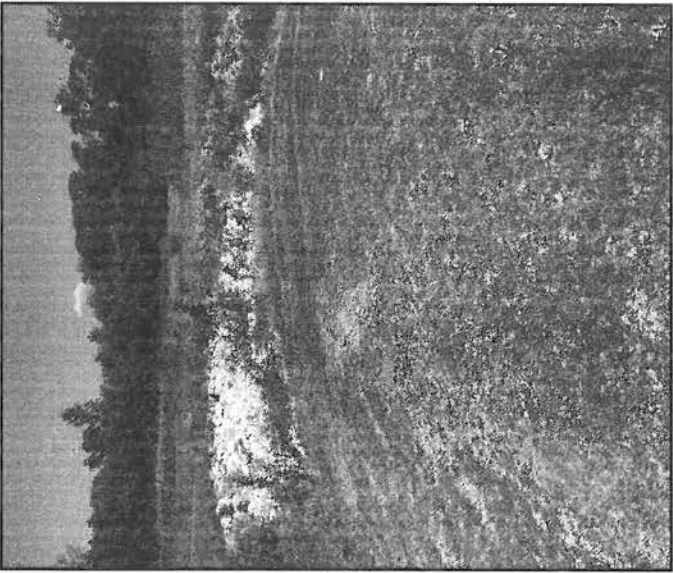
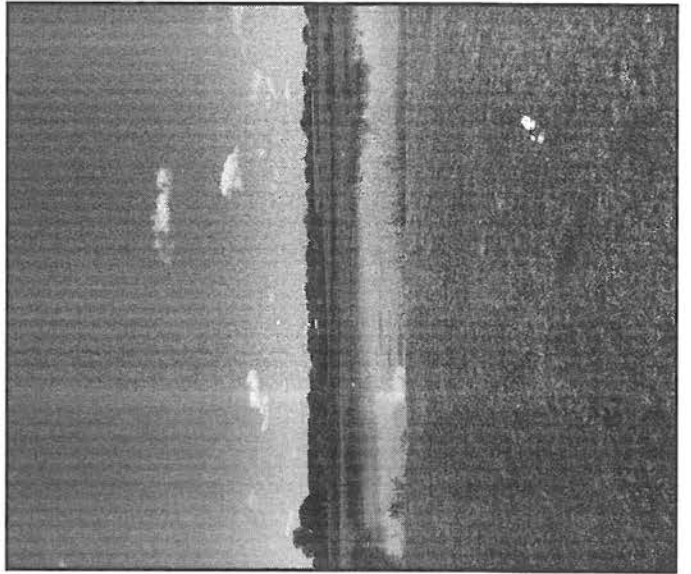
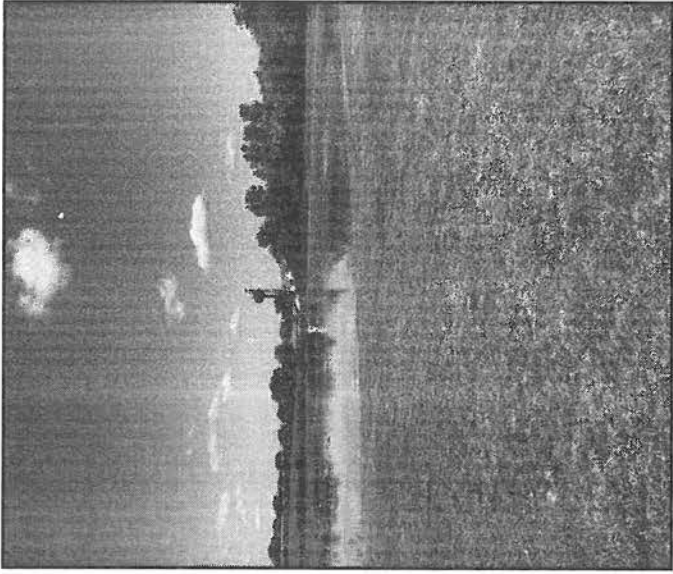
Pond Information							
Pond ID:	0034	Pond Type:	Wet Pond				
Location:	Dewey Drive						
Subdivision:	Dewey Dr. Industrial Park	Watershed:	Mukwonago				
Capacity:		Acres:					
Overflow Elev:		100 Year Elev:					
Year Constructed:		Date Input:					
Water Quality:		Owner:	Our Agency				
Inspection Details							
Inspector Name(s):	Kevin Van Aacken						
Inspection Date:	8/30/2021	Start Time:	11:05AM	End Time:	11:30AM		
Weather Condition:	Clear and sunny			Last Rainfall Date:	8/29/2021		
Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
Dry Pond							
1. Standing water or wet spots?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Sediment or trash accumulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Low flow channels unobstructed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Wet Pond							
1. Removal of floating debris required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Visible oil/chemical presence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Evidence of wave action?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Safety shelf erosion or failure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Infiltration Basin							
1. Standing water or wet spots?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Sediment or trash accumulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Under drain functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

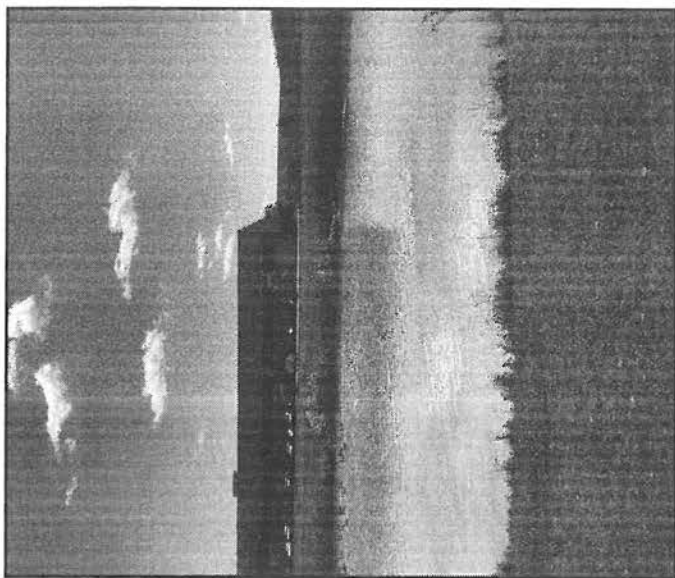
## STORMWATER POND INSPECTION

Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Vegetation</b>							
1. Adequate vegetation cover?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Appropriate vegetation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Presence of invasive or undesirable vegetation/woody growth?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Excessive nuisance aquatic vegetation present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Sediment Forebays</b>							
1. Is sediment accumulation >50%? If yes, then maintenance is needed immediately.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Evidence of excessive velocity/scour?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Maintenance access clear of obstructions?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Embankment &amp; Emergency Spillway</b>							
1. Is the spillway level?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Adequate Freeboard? (min 1' from top of bank to highest outlet)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Embankment erosion evident?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Cracking, bulging or sliding of embankment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Evidence of animal burrows?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. Seepage evident on exterior face of embankment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Vertical & horizontal alignment of top of dam as per plans?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Emergency spillway clear of obstructions & debris?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Maintenance access clear of obstruction?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

### STORMWATER POND INSPECTION

Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Riser &amp; Outfall Spillway</b>							
1. Low flow orifice obstructed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Low flow trash rack debris/corrosion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Weir trash rack debris/corrosion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Excessive sediment accumulation inside the riser?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Sediment accumulation in outlet pipe?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. Outfall channels functioning?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7. Under drain functioning?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. Slope protection or rip-rap failures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Other</b>							
1. Encroachments on pond or easement area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Complaints from residents?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Odor?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Mowing required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Graffiti removal needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Insects in excess?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7. Public hazards?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Summary:							
Inspector Remarks:							





## STORMWATER POND INSPECTION

Pond Information									
Pond ID:	0083	Pond Type:	Wet Pond						
Location:	TID#5 Pond 1								
Subdivision:		Watershed:							
Capacity:		Acres:							
Overflow Elev:		100 Year Elev:							
Year Constructed:		Date Input:							
Water Quality:		Owner:	Our Agency						
Inspection Details									
Inspector Name(s):	Kevin Van Aacken								
Inspection Date:	8/30/2021	Start Time:	09:40AM	End Time:	09:55AM				
Weather Condition:					Last Rainfall Date:	8/29/2021			
Issue	Checked			Maintenance Needed			Comments		
	Y	N	N/A	Y	N	N/A			
Dry Pond									
1. Standing water or wet spots?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
2. Sediment or trash accumulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
3. Low flow channels unobstructed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Wet Pond									
1. Removal of floating debris required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
2. Visible oil/chemical presence?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
3. Evidence of wave action?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
4. Safety shelf erosion or failure?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
5. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Infiltration Basin									
1. Standing water or wet spots?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
2. Sediment or trash accumulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
3. Under drain functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			



## STORMWATER POND INSPECTION

Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Vegetation</b>							
1. Adequate vegetation cover?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Appropriate vegetation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Presence of invasive or undesirable vegetation/woody growth?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Excessive nuisance aquatic vegetation present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Sediment Forebays</b>							
1. Is sediment accumulation >50%? If yes, then maintenance is needed immediately.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Evidence of excessive velocity/scour?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Maintenance access clear of obstructions?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Embankment &amp; Emergency Spillway</b>							
1. Is the spillway level?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Adequate Freeboard? (min 1' from top of bank to highest outlet)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Embankment erosion evident?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Cracking, bulging or sliding of embankment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Evidence of animal burrows?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Seepage evident on exterior face of embankment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Vertical & horizontal alignment of top of dam as per plans?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Emergency spillway clear of obstructions & debris?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Maintenance access clear of obstruction?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

### STORMWATER POND INSPECTION

Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Riser &amp; Outfall Spillway</b>							
1. Low flow orifice obstructed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Low flow trash rack debris/corrosion?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Weir trash rack debris/corrosion?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Excessive sediment accumulation inside the riser?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Sediment accumulation in outlet pipe?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Outfall channels functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Under drain functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Slope protection or rip-rap failures?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Other</b>							
1. Encroachments on pond or easement area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Complaints from residents?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Odor?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Mowing required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Graffiti removal needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Insects in excess?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Public hazards?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Summary:							
Inspector Remarks:							

## STORMWATER POND INSPECTION

Pond Information							
Pond ID:	0084	Pond Type:	Wet Pond				
Location:	TID #5 Pond 2						
Subdivision:		Watershed:					
Capacity:		Acres:					
Overflow Elev:		100 Year Elev:					
Year Constructed:		Date Input:					
Water Quality:		Owner:	Our Agency				
Inspection Details							
Inspector Name(s):	Kevin Van Aacken						
Inspection Date:	8/30/2021	Start Time:	10:15AM	End Time:	10:51AM		
Weather Condition:				Last Rainfall Date:	8/29/2021		
Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
Dry Pond							
1. Standing water or wet spots?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Sediment or trash accumulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Low flow channels unobstructed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Wet Pond							
1. Removal of floating debris required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Visible oil/chemical presence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Evidence of wave action?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Safety shelf erosion or failure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Infiltration Basin							
1. Standing water or wet spots?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Sediment or trash accumulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Under drain functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

## STORMWATER POND INSPECTION

Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Vegetation</b>							
1. Adequate vegetation cover?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Appropriate vegetation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Presence of invasive or undesirable vegetation/woody growth?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Excessive nuisance aquatic vegetation present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Sediment Forebays</b>							
1. Is sediment accumulation >50%? If yes, then maintenance is needed immediately.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Evidence of excessive velocity/scour?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Maintenance access clear of obstructions?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Embankment &amp; Emergency Spillway</b>							
1. Is the spillway level?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Adequate Freeboard? (min 1' from top of bank to highest outlet)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Embankment erosion evident?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Cracking, bulging or sliding of embankment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Evidence of animal burrows?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. Seepage evident on exterior face of embankment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7. Vertical & horizontal alignment of top of dam as per plans?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Emergency spillway clear of obstructions & debris?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Maintenance access clear of obstruction?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

### STORMWATER POND INSPECTION

Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Riser &amp; Outfall Spillway</b>							
1. Low flow orifice obstructed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Low flow trash rack debris/corrosion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Weir trash rack debris/corrosion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Excessive sediment accumulation inside the riser?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Sediment accumulation in outlet pipe?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. Outfall channels functioning?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7. Under drain functioning?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Slope protection or rip-rap failures?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Other</b>							
1. Encroachments on pond or easement area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Complaints from residents?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Odor?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Mowing required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Graffiti removal needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Insects in excess?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7. Public hazards?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. Other?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Summary:							
Inspector Remarks:							

