

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

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

## Reporting Information

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

**Project Name:** MS4 Annual Report

**County:** Waukesha

**Municipality:** Mukwonago, Village

**Permit Number:** S050075

**Facility Number:** 35717

**Reporting Year:** 2019

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 (*S050075-03 general permittees shall have a written storm water management program that describes in detail how the permittee intends to comply with the permit requirements for each minimum control measure. Updated programs are due to the department by March 31, 2021.*)
    - 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 (*S050075-03 general permittees 2.6.1 - inventory due to the department by March 31, 2021.*)
      - Municipal Storm Water Management Facility (BMP) Inspection and Maintenance Plan (*S050075-03 general permittees 2.6.2 – document due to the department by March 31, 2021.*)
  
- 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  
 IDDE Program

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

- IDDE Response Procedure Manual
- Municipal-wide Water Quality Plan
- Ordinances
- Pollution Prevention Program
- Post-Construction Program
- Winter roadway maintenance

**First Name:**

**Last Name:**

**Title:**

**Mailing Address:**

**Mailing Address 2:**

**City:**

**State:**

WI

**Zip Code:**

 XXXXX or XXXXX-XXXX

**Phone Number:**

 Ext:  XXX-XXX-XXXX

**Email:**

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

Yes  No

Public Education and Outreach: 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 (08/19)

## Minimum Control Measures- Section 1 : Complete

### 1. Public Education and Outreach

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

<b>Topic:</b> Detection and elimination of illicit discharges			
<b>Mechanism</b>	<b>Quantity</b> (optional)	<b>Est. People Reached</b> (optional)	<b>Regional Effort?</b> (optional)
Informational booth at event	1 - 9	100 +	<input checked="" type="radio"/> Yes <input type="radio"/> No

Select all applicable audiences targeted for this topic.

- Contractors  General Public  Public Employees  Residential  School Groups  
 Business  Developers  Industries  Other:

<b>Topic:</b> Management of materials that may cause storm water pollution from automobiles, pet waste, household hazardous waste and household practices			
<b>Mechanism</b>	<b>Quantity</b> (optional)	<b>Est. People Reached</b> (optional)	<b>Regional Effort?</b> (optional)
Educational activities (School presentations, summer camps, etc)	50 - 99	100 +	<input checked="" type="radio"/> Yes <input type="radio"/> No
Social media posts	1 - 9	100 +	<input checked="" type="radio"/> Yes <input type="radio"/> No
Active distribution of print media (mailings, newsletters, etc)	1 - 9	50 - 99	<input checked="" type="radio"/> Yes <input type="radio"/> No
Website	1 - 9	100 +	<input checked="" type="radio"/> Yes <input type="radio"/> No
Government event (public hearing, council meeting, etc.)	10 - 19	1 - 9	<input type="radio"/> Yes <input checked="" type="radio"/> No
Direct one-on-one communication	1 - 9	1 - 9	<input type="radio"/> Yes <input checked="" type="radio"/> No
Passive print media (brochures at front desk, posters, etc.)	1 - 9	Select...	<input checked="" type="radio"/> Yes <input type="radio"/> No

Select all applicable audiences targeted for this topic.

- Contractors  General Public  Public Employees  Residential  School Groups  
 Business  Developers  Industries  Other:

**Topic:** Beneficial onsite reuse of leaves and grass clippings/proper use of lawn and

garden fertilizers and pesticides			
Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
Educational activities (School presentations, summer camps, etc)	50 - 99	100 +	<input checked="" type="radio"/> Yes <input type="radio"/> No
Active distribution of print media (mailings, newsletters, etc)	1 - 9	100 +	<input checked="" type="radio"/> Yes <input type="radio"/> No
Informational booth at event	20 - 49	100 +	<input checked="" type="radio"/> Yes <input type="radio"/> No
Website	1 - 9	Select...	<input checked="" type="radio"/> Yes <input type="radio"/> No
Social media posts	1 - 9	100 +	<input checked="" type="radio"/> Yes <input type="radio"/> No

Select all applicable audiences targeted for this topic.

- Contractors
  General Public
  Public Employees
  Residential
  School Groups  
 Business
  Developers
  Industries
  Other:

Topic: Management of stream banks and shorelines by riparian landowners to minimize erosion and restore and enhance the ecological value of waterways			
Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
Informational booth at event	1 - 9	100 +	<input checked="" type="radio"/> Yes <input type="radio"/> No
Educational activities (School presentations, summer camps, etc)	1 - 9	100 +	<input checked="" type="radio"/> Yes <input type="radio"/> No

Select all applicable audiences targeted for this topic.

- Contractors
  General Public
  Public Employees
  Residential
  School Groups  
 Business
  Developers
  Industries
  Other:

Topic: Infiltration of residential storm water runoff from rooftop downspouts, driveways and sidewalks			
Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
Educational activities (School presentations, summer camps, etc)	50 - 99	100 +	<input checked="" type="radio"/> Yes <input type="radio"/> No
Website	1 - 9	100 +	<input checked="" type="radio"/> Yes <input type="radio"/> No
Social media posts	1 - 9	100 +	<input checked="" type="radio"/> Yes <input type="radio"/> No
Active distribution of print media (mailings, newsletters)	1 - 9	100 +	<input checked="" type="radio"/> Yes <input type="radio"/> No
Passive print media (brochures at front desk, posters, etc.)	1 - 9	Select...	<input checked="" type="radio"/> Yes <input type="radio"/> No

Select all applicable audiences targeted for this topic.

- Contractors
  General Public
  Public Employees
  Residential
  School Groups  
 Business
  Developers
  Industries
  Other:

**Topic:** Inform and where appropriate educate those responsible for the design, installation, and maintenance of construction site erosion control practices and storm water management facilities on how to design, install and maintain the practices

Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
Targeted group training (contractors, consultants, etc.)	<u>1 - 9</u>	<u>100 +</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No
Educational activities (School presentations, summer camps, etc)	<u>1 - 9</u>	<u>20 - 49</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No

Select all applicable audiences targeted for this topic.

- Contractors
  General Public
  Public Employees
  Residential
  School Groups  
 Business
  Developers
  Industries
  Other:

**Topic:** Identify businesses and activities that may pose a storm water contamination concern, and where appropriate, educate specific audiences on methods of storm water pollution prevention

Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
Targeted group training (contractors, consultants, etc.)	<u>1 - 9</u>	<u>1 - 9</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No

Select all applicable audiences targeted for this topic.

- Contractors
  General Public
  Public Employees
  Residential
  School Groups  
 Business
  Developers
  Industries
  Other:

**Topic:** Promote environmentally sensitive land development designs by developers and designers, including green infrastructure and low impact development

Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
Targeted group training (contractors, consultants, etc.)	<u>1 - 9</u>	<u>100 +</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No
Educational activities (School presentations, summer camps, etc)	<u>1 - 9</u>	<u>20 - 49</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No

Select all applicable audiences targeted for this topic.

- Contractors
  General Public
  Public Employees
  Residential
  School Groups  
 Business
  Developers
  Industries
  Other:

Select all applicable audiences targeted for this topic.

- Contractors  General Public  Public Employees  Residential  School Groups  
 Business  Developers  Industries  Other:

b. Brief Public Education and Outreach program information for inclusion in the Annual Report. If your response exceeds the 250 character limit, attach supplemental information on the attachments page.

See attached document.

## 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 (08/19)

## Minimum Control Measures - Section 2 : Complete

### 2. Public Involvement and Participation

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

Topic: Storm Water Management Plan and/or updates			
Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
Government Event (Public Hearing, Council Meeting, etc)	1 - 9	10 - 19	<input type="radio"/> Yes <input checked="" type="radio"/> No

Select all applicable participants targeted for this topic.

- Contractors  General Public  Public Employees  Residential  School Groups  
 Business  Developers  Industries  Other:

Topic: Storm water related ordinance and/or updates			
Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)

Select all applicable participants targeted for this topic.

- Contractors  General Public  Public Employees  Residential  School Groups  
 Business  Developers  Industries  Other:

Topic: MS4 Annual Report



Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
Government Event (Public Hearing, Council Meeting, etc)	1 - 9	10 - 19	<input type="radio"/> Yes <input checked="" type="radio"/> No
Website	1 - 9	100 +	<input type="radio"/> Yes <input checked="" type="radio"/> No

Select all applicable participants targeted for this topic.

- Contractors  General Public  Public Employees  Residential  School Groups  
 Business  Developers  Industries  Other:

Topic: Volunteer Opportunities			
Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
Stream monitoring	1 - 9	50 - 99	<input checked="" type="radio"/> Yes <input type="radio"/> No
Public Workshop	10 - 19	100 +	<input checked="" type="radio"/> Yes <input type="radio"/> No

Select all applicable participants targeted for this topic.

- Contractors  General Public  Public Employees  Residential  School Groups  
 Business  Developers  Industries  Other:

Select all applicable participants targeted for this topic.

- Contractors  General Public  Public Employees  Residential  School Groups  
 Business  Developers  Industries  Other:

**b. Brief Public Involvement and Participation program information for inclusion in the Annual Report.**  
 If your response exceeds the 250 character limit, attach supplemental information on the attachments page.

See attached document.

**Missing Information**

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

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

Form 3400-224 (09/19)

**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   Unsure

of their routine ongoing field screening program?  
c. From the municipality's routine screening, how many were confirmed illicit discharges? 0  Unsure

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

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

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

(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 0
- Written Warning (including email)
- Notice of Violation
- Civil Penalty/ Citation

Additional Information:

h. Brief Illicit Discharge Detection and Elimination program information for inclusion in the Annual Report. If your response exceeds the 250 character limit, attach supplemental information on the attachments page.

See attached revised program

### 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 (08/19)

### Minimum Control Measures - Section 4 : Complete

#### 4. Construction Site Pollutant Control

a. How many total construction sites were active at any point in the reporting year? 24  Unsure

b. How many construction sites did the municipality issue permits for in the reporting year? 10  Unsure

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

d. How many erosion control inspections did the municipality complete in the reporting year? 375  Unsure

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

<input type="checkbox"/> No Authority	
<input type="checkbox"/> Verbal Warning	
<input checked="" type="checkbox"/> Written Warning (including email)	170
<input checked="" type="checkbox"/> Notice of Violation	170
<input type="checkbox"/> Civil Penalty/ Citation	
<input checked="" type="checkbox"/> Stop Work Order	3
<input type="checkbox"/> Forfeiture of Deposit	
<input type="checkbox"/> Other - Describe below	

f. Brief Construction Site Pollutant Control program information for inclusion in the Annual Report . If your response exceeds the 250 character limit, attach supplemental information on the attachments page.

See attached document

**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 (08/19)

**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. How many privately owned storm water management facilities were inspected in the reporting year ?   Unsure

Inspections completed by private land owners should be included in the reported number.

c. What types of enforcement actions does the municipality have available to compel compliance with the regulatory mechanism?  Unsure

Check all that apply and enter the number of each used in the reporting year.

<input type="checkbox"/> No Authority	
<input checked="" type="checkbox"/> Verbal Warning	2
<input checked="" type="checkbox"/> Written Warning (including email)	0
<input checked="" type="checkbox"/> Notice of Violation	0
<input type="checkbox"/> Civil Penalty/ Citation	

- Forfeiture of Deposit
- Complete Maintenance
- Bill Responsible Party
- Other - Describe below

d. Brief Post-Construction Storm Water Management program information for inclusion in the Annual Report . If your response exceeds the 250 character limit, attach supplemental information on the attachments page.

See attached document.

**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 (08/19)

**Minimum Control Measures - Section 6 : Complete**

**6. Pollution Prevention**

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

- a. Enter the total number of municipally owned or operated structural storm water 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)?

Ponds are inspected for animal borrows, erosion, invasive and woody vegetation, structure function and or damage, debris and contaminates.

- e. How many of these facilities required maintenance?   Unsure

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

- f. How many inspections of municipal properties have been conducted in the reporting year?   Unsure
- g. Have amendments to the SWPPPs been made?  Yes  No  Unsure
- h. If yes, describe what changes have been made (200 character limit):

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

- i. Did the municipality conduct street sweeping/cleaning during the reporting year?  
 Yes  No  Unsure
- j. If known, how many tons of material was removed?   Unsure
- k. Does the municipality have a low hazard exemption for this material?  
 Yes  No
- l. If street cleaning is identified as a storm water best management practice in the pollutant loading analysis, was street cleaning completed at the assumed frequency?  
 Yes  
 No - Explain \_\_\_\_\_  
 Not Applicable

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

- m. Did the municipality conduct catch basin sump cleaning during the reporting year?  
 Yes  No  Unsure
- n. How many catch basin sumps were cleaned in the reporting year?   Unsure
- o. If known, how many tons of material was collected?   Unsure
- p. Does the municipality have a low hazard exemption for this material?  
 Yes  No
- q. If catch basin sump cleaning is identified as a storm water best management practice in the pollutant loading analysis, was cleaning completed at the assumed frequency?  
 Yes  
 No - Explain \_\_\_\_\_  
 Not Applicable

**Collection Services - Leaf Collection Program**  Not Applicable

- r. Does the municipality conduct curbside leaf collection?  
 Yes  No  Unsure
- s. Does the municipality notify homeowners about pickup?  
 Yes  No  Unsure
- t. Where are the residents directed to store the leaves for collection?  
 Pile on terrace  Pile in street  Bags on terrace  Unsure  
 Other - Describe \_\_\_\_\_
- u. What is the frequency of collection?  
 Two fall yard waste events are conducted targeting leaf collection.
- v. Is collection followed by street sweeping/cleaning?  
 Yes  No  Unsure

**Winter Road Management**  Not Applicable

- \*Note: We are requesting information that goes beyond the reporting year, answer the best you can.
- w. How many lane-miles of roadway is the municipality   Unsure

responsible for doing snow and ice control?

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

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

Product	Oct	Nov	Dec	Jan	Feb	Mar
Salt	26	109	63	269	127	0

Liquids (gallons) (ex. brine)

	Oct	Nov	Dec	Jan	Feb	Mar
Pre-wetting compound	245	930	1723	2905	1009	0
Brine	0	875	0	5541	6212	0

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

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

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

APWA Winter Maintenance Supervisor Certificate Workshop (Green Bay)

When: 9/14/19 How many attended: 1

### Internal (Staff) Education & Communication

aa. 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):

Staff participates in the SWPP inspections as training. Street cleaning and the fundamentals of equipment operation are provided for new staff.

When: Throughout the year as o... How many attended: 6

ab. 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

Plan Commission and Board meetings

Municipal Officials

Staff and development meetings

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

Staff and development meeting, workshops, in-house training and presentations.

ac. Brief Pollution Prevention program information for inclusion in the Annual Report . If your response exceeds the 250 character limit, attach supplemental information on the attachments page.

See attached document.

## 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 (08/19)

### Minimum Control Measures - Section 7 : Complete

#### 7. Storm Sewer System Map

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

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

Storm water treatment facilities

Storm pipes

Vegetated swales

Outfalls

Other - Describe below

b. Brief Storm Sewer System Map information for inclusion in the Annual Report. If your response exceeds the 250 character limit, attach supplemental information on the attachments page.

Newly installed BMPs, storm pipe and IDDE inspection points were identified and added to the map.

**Missing Information**

Do not close your work until you SAVE.

Form 3400-224 (08/19)

**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
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**Element: Public Education and Outreach**

2547	2893	3294	<u>General revenue fund</u>
233	375	297	<u>Storm water utility</u>

**Element: Public Involvement and Participation**

2547	2893	3294	<u>General revenue fund</u>
233	375	297	<u>Storm water utility</u>

**Element: Illicit Discharge Detection and Elimination**

7637	8980	9732	<u>General revenue fund</u>
700	823	893	<u>Storm water utility</u>

**Element: Construction Site Pollutant Control**

2780	3268	3541	<u>General revenue fund</u>
5000	5000	5000	<u>Permit fee and/or deposit/escrow</u>

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

14654	17958	19463	<u>General revenue fund</u>
1344	1647	1785	<u>Storm water utility</u>

**Element: Pollution Prevention**

15893	17958	19463	<u>General revenue fund</u>
1457	1647	1785	<u>Storm water utility</u>



**Element: Storm Water Quality Management**

3563	4191	4543	<u>General revenue fund</u>
327	384	417	<u>Storm water utility</u>

**Element: Storm Sewer System Map**

1527	1795	1946	<u>General revenue fund</u>
140	165	179	<u>Storm water utility</u>

**Other (describe)**

		Select...

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

--

**Water Quality**

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

Yes  No  Unsure      If Yes, explain below:

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

Yes  No  Unsure      If Yes, explain below:

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

Yes  No  Unsure

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

Yes  No  Unsure

**Additional Information**

Based on the municipality's storm water program evaluation, describe any proposed changes to the municipality's storm water program. If your response exceeds the 250 character limit, attach supplemental information on the attachments page.

Provide written programs per current MS4 permit by 3/31/2021.
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## Missing Information

Do not close your work until you SAVE.

Form 3400-224 (08/19)

### 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**.

## 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


### Attach - Other Supporting Documents

#### AR EO

 File Attachment

[PublicInvolvementandParticipation.docx](#)

#### AR CSPC

 File Attachment

[ConstuctionSitePollutionControlProgram.docx](#)

#### AR IDDE

 File Attachment

[IDDEProgramRevisedNovember2019.pdf](#)

#### AR PP

 File Attachment

[PollutionPrevention.docx](#)

#### AR MuniFacInsp

 File Attachment

[2019SWPPInspections.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

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

## Missing Information

You must attach a Storm Sewer Map file,

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

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

[Draft and Share PDF Report with Municipality's Governing Body](#)

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

### **Complete and Submit Your Application**

You have not completed all areas of the application. Please return to the application and complete all missing items.

Contact Information: Complete

Minimum Control Measures Section 1: Complete

Minimum Control Measures Section 2: Complete

Minimum Control Measures Section 3: Complete

Minimum Control Measures Section 4: Complete

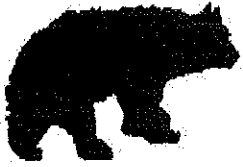
Minimum Control Measures Section 5: Complete

Minimum Control Measures Section 6: Complete

Minimum Control Measures Section 7: Complete

Attachments: Has Missing Items

Final Evaluation: Complete



## 2019 Storm Water Activity Report

### Public Involvement and Participation:

The Village partners with Waukesha County for public education and outreach.

- The public is involved in stream monitoring and a variety of workshops on composting, rain barrels, green cleaning and more. Engaging the public is the most effective strategy to achieve behavior changes and these workshops are very popular. Our volunteer stream monitors logged 591 hours of volunteer time visiting their sites, collecting information and loading data
- Village staff continue to meet with residents and H.O.A.s on stormwater and pond maintenance.
- Local Mukwonago businesses and community groups continue with annual cleanup events.
- Hosted Waukesha County at NNO where an interactive booth was displayed.
- Host site for Waukesha County electronic recycling.
- Host site for Waukesha County hazardous waste.
- Promote green infrastructure during pre-development meetings.
- Staff presented at the December Waukesha County Partner meeting (Outreach partnerships at the local level).
- The Village Shared MS4 Data with surrounding communities.
- Annual MS4 report was made available to the Village Board at a meeting.



## 2019 Storm Water Activity Report

### Public Education and Outreach:

The Village partners with Waukesha County for public education and outreach.

- The Waukesha County Stormwater public education and outreach collaborative provides subject matter experts in a variety of programs that the municipalities help to advertise and make available to their residents. The programs are very holistic in their approach. For example, composting programs do not only cover how to compost your yard waste materials, but how spreading compost on your yard can increase the infiltration and water holding capacity of your soils and decrease runoff as well. Programs always include the background education so residents understand how and why the action helps the environment. The most commonly provided activities are workshops, school programs and information booths. There are very few passive distributions. See the attached list of all activities and programs for 2019.
- Information regarding events and programs are linked on the Village's website.

Target Audience	Topic #	Program Title	Activity	Date	Location	# people	Description
Teachers and Students	2	live in a / Soils	presentation	1-3-19	Oconomowoc	27	Soil and water programs for 3 classes at Oconomowoc High School
Teachers and Students	2	live in a / Soils	presentation	1-3-19	Oconomowoc	27	Soil and water programs for 3 classes at Oconomowoc High School
Teachers and Students	2	live in a / Soils	presentation	1-3-19	Oconomowoc	27	Soil and water programs for 3 classes at Oconomowoc High School
Teachers and Students	2	live in a / Soils	presentation	1-9-19	Retzer	14	Kettle Moraine school program
Teachers and Students	2	live in a / Soils	presentation	1-9-19	Retzer	9	Pewaukee HS
General Public	2		news releases/articles	1-10-19		1	Press release including JanBoree activities at Retzer--outreach
General Public	8	HHE	Hazardous waste	1-14-19	Lisbon	16	3rd grade brownies from Richmond School
Contractors, Dev. & Consu	2		news releases/articles	1-21-19		66	stormwater workshop announcement to partner communities
General Public	4		Displays and handouts	1-25-19	New Berlin	50	staffed display at school district wellness event
Internal			Workshop	1-25-19		15	internal training for PLU dept staff dealing with soils, permits, etc
General Public	4		Displays and handouts	1-27-19	Retzer	474	staffed outreach at JanBoree
General Public	2		news releases/articles	1-30-19		1	spring workshop series announcement
Contractors, Dev. & Consu	2		news releases/articles	2-1-19		990	stormwater workshop announcement
General Public	2		news releases/articles	2-5-19		1	wild winter night press release
Contractors, Dev. & Consu	2		news releases/articles	2-11-19		105	Quarterly updates released
Teachers and Students	2		news releases/articles	2-11-19	WCTC	12	program for sustainable building class
Teachers and Students	2		news releases/articles	2-12-19	WCTC	11	program for sustainable building class
Teachers and Students	2	career	Presentation	2-8-19	New Berlin	127	Elmwood Elementary Career Day
General Public	6		Businesses	2-14-19		7	invitations to preschools to participate in native plant purchase
General Public	4		Displays and handouts	2-16-19	Retzer	130	staffed outreach at Wild Winter Night
General Public	10		Stream Monitoring	3-2-19	Retzer	39	volunteer appreciation event
General Public	2		news releases/articles	3-5-19		1	press release on home composting and workshop



Teachers and Students	2		Presentation	3-6-19	Sussex	33	monitoring activity and info for environmental club provided "Clean and Conserve" water activity guide
General Public	4		Displays and handouts	3-6-19	Sussex	75	for Hamilton hs
Teachers and Students	2	live in a	Presentation	3-6-19	Waukesha	20	Program for Banting elementary
Teachers and Students	2	live in a	Presentation	3-6-19	Waukesha	17	Program for Banting elementary
Teachers and Students	2	live in a	Presentation	3-6-19	Waukesha	21	Program for Banting elementary
Teachers and Students	2	career	Presentation	3-8-19	New Berlin	23	career day for Poplar Creek Elementary
General Public	9		Yard Waste Composting	3-9-19	Retzer	60	home composting workshop
General Public	7		rain garden and rain barrels	3-9-19	Retzer	60	rain garden/rain barrel workshop
General Public	7		rain garden and rain barrels	3-9-19	Retzer	12	rain barrel sale
General Public	8	HHE	Hazardous waste	3-12-19	Waukesha	20	St. Mary's Waukesha
Teachers and Students	2	Career	Presentation	3-15-19	New Berlin	56	Ronald Reagan Elementary career day
General Public	4		Displays and handouts	3-16-19	New Berlin	500	booth at Discover New Berlin Community Fair
Contractors, Dev. & Consul	1		Workshop	3-20-19	Pewaukee	110	annual stormwater workshop
General Public	12		social media	3-22-19		9948	World water day post
General Public	9		Yard Waste Composting	3-27-19	New Berlin	21	Home composting workshop at New Berlin Library
Teachers and Students	4		Field Experience	4-3-19	Prairie Springs	110	Butler Middle School in collaborative EE program
Teachers and Students	3		Green Schools			1	School
General Public	8	HHE	Hazardous waste	4-11-19	Retzer	43	Pilot program for Scout days includes HHE
General Public	3		Presentation	4-17-19	Muskego	8	wetland monitoring
Teachers and Students	4		Field Experience	4-18-19	UW-Waukesha Field	14	Field sampling with KM Global students
General Public	3		Presentation	4-18-19	Palmyra	4	Soil Health field day
General Public	3		Presentation	4-20-19	Muskego	2	wetland monitoring
General Public	12		social media	4-22-19		9948	rain garden promotion
General Public	7		rain garden and rain barrels	4-23-19	North Lake	8	rain garden program at North lake library
General Public	12		social media	4-24-19		9948	home composting awareness
General Public	2		news releases/articles	4-24-19		1	National Compost Week press release
General Public	12		social media	4-26-19		9948	rain barrel promotion
Teachers and Students	2	career	Presentation	4-26-19	Mukwonago	28	career day for Parkview Middle School

General Public	3		Presentation	4-27-19	Retzer	27	water hike/program at Earth Day Celebration
General Public	4		Displays and handouts	4-27-19	Retzer	125	staffed outreach at Earth Day celebration
Contractors, Dev & Consul	2		news releases/articles	5-1-19		136	quarterly updates
General Public	12		social media	5-1-19		9948	soil health and composting-zombie campaign household elf program at Dixon elementary for Brownies
General Public	8	HHE	Hazardous waste	5-1-19	Brookfield	23	Brownies
General Public	10		Stream Monitoring	5-1-19	Retzer	10	training for nutrient monitoring tale of Two Waterbodies program with LaCasa
Teachers and Students	4		Field Experience	5-1-19	Retzer	18	Esperanza
General Public	4		Displays and handouts	5-2-19	Brookfield	70	pet waste handout to HOA for distribution to all members presentation with model and macros for Magee 3rd grade
Teachers and Students	2		Presentation	5-3-19	Genesee Depot	44	annual stream monitor training
General Public	10		Stream Monitoring	5-4-19	Prairie Springs	14	annual stream monitor training pilot for new healthy soils through composting at Saratoga STEM MS
Teachers and Students	2	healthy soils	Presentation	5-6-19	Waukesha	33	program for brownies at Mill Vally Elementary
General Public	3	I live in a	Presentation	5-7-19	Muskego	13	Morning Blend TV show spot on composting
General Public	2		news releases/articles	5-7-19	TV	1	dead zone-runoff pollution control - zombie campaign
General Public	12		social media	5-8-19		9948	staffed display about rain barrels and compost bins at In-Pro event
General Public	4		Displays and handouts	5-8-19	Muskego	12	kindergarten program at Retzer
Teachers and Students	4		Field Experience	5-8-19	Retzer	105	home composting class for composting awareness week
General Public	9		Yard Waste Composting	5-9-19	Retzer	18	water testing in class with Sussex Hamilton AP students
Teachers and Students	3		Presentation	5-10-19	Sussex	23	plants for Hearts and Hands Pre-school
General Public	6		Businesses	5-13-19	Oconomowoc	1	plants for Christ the Life Pre-school
General Public	6		Businesses	5-13-19	Waukesha	1	plants for Nature's Classroom Institute
General Public	6		Businesses	5-13-19	Mukwonago	1	rain garden/rain barrel program for North Lake
General Public	7		rain garden and rain barrels	5-13-19	North Lake	7	Library

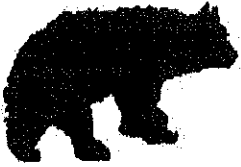
Teachers and Students	3	Green Schools	5-14-19	Menomonee Falls	1	Plants for St. Mary's
General Public	10	Stream Monitoring	5-15-19	Waukesha	2	benchmark for Pewaukee River at the junction with Fox
General Public	10	Stream Monitoring	5-15-19	Muskego	2	benchmark for stream into Lake Dennon
General Public	10	Stream Monitoring	5-16-19	Pewaukee	6	benchmark for Pewaukee Women's group sites
General Public	10	Stream Monitoring	5-16-19	Merton	1	benchmark for Mason Creek at Peterson Rd
General Public	10	Stream Monitoring	5-18-19	Hartland	2	benchmark for Bark River at Nixon park monitoring site
General Public	10	Stream Monitoring	5-18-19	Lisbon	8	benchmark for Bark River at North Rd
Teachers and Students	2	water resources Presentation	5-20-19	Pewaukee	246	water resources program for entire 5th grade dead zone - runoff pollution control - zombie campaign
General Public	12	social media	5-22-19		9948	combined soils and water program for Oconomowoc High School
Teachers and Students	2	five in/soils Presentation	5-22-19	Oconomowoc	35	
Teachers and Students	4	Field Experience	5-23-19	Merton	185	Pewaukee 5th grade program at Camp whitcomb
Teachers and Students	4	Field Experience	5-24-19	Merton	116	Pewaukee 5th grade program at Camp whitcomb
General Public	10	Stream Monitoring	5-24-19	Dousman	3	benchmark for Scuppernon Cree at UW-Field Station
General Public	10	Stream Monitoring	5-27-19	Mukwonago	3	benchmark for Mukwonago River at Rainbow Springs
General Public	10	Stream Monitoring	5-28-19	Merton	1	benchmark for Oconomowoc River at Westshore Drive
Teachers and Students	4	Field Experience	5-30-19	Mukwonago	76	Eagleville Elementary monitoring on Jericho Creek
General Public	2	news releases/articles	6-3-19		1	press release on cooperative education program provided boots for classroom testing for St. John's Military Academy
Teachers and Students	4	Green Schools	6-5-19	Delafield	1	
General Public	2	news releases/articles	6-5-19		1	press release on Discover Your Parks programs

General Public	2	news releases/articles	6-6-19	TV	1	Morning Blend TV show spot on rain gardens staffed display on shoreland restoration at Healthy Lakes Conference
General Public	4	Displays and handouts	6-7-19	Merton	170	
General Public	10	Stream Monitoring	6-10-19	Oconomowoc	1	benchmark on Ashippun River
Teachers and Students	4	Field Experience	6-11-19	Mukwonago	132	Eagleville Elementary monitoring on Jencho Creek one-on-one counseling with scout for Sustainability Merit Badge
General Public	3	presentation	6-12-19	Waukesha	3	
General Public	3	Presentation	6-18--19	Retzer	15	Scout Merit badge classes- environmental science Green cleaning program for Waukesha-County, City and School Dist.
General Public	8	Green Cleaning	6-19-19	Waukesha	15	
General Public	3	Hazardous waste Presentation	6-18-19	Retzer	9	Scout Merit badge classes - Sustainability
General Public	4	Displays and handouts	6-22-19	Pewaukee	400	staffed outreach at Clean Water Festival
General Public	4	Displays and handouts	6-26-19	Waukesha	200	tabletop display for County wellness event
Teachers and Students	1	training	7-10-19	Retzer	15	annual summer teacher tour
General Public	10	Stream Monitoring	7-12-19	Mukwonago	4	mussel training for volunteers watershed model for swim lessons at Menomonee Park
General Public	3	presentation	7-15-19	Menomonee Falls	49	
General Public	10	Stream Monitoring	7-16-19	Mukwonago	3	mussel training for volunteers
General Public	4	Displays and handouts	7-18-19	Waukesha	20	activity table at County Fair-water bugs monitoring with summer school at Lake Dennon Middle School
Teachers and Students	4	Field Experience	7-23-19	Muskego	45	
General Public	3	presentation	7-25-19	Brookfield	90	watershed model for swim lessons at Fox Brook Park
General Public	4	Displays and handouts	7-31-19	Hartland	700	staffed outreach at Hartland Kids day
Contractors, Dev. & Consu	1	news releases/articles	8-1-19		127	quarterly updates watershed model for VBS program at St. Anthony's on the Lake
General Public	3	Presentation	8-1-19	Pewaukee	82	
General Public	4	Displays and handouts	8-6-19	Mukwonago	350	booth at National Night Out-stormwater boxes
General Public	4	Displays and handouts	8-6-19	Merton	600	display at Merton national night out

General Public	4		Displays and handouts	8-7-19	Sussex	250	booth at National Night Out-stormwater boxes
General Public	3		Presentation	8-7-19	Retzer	8	Discover Your parks program
General Public	4		Displays and handouts	8-9-19	Oconomowoc	300	display at library
General Public	4		Displays and handouts	8-13-19	Oconomowoc	500	booth at Kids Fest
General Public	10		Stream Monitoring	8-20-19	Sussex	2	met at Sussex Creek to set new benchmark for flow
General Public	4		Displays and handouts	8-20-19	Oconomowoc	250	booth at National Night Out
Teachers and Students	1		training	8-21-19	Lapham Peak	10	training for 4th and 5th grade cooperative teachers
General Public	3		Presentation	8-22-19	Oconomowoc	12	Soil Health field day
General Public	4		Displays and handouts	8-24-19	Retzer	500	booth at Sustainability Fair at Retzer
General Public	3		Presentation	8-26-19	Muskego	34	Watershed presentation at Lake Denoon annual meeting
Teachers and Students	2	water resources	Presentation	9-9-19	Waukesha	48	Water resources for Prairie Elementary 5th grade healthy soils through composting program for Rose Glen Elementary
Teachers and Students	2	healthy soils	Presentation	9-11-19	Waukesha	45	water program for 6th grade at St. Mary's
Teachers and Students	2	water resources	Presentation	9-11-19	Elm Grove	22	Field experience for 6th grade of St. Mary's
Teachers and Students	4		Field Experience	9-12-19	Elm Grove	23	2 classes at Hadfield Elementary
Teachers and Students	2	healthy soils	Presentation	9-12-19	Waukesha	48	Homeowners Association Workshop
General Public	3		Presentation	9-12-19	Waukesha	6	Display at annual Harvest Festival
General Public	4		Displays and handouts	9-13/15-19	North Prairie	3250	2 classes at Banting Elementary
Teachers and Students	2	healthy soils	Presentation	9-18-19	Waukesha	32	2 classes at Randall STEM Academy
Teachers and Students	2	healthy soils	Presentation	9-18-19	Waukesha	56	2 classes at Randall STEM Academy
Teachers and Students	2	healthy soils	Presentation	9-19-19	Waukesha	56	2 classes at Randall STEM Academy
Teachers and Students	2	healthy soils	Presentation	9-19-19	Waukesha	47	program for Meadowbrook Elementary
General Public	3		Presentation	9-19-19	Oconomowoc	29	program on stream monitoring for Clean Water Association
Teachers and Students	2	healthy soils	Presentation	9-20-19	Waukesha	56	2 classes at Randall STEM Academy
General Public	4		Displays and handouts	9-21-19	Retzer	3250	outreach at Apple Harvest Fest
Teachers and Students	4		Field Experience	9-23-19	Eagleville	21	water testing on Jericho Creek with Eagleville elementary

Teachers and Students	2	healthy soils	Presentation	9-24-19	Waukesha	48	Healthy Soils through Composting for Prairie Elementary
Teachers and Students	2	healthy soils	Presentation	9-26-19	Waukesha	42	Healthy Soils through Composting for Whittier Elementary
Teachers and Students	2	healthy soils	Presentation	9-26-19	Waukesha	50	Healthy Soils through Composting for Lowell Elementary
Teachers and Students	2	healthy soils	Presentation	9-26-19	Waukesha	22	Elementary program for Saratoga STEM class
General Public	3	home composting	Presentation	10-02-19	Waukesha	15	Waukesha WCTC
Teachers and Students	2	water resources	Presentation	10-7-19	Waukesha	17	Water Resources for Hadfield Elementary
Teachers and Students	2	water resources	Presentation	10-7-19	Waukesha	17	Water Resources for Hadfield Elementary
Teachers and Students	2	career	Presentation	10-8-19	Waukesha	72	County wide career day at Expo
General Public	10		Stream Monitoring	10-8-19	Waukesha	2	macroinvertebrates and phosphorus with monitors at Pewaukee River
General Public	3		Presentation	10-9-19	Waukesha	12	Wonders of Water at Girl scout night
General Public	10		Stream Monitoring	10-10-19	Retzer	7	macroinvertebrate id and phosphorus with Pewaukee Ladies group
Teachers and Students	2	healthy soils	presentation	10-10-19	DeLafield	56	healthy soils program for Cushing Elementary
Teachers and Students	2	career	presentation	10-17-19	Pewaukee	41	career day at Pewaukee HS
General Public	3		Presentation	10-17-19	DeLafield	26	program for Ice Age Trail Alliance at Lapham Peak
General Public	1		news releases/articles	10-21-19		1	Press release for science fest
Teachers and Students	2	healthy soils	Presentation	10-23-19	Retzer	23	Soils program for homeschool group
General Public	10		Stream Monitoring	10-23-19	Genesee	1	finish monitoring Genesee Creek and Spring Brook
Teachers and Students	4		Field Experience	10-30-19	Retzer	12	water testing with Menomonee Falls AP class
General Public	4		Displays and handouts	11-2-19	Retzer	190	activity table at Science Fest
General Public	3	live in a	presentation	11-2-19	Retzer	7	watershed model presentation at Science Fest
General Public	3		presentation	11-2-19	Retzer	31	hike to creek to learn about water bugs as a stream health indicator
Contractors, Dev. & Consul	1		news releases/articles	11-4-19		145	quarterly updates

Teachers and Students	2	career	presentation	11-7-19	New Berlin	20	career day at New Berlin Eisenhower High School
Teachers and Students	2	career	Presentation	11-12-19	Wales	60	career day at Kettle Moraine High school
General Public	8	HHE	presentation	11-13-19	Retzer	28	combined troops from Wales and Doustman
Teachers and Students	2	live in a	Presentation	11-18-19	Pewaukee	12	program for middle school
General Public	8	HHE	Presentation	11-19-19	Retzer	35	Muskego Mill Valley Brownies mini golf hole for United Way with pet waste, fertilizer and auto info
General Public	4		Displays and handouts	11-20-19	Waukesha	68	Program at Banting Elementary
Teachers and Students	2	live in a	Presentation	11-20-19	Waukesha	67	Program at Banting Elementary
Teachers and Students	2		Presentation	11-21-19	Sussex	53	in class water testing with AP students
General Public	4		Displays and handouts	12-3-19	Merton	250	display at annual tree lighting event and visit from Santa
Teachers and Students	2		Presentation	12-12-19	Sussex	25	in class water testing with Environmental students
Teachers and Students	2		Presentation	12-12-19	Sussex	19	in class water testing with Environmental students
General Public	4		Displays and handouts	12-19		100000	annual tax insert with green makeover program info
Teachers and Students	2	live in a	Presentation	12-18-19	Retzer	18	program for homeschool group
General Public	4		Displays and handouts	12-19-19	Pewaukee	300	Display at city hall for end of year taxes



## 2019 Storm Water Activity Report

### Post-Construction Storm Water Runoff Control Program:

The Village of Mukwonago's post construction stormwater runoff program seeks to protect local streams, lakes and wetlands from the long-term impacts of pollution resulting from rain and snow melt washing accumulated pollutants off of developed lands. Pollutants such as total suspended solids (TSS), phosphorus, oil and grease, bacteria and more are commonly found on the roads, parking lots, manicured lawns and rooftops. The impacts of these pollutants on local waterways can lead to degradation of local in stream water quality and habitat conditions. The Village's program includes requirements to design and install post-construction best management practices such a stormwater ponds, infiltration basins, porous pavement systems, bio filtration systems, underground storage and other storm water treatment systems to minimize the accumulation and impacts of these pollutants to local waterways. Plan submittal/ reviews, permit issuance, long-term maintenance agreements and maintenance plans and inspect inspection frequencies to ensure performance of these facilities into the future.

- There are 69 BMPs in the Village, 14 are municipally owned.
- 13 of the Municipally owned were inspected and maintained during the reporting year. An infiltration basin remains under warranty and was monitored by the installer.
- Ponds are inspected for erosion, invasive/woody vegetation, animal damage, debris, contaminates and function.
- Three new facilities were approved in 2019.
- 16 private facilities were inspected with documentation.
- Four rounds of street sweeping were conducted with 67 tons of debris collected.
- 186 catch basin sumps were cleaned with 10 tons of debris removed.



## STORMWATER POND INSPECTION

### Pond Information

Pond ID:	0005	Pond Type:	Wet Pond
Location:	East Veterans Way, West of Hawks Ridge Condos		
Subdivision:	Village Owned	Watershed:	Fox
Capacity:		Acres:	
Overflow Elev:		100 Year Elev:	
Year Constructed:		Date Input:	
Water Quality:		Private:	

### Inspection Details

Inspector Name(s):	Ron Bittner, Kevin Van Aacken		
Inspection Date:	10/4/2019	Start Time:	1:00
		End Time:	1:43 PM
Weather Condition:	Cloudy 55F	Last Rainfall Date:	10/2/2019

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 checked="" type="checkbox"/>	<input 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

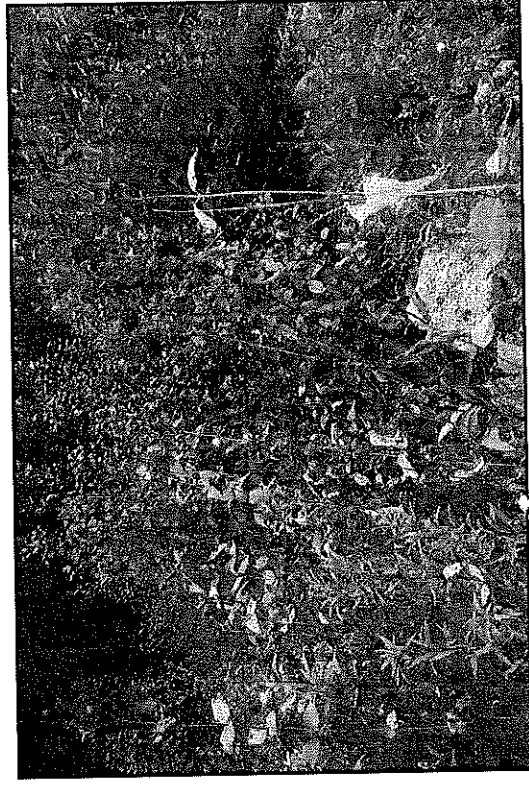
Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Vegetation</b>							
1. Adequate vegetation cover?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Appropriate vegetation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mowing required Woody vegetation
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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Remove Woody vegetations
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

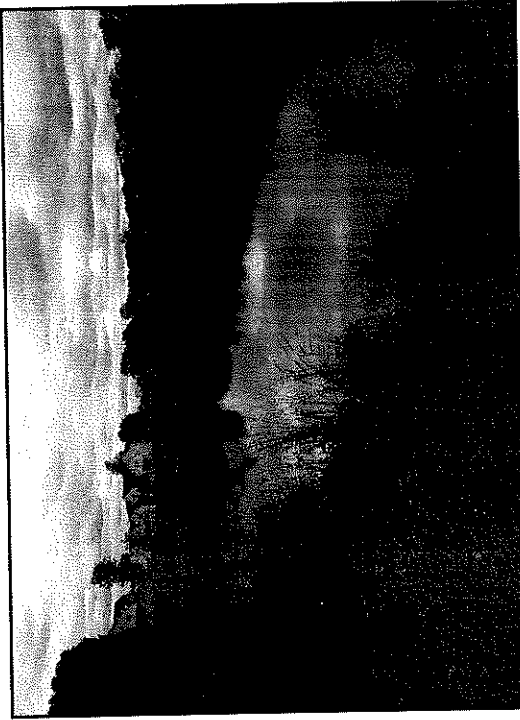
Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Riser &amp; Outfall Spillway</b>							
1. Low flow orifice obstructed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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 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 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Graffiti removal needed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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:							



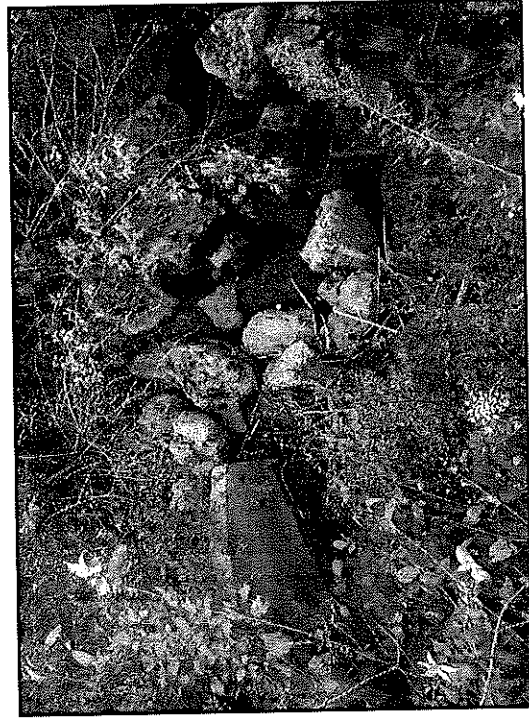
N/A - View File



N/A - View File



N/A - View File



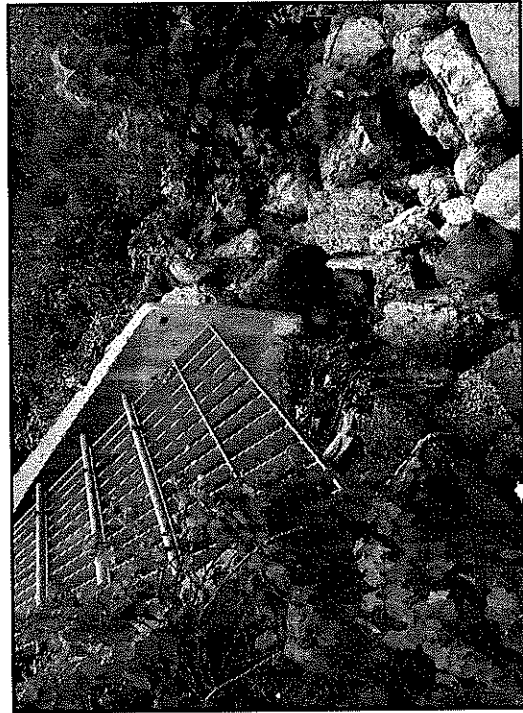
N/A - View File



N/A - View File



N/A - View File



N/A - View File

## STORMWATER POND INSPECTION

Pond Information							
Pond ID:	MV 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:		Private:					
Inspection Details							
Inspector Name(s):	Kevin Van Aacken						
Inspection Date:	10/10/2019	Start Time:	10:50AM	End Time:	11:12AM		
Weather Condition:	Cloudy			Last Rainfall Date:	10/6/2019		
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 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>	R
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"/>	

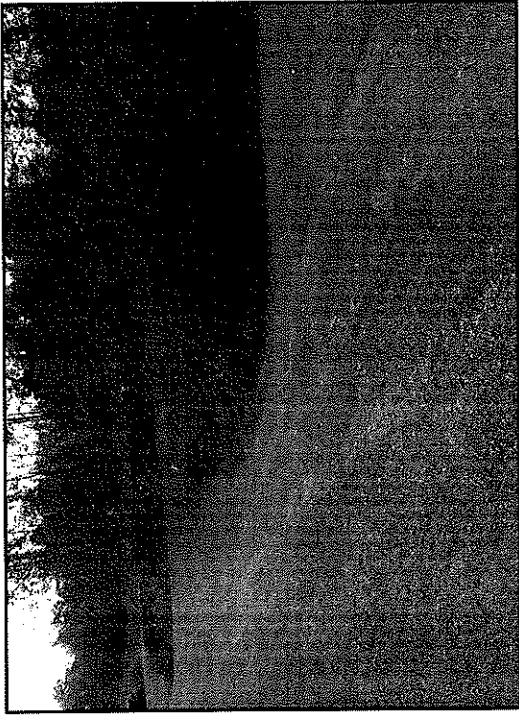
### STORMWATER POND INSPECTION

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 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 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:							

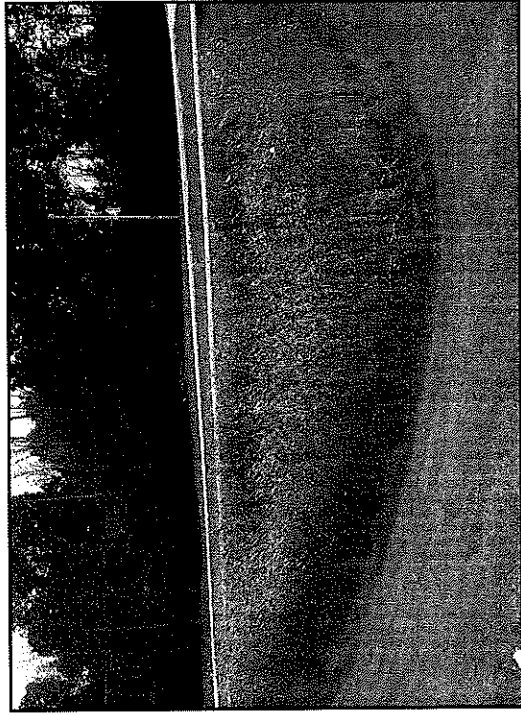




N/A - View File



N/A - View File



N/A - View File

## STORMWATER POND INSPECTION

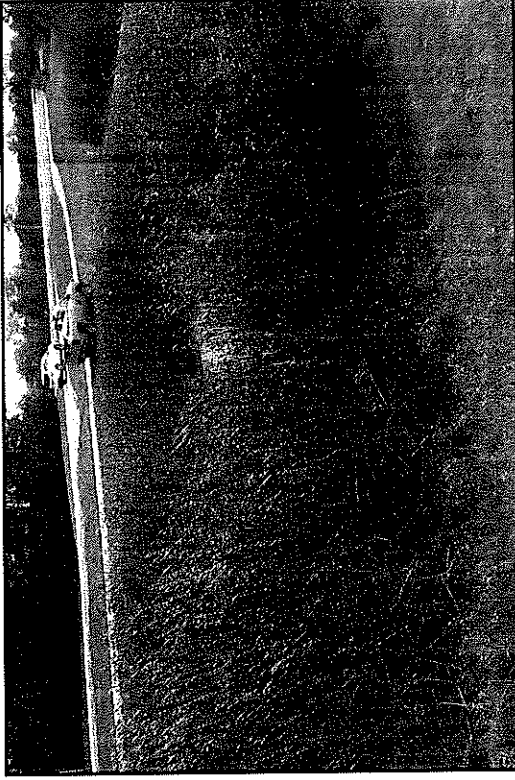
Pond Information							
Pond ID:	MV 0051	Pond Type:	Wet Pond				
Location:	Holz Pkwy. N. of Mukwonago River						
Subdivision:		Watershed:	Mukwonago				
Capacity:		Acres:					
Overflow Elev:		100 Year Elev:					
Year Constructed:		Date Input:					
Water Quality:		Private:					
Inspection Details							
Inspector Name(s):	Kevin Van Aacken						
Inspection Date:	10/10/2019	Start Time:	11:15AM	End Time:	11:35AM		
Weather Condition:	Cloudy			Last Rainfall Date:	10/6/2019		
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 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

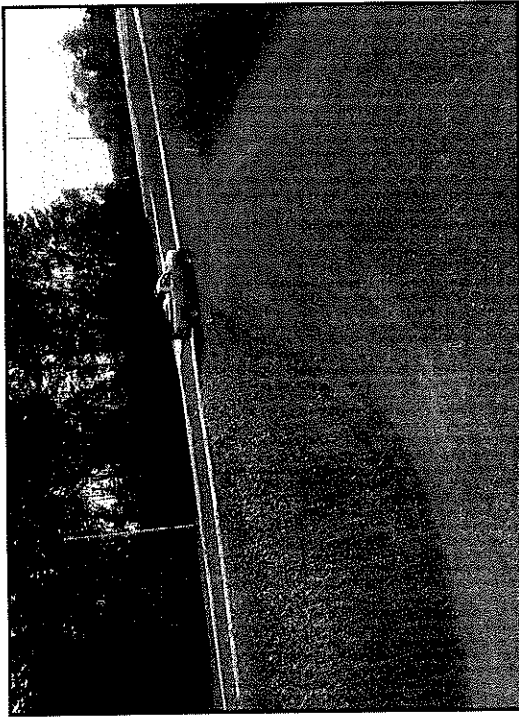
Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Vegetation</b>							
1. Adequate vegetation cover?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Appropriate 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

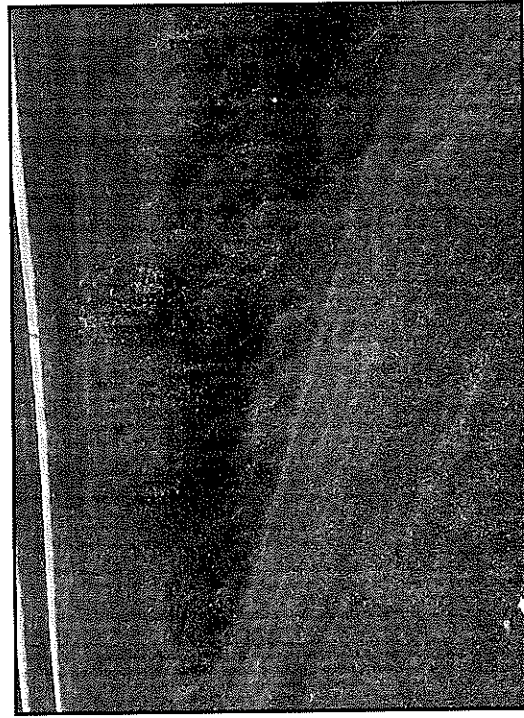
Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Riser &amp; Outfall Spillway</b>							
1. Low flow orifice obstructed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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 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:							



N/A - View File



N/A - View File



N/A - View File

## STORMWATER POND INSPECTION

Pond Information									
Pond ID:	MV 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:	✓	Private:							
Inspection Details									
Inspector Name(s):	Kevin Van Aacken								
Inspection Date:	10/10/2019	Start Time:	10:30AM	End Time:	10:44AM				
Weather Condition:	Cloudy				Last Rainfall Date:	10/6/2019			
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"/>			

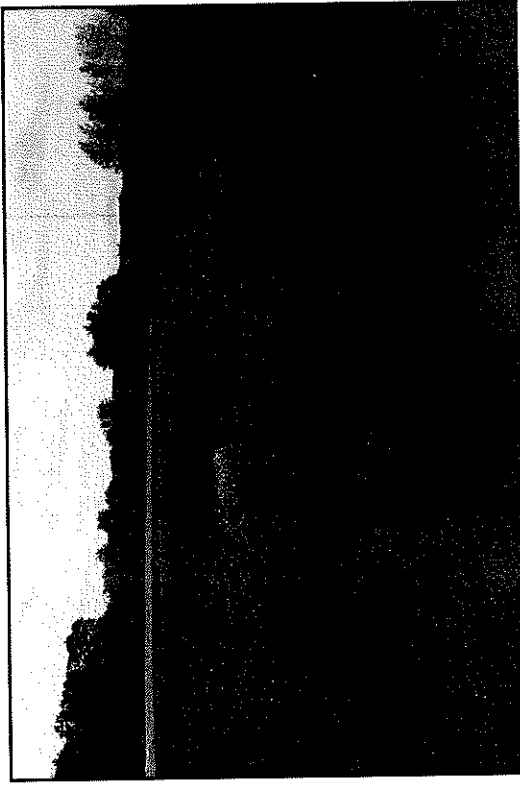
## STORMWATER POND INSPECTION

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"/>	

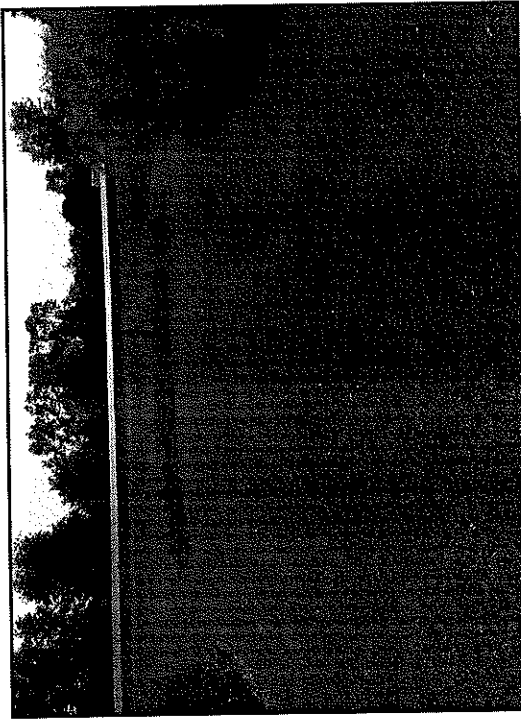
## STORMWATER POND INSPECTION

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 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 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 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:							





N/A - View File



N/A - View File

## STORMWATER POND INSPECTION

Pond Information			
Pond ID:	VM 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:		Private:	

Inspection Details			
Inspector Name(s):	Kevin Van Aacken		
Inspection Date:	10/10/2019	Start Time:	08:45AM
		End Time:	09:10 AM
Weather Condition:	Cloudy		Last Rainfall Date:
			10/6/2019

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"/>	

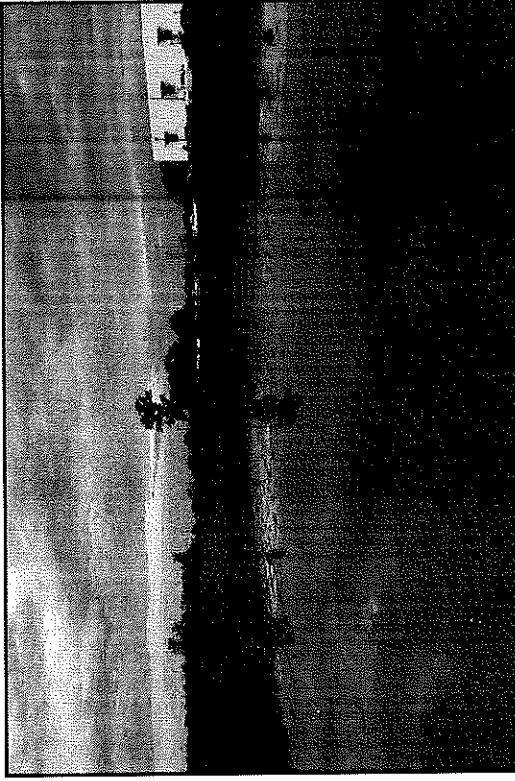
Infiltration Basin							
1. Standing water or wet spots?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Sediment or trash accumulation?	<input type="checkbox"/>	<input type="checkbox"/>	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 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 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:							



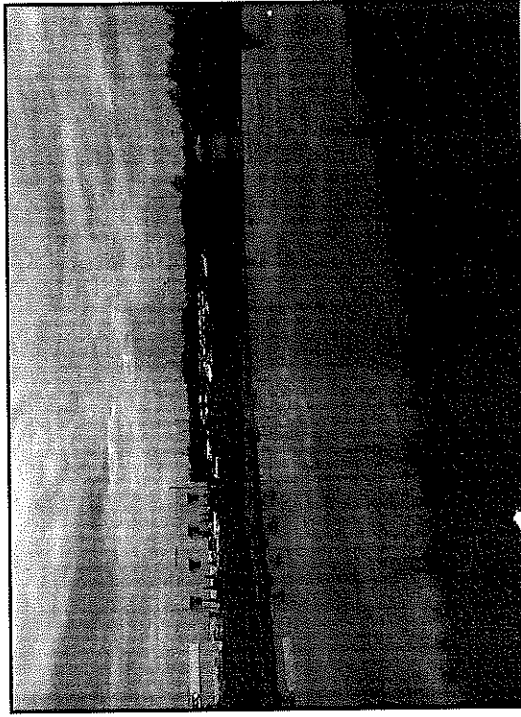
N/A - View File



N/A - View File



N/A - View File



N/A - View File

## STORMWATER POND INSPECTION

Pond Information			
Pond ID:	VM 0034	Pond Type:	Wet Pond
Location:	Dewey Drive		
Subdivision:	Dewy Dr. Industrial Park	Watershed:	Mukwonago
Capacity:		Acres:	
Overflow Elev:		100 Year Elev:	
Year Constructed:		Date Input:	
Water Quality:		Private:	

Inspection Details			
Inspector Name(s):	Kevin van Aacken/Ron Bittner		
Inspection Date:	10/9/2019	Start Time:	01:45PM
		End Time:	02:10PM
Weather Condition:	Clear	Last Rainfall Date:	10/6/2019

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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 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"/>	

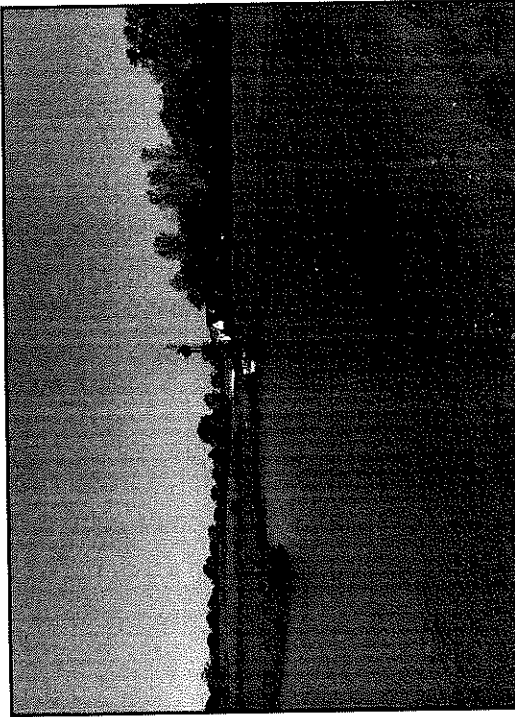
## STORMWATER POND INSPECTION

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 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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:							

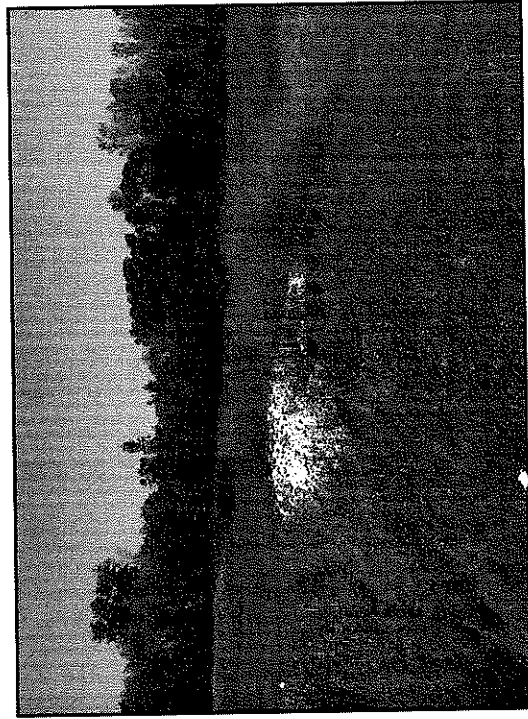




N/A - View File



N/A - View File



N/A - View File

## 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:					Private:					
Inspection Details										
Inspector Name(s):	Kevin Van Aacken									
Inspection Date:	10/10/2019			Start Time:	10:09AM		End Time:	10:30AM		
Weather Condition:	Cloudy						Last Rainfall Date:	10/6/2019		
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

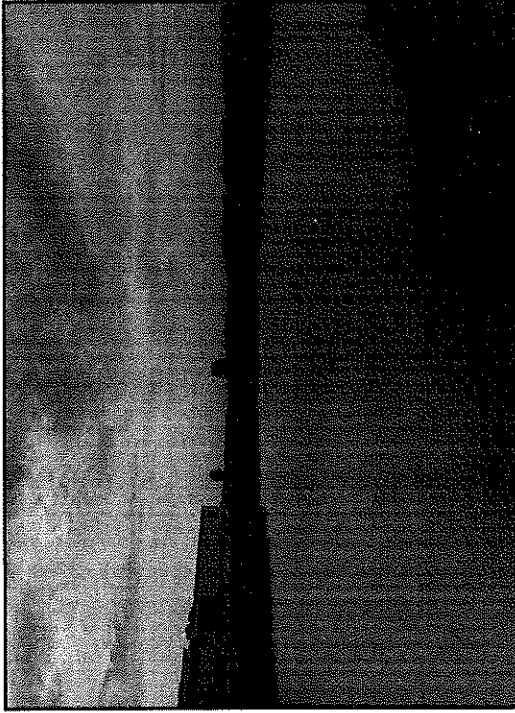
Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Vegetation</b>							
1. Adequate vegetation cover?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Appropriate 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 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

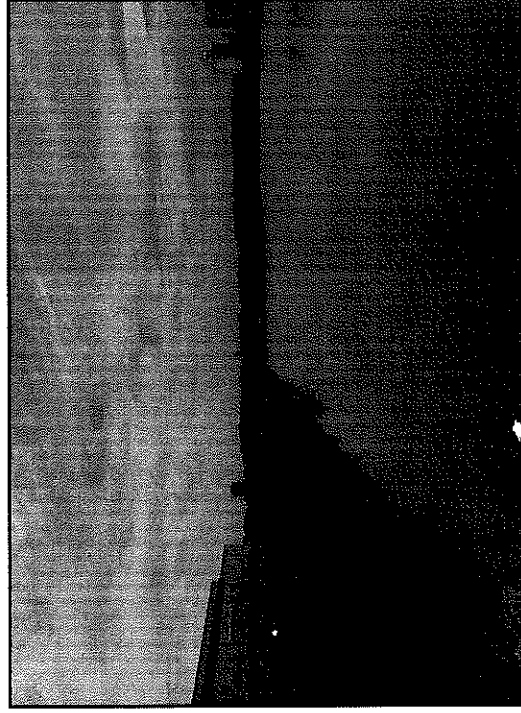
Issue	Checked			Maintenance Needed			Comments
	Y	N	N/A	Y	N	N/A	
<b>Riser &amp; Outfall Spillway</b>							
1. Low flow orifice obstructed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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:							



N/A - View File



N/A - View File



N/A - View File

## 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:				Private:			
Inspection Details							
Inspector Name(s):	Kevin Van Aacken						
Inspection Date:	10/10/2019	Start Time:	09:45AM	End Time:	10:00AM		
Weather Condition:	Cloudy				Last Rainfall Date:	10/6/2019	
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"/>	

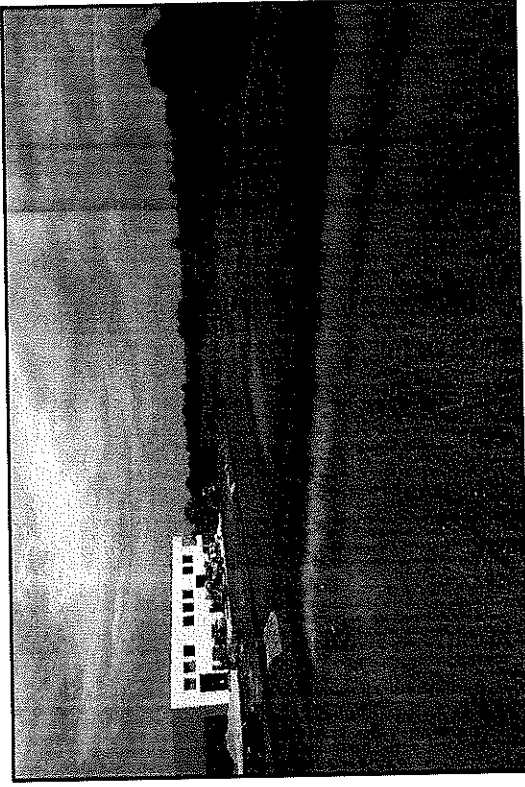
## STORMWATER POND INSPECTION

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"/>	

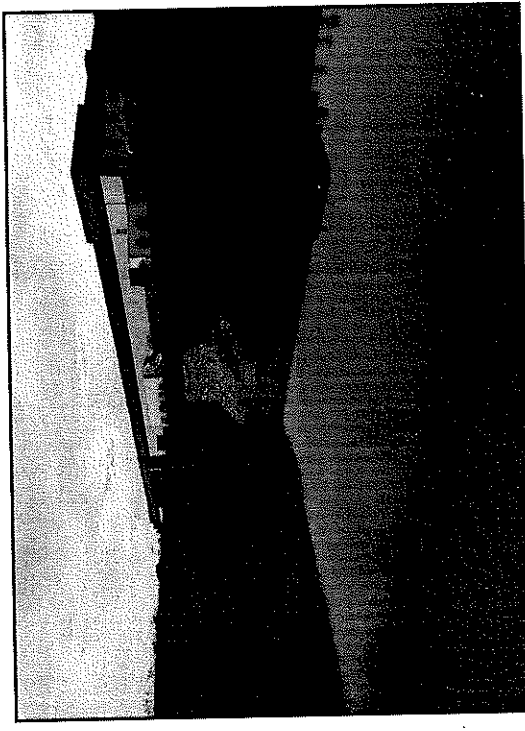
### STORMWATER POND INSPECTION

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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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:							





N/A - View File



N/A - View File

## STORMWATER POND INSPECTION

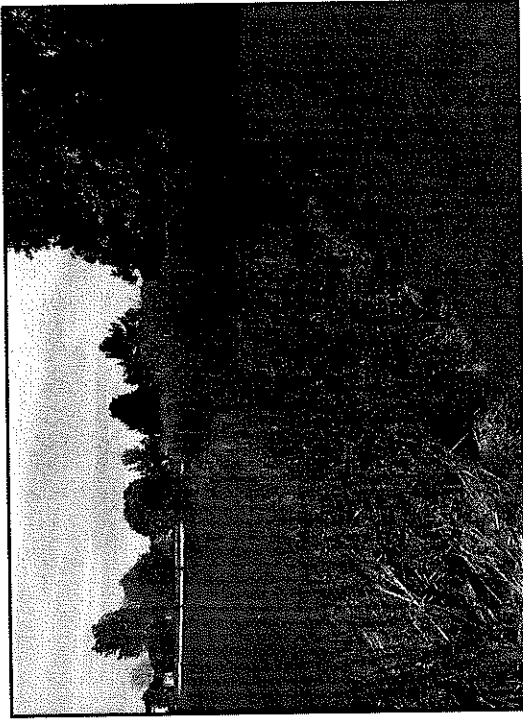
Pond Information							
Pond ID:	MV 0053	Pond Type:	Wet Pond				
Location:	Miniwaukan Park Middle						
Subdivision:		Watershed:	Mukwonago				
Capacity:		Acres:					
Overflow Elev:		100 Year Elev:					
Year Constructed:		Date Input:					
Water Quality:		Private:					
Inspection Details							
Inspector Name(s):	Kevin Van Aacken						
Inspection Date:	10/10/2019	Start Time:	12:45PM	End Time:	01:00PM		
Weather Condition:	Cloudy			Last Rainfall Date:	10/6/2019		
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 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 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vegetation	
4. Excessive nuisance aquatic vegetation present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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:							



N/A - View File

## STORMWATER POND INSPECTION

Pond Information			
Pond ID:	MV 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:		Private:	

Inspection Details			
Inspector Name(s):	Kevin Van Aacken		
Inspection Date:	10/10/2019	Start Time:	01:00PM
		End Time:	1:10PM
Weather Condition:	Cloudy 67F		Last Rainfall Date:
			10/6/2019

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"/>	

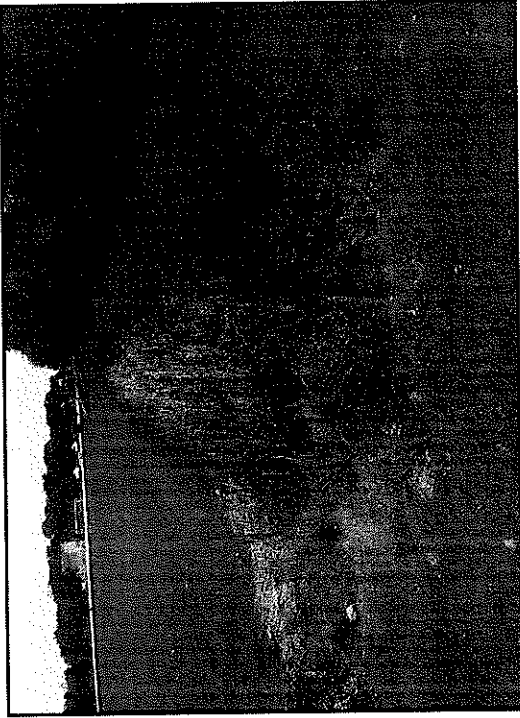
## STORMWATER POND INSPECTION

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 checked="" type="checkbox"/>	<input 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 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:							





N/A - View File

## STORMWATER POND INSPECTION

Pond Information									
Pond ID:	MV 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:		Private:							
Inspection Details									
Inspector Name(s):	Kevin Van Aacken								
Inspection Date:	10/10/2019	Start Time:	12:30PM	End Time:	12:45PM				
Weather Condition:	Cloudy 67 F				Last Rainfall Date:				
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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:							



**BROOKLIFE  
CHURCH**

857 S. Rochester St., Suite 300  
Mukwonago, WI 53149

262.378.4470  
BROOKLIFE.ORG

February 6, 2020

Village of Mukwonago  
Department of Public works  
c/o Ron Bittner  
440 River Crest Ct.  
Mukwonago, WI 53149

**Dear Ron,**

Below is a summary of our stormwater pond maintenance for the pond located on our property. Let me know if you have any questions.

Sitework (cutting the grass and keeping the banks clear of debris - worked performed by Newbys):

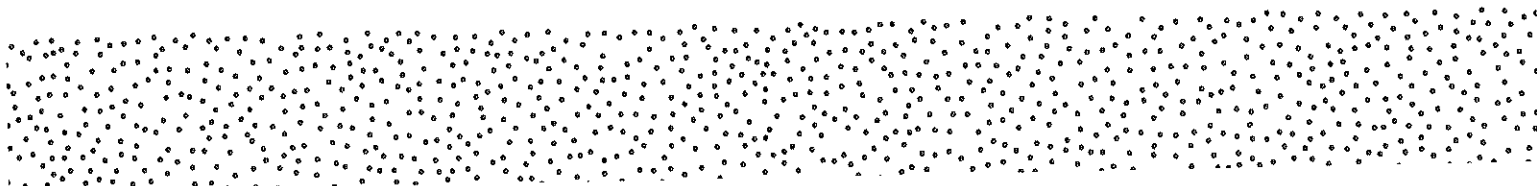
- 5/23/19
- 7/3/19
- 7/10/19
- 9/25/19

Visual inspections (making sure inlets and outlets are clear and free from debris - performed by Josh Peterson):

- 5/6/19; 6/3/19; 7/29/19; 9/30/19

Sincerely,

Josh Peterson  
Associate Pastor  
262-378-4470  
jpeterson@brooklife.org



## BIORETENTION BASIN JANUARY 2019

During routine maintenance of our bioretention basin, located at 1002 Main Street in the village of Mukwonago, we cleaned refuse from grate and shoveled snow and ice from grate. Retention area was free of standing water and no other problems were noticed during this inspection.

Village Automotive & Tire

262.363.9450

Nicholas Bruss

## BIORETENTION BASIN APRIL 2019

During routine maintenance of our bioretention basin, located on 1002 Main Street in the Village of Mukwonago, the drain remains cleaned and checked to be free from garbage and plant debris. The grate remains clear with no issues found. In the spring lawn is cleaned of miscellaneous debris from drain areas and no concerns during this inspection period.

Village Automotive & Tire

262.363.9450

Nicholas Bruss

## BIORETENTION BASIN SEPTEMBER 2019

During routine maintenance of our bioretention basin, located on 1002 Main Street in the Village of Mukwonago, the drain remains cleaned and checked to be free from garbage and plant debris. The grate remains clear with no issues found. In the fall lawn is cleaned of miscellaneous debris from drain areas and no concerns during this inspection period.

Village Automotive & Tire

262.363.9450

Nicholas Bruss



St. John's Evangelical  
Lutheran Church and School  
[www.stjohnslutheran-muk.org](http://www.stjohnslutheran-muk.org)

410 HWY NN West  
Mukwonago, WI 53149

262.363.4999

Pastor John Bortulin [pastor@stjohnslutheran-muk.org](mailto:pastor@stjohnslutheran-muk.org)

Pastor Micah Martin [pastor.martin@stjohnslutheran-muk.org](mailto:pastor.martin@stjohnslutheran-muk.org)

Vicar Nick Mount [vicar@stjohnslutheran-muk.org](mailto:vicar@stjohnslutheran-muk.org)

Mr. James Schneck, Principal [jschneck@stjohnslutheran-muk.org](mailto:jschneck@stjohnslutheran-muk.org)



September 3, 2019

Mr. Ron Bittner  
Public Works Director  
Village of Mukwonago  
P.O. Box 206  
440 River Crest Ct.  
Mukwonago, Wisconsin 53149

Subject: Annual Storm Water Management Facility Inspection  
St. John's Evangelical Lutheran Church and School  
Mukwonago, Wisconsin

Dear Mr. Bittner,

Please find attached the Annual Storm Water Management Inspection Form for the recently completed observations at the above referenced site. In accordance with our original building plans, pavement and roof storm water is directed into a natural kettle in the west-central portion of the property. A copy of the applicable portion of the Site/Erosion Control Plan showing the approximate area of the kettle is also attached. If you have any questions or need additional information, please do not hesitate to contact us. Thank you.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Jim Becco".

Jim Becco  
Member – St. John's Evangelical Lutheran Church

**STORMWATER MANAGEMENT INSPECTION FORM**

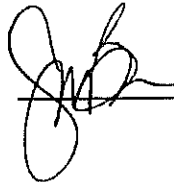
**Facility Name/Owner:** St. John's Evangelical Lutheran Church and School

**Street Address:** 410 County Highway NN

**City/State:** Mukwonago, Wisconsin 53149

**Contact Number:** 262-363-4999

**Performed By:** Jim Becco



**Inspection Date:** 9/3/2019

**Feature Description:** Natural, vegetated kettle

ITEM	CHECKED Y/N	MAINTENANCE REQ'D Y/N	COMMENTS
Vegetation	Y	N	
Erosion	Y	N	
Slopes	Y	N	
Flooding	Y	N	
Yard Waste/Trash/Sediment	Y	N	
Standing Water	Y	N	
Inlets	Y	N	
Outlets			NA



**EXHIBIT C-2**  
**Bio-Infiltration Operation, Inspection,**  
**and Maintenance Report Form**

Project: Mukwonago School Dist.  
 Location: MHS District Office  
 Date: 10-9-19  
 Time: 9:30 A.M.  
 Weather: Sunny  
 Inspector: John S.

Maintenance Item	Satisfactory / Unsatisfactory	Comments
<b>1. Embankment (Annual, After Major Storms)</b>		
1. Vegetation and ground cover adequate	S	
2. Embankment erosion	S	
3. Animal burrows	S	
4. Unauthorized planting	S	
5. Cracking, bulging, or sliding of dam		
a. Upstream face	S	
b. Downstream face	S	
c. At or beyond toe		
Downstream	S	
Upstream	S	
6. Basin outlets clear and functioning	S	
7. Seeps/leaks on downstream face	S	
8. Slope protection or riprap failure	S	
9. Vertical/horizontal alignment of top of dam "As-Built"	S	
10. Other (specify)		
<b>2. Outlet pipe and principal spillway (Annual)</b>		
Type: Reinforced concrete <u>X</u>		
Corrugated pipe _____		
Masonry _____		
1. Excessive sediment accumulation inside outlet pipe	S	
2. Concrete/masonry condition of outlet pipe		
a. cracks or displacement	S	
b. Minor spalling (<1")	S	
c. Major spalling (rebars exposed)	S	

Maintenance Item	Satisfactory / Unsatisfactory	Comments
d. Joint failures	S	
e. Water tightness	S	
3. Outfall channels functioning	S	
4. Other (specify)		
<b>3. Bottom of basin (monthly)</b>		
1. Undesirable vegetative growth	S	
2. Debris removal required	S	
3. Visible pollution	S	
4. Accumulated sediment	S	
5. Other (specify)		
<b>4. Condition of Outfalls into Ponds (Annual , After Major Storms)</b>		
1. Riprap failures	S	
2. Slope erosion	S	
3. Storm drain pipes	S	
4. Endwalls / Headwalls	S	
5. Other (specify)		
<b>5. Other ( Monthly)</b>		
1. Encroachment on pond or easement area	S	
2. Complaints from residents	-	
3. Aesthetics		
a. Vegetation growth required	S	
b. Vegetation removal required, such as large, woody plants (i.e. trees)	S	
c. Debris and litter removal	S	
d. Other (specify)		
4. Any public hazards (specify)		

**Comments:**

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Actions to be Taken:

NO ACTION NEEDS TO BE TAKEN  
AT THIS TIME.

**EXHIBIT C-2**  
**Bio-Infiltration Operation, Inspection,**  
**and Maintenance Report Form**

Project: Mukwonago School Dist  
 Location: MHS EAST POND  
 Date: 10-9-19  
 Time: 11:00 AM  
 Weather: Sunny  
 Inspector: JOHN S.

Maintenance Item	Satisfactory / Unsatisfactory	Comments
<b>1. Embankment (Annual, After Major Storms)</b>		
1. Vegetation and ground cover adequate	S	
2. Embankment erosion	S	
3. Animal burrows	S	
4. Unauthorized planting	S	
5. Cracking, bulging, or sliding of dam		
a. Upstream face	S	
b. Downstream face	S	
c. At or beyond toe	S	
Downstream	S	
Upstream	S	
6. Basin outlets clear and functioning	S	
7. Seeps/leaks on downstream face	S	
8. Slope protection or riprap failure	S	
9. Vertical/horizontal alignment of top of dam "As-Built"	S	
10. Other (specify)		
<b>2. Outlet pipe and principal spillway (Annual)</b>		
Type: Reinforced concrete <input checked="" type="checkbox"/>	S	
Corrugated pipe <input type="checkbox"/>		
Masonry <input type="checkbox"/>		
1. Excessive sediment accumulation inside outlet pipe	S	
2. Concrete/masonry condition of outlet pipe	S	
a. cracks or displacement	S	
b. Minor spalling (<1")	S	
c. Major spalling (rebars exposed)	S	

Operation, Inspection, & Maintenance Checklist

Dry Detention Pond

Maintenance Item	Satisfactory / Unsatisfactory	Comments
d. Joint failures	S	
e. Water tightness	S	
3. Outfall channels functioning	S	
4. Other (specify)		
<b>3. Bottom of basin (monthly)</b>		
1. Undesirable vegetative growth	S	
2. Debris removal required	S	
3. Visible pollution	S	
4. Accumulated sediment	S	
5. Other (specify)		
<b>4. Condition of Outfalls into Ponds (Annual , After Major Storms)</b>		
1. Riprap failures	S	
2. Slope erosion	S	
3. Storm drain pipes	S	
4. Endwalls / Headwalls	S	
5. Other (specify)		
<b>5. Other ( Monthly)</b>		
1. Encroachment on pond or easement area	S	
2. Complaints from residents	S	
3. Aesthetics	S	
a. Vegetation growth required	S	
b. Vegetation removal required, such as large, woody plants (i.e. trees)	S	
c. Debris and litter removal	S	
d. Other (specify)		
4. Any public hazards (specify)		

Comments:

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**Actions to be Taken:**

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**EXHIBIT C-2**  
**Bio-Infiltration Operation, Inspection,**  
**and Maintenance Report Form**

Project: Mukwonago School Dist  
 Location: MHS West Pond  
 Date: 10-9-19  
 Time: 1:00 P.M.  
 Weather: SUNNY  
 Inspector: JOHN S.

Maintenance Item	Satisfactory / Unsatisfactory	Comments
<b>1. Embankment (Annual, After Major Storms)</b>		
1. Vegetation and ground cover adequate	S	
2. Embankment erosion	S	
3. Animal burrows	S	
4. Unauthorized planting	S	
5. Cracking, bulging, or sliding of dam	S	
a. Upstream face	S	
b. Downstream face	S	
c. At or beyond toe	S	
Downstream	S	
Upstream	S	
6. Basin outlets clear and functioning	S	
7. Seeps/leaks on downstream face	S	
8. Slope protection or riprap failure	S	
9. Vertical/horizontal alignment of top of dam "As-Built"	S	
10. Other (specify)		
<b>2. Outlet pipe and principal spillway (Annual)</b>		
Type: Reinforced concrete <u>  X  </u>		
Corrugated pipe <u>      </u>		
Masonry <u>      </u>		
1. Excessive sediment accumulation inside outlet pipe	S	
2. Concrete/masonry condition of outlet pipe	S	
a. cracks or displacement	S	
b. Minor spalling (<1")	S	
c. Major spalling (rebars exposed)	S	

Maintenance Item	Satisfactory / Unsatisfactory	Comments
d. Joint failures	S	
e. Water tightness	S	
3. Outfall channels functioning	S	
4. Other (specify)		
<b>3. Bottom of basin (monthly)</b>		
1. Undesirable vegetative growth	S	
2. Debris removal required	S	
3. Visible pollution	S	
4. Accumulated sediment	S	
5. Other (specify)		
<b>4. Condition of Outfalls into Ponds (Annual , After Major Storms)</b>		
1. Riprap failures	S	
2. Slope erosion	S	
3. Storm drain pipes	S	
4. Endwalls / Headwalls	S	
5. Other (specify)		
<b>5. Other ( Monthly)</b>		
1. Encroachment on pond or easement area	S	
2. Complaints from residents	S	
3. Aesthetics	S	
a. Vegetation growth required	S	
b. Vegetation removal required, such as large, woody plants (i.e. trees)	S	
c. Debris and litter removal	S	
d. Other (specify)	S	
4. Any public hazards (specify)		

**Comments:**

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**Actions to be Taken:**

NO ACTION NEEDS TO BE TAKEN  
AT THIS TIME

**Attachment A: Wet Detention Basin BMP Inspection Report  
Waukesha County, Wisconsin**

Project Name: Fox River View HOA

Inspection Date: 12-5-19

BMP Description: Pond inspection

BMP ID Number: \_\_\_\_\_

**Code Key:**

N/A = Not Applicable	M = Monitor (potential for future problem)	NP = Not a Problem	WN = Work Needed
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**INFLOW POINTS**

Assessment	Code	Comments
Obstruction: vegetation/debris/sediment	NP	Cut and cleared Q2 2019
Erosion/undercutting	NP	
Displacement of fabric/rip rap	NP	
Pipe Condition	NP	
Other (describe)	N/A	

**FOREBAY**

Assessment	Code	Comments
Sediment depth (ft. below principal outlet)	NP	
Side slope erosion	NP	
Invasive vegetation	NP	
Safety shelf	NP	
Other (describe)	NP	

**MAIN POOL**

Assessment	Code	Comments
Visible pollution/water quality	NP	
Sediment depth (ft. below principal outlet)	NP	
Vegetation height/type	NP	
Bare soil/erosion	NP	
Invasive vegetation (estimate a %)	NP	
Weeds/algae cover (estimate a %)	NP	- No Algae noted / cold out
Permanent pool elevation	NP	
Pond liner	NP	
Safety shelf	NP	
Other (describe)	N/A	

**EMBANKMENT**

Assessment	Code	Comments
Erosion and/or loss of dam material	NP	
Shrubs/trees present	NP	
Animal burrows	NP	
Soft spots or settlement	NP	
Emergency spillway	NP	
Other (describe)	NP	

**OUTLET DEVICE**

Assessment	Code	Comments
Obstruction: vegetation/debris/sediment	NP	
Erosion/undercutting	NP	
Joint failure/loss of joint material	NP	
Leaking device	NP	
Outfall riprap/scour prevention	NP	
Other (describe)		

**MISCELLANEOUS**

Assessment	Code	Comments
Trash/debris	N	TRASH on mldy, JMS
Access	NP	
Vandalism	NP	
Fence condition (if applicable)	NA	
Fish/wildlife observations	NA	
Signage (if applicable)	NA	
Water balance	NA	
Aerator/fountain	NA	
Sediment disposal site (available?)	NA	
Other (describe)		

**PHOTOGRAPHS**

Attach color digital photographs of the site and structural BMPs including a caption describing each photo.

**ADDITIONAL COMMENTS**

\_\_\_\_\_

**FAIRWINDS HOMEOWNERS' ASSOCIATION, INC.**  
**1830 Meadow Lane, Suite A**  
**Pewaukee, Wisconsin 53072**  
**(262) 547-6181**

February 3, 2020

Ron Bittner  
Public Works Director  
Village of Mukwonago  
440 River Crest Court  
Mukwonago, Wisconsin 53149

Re: *Fairwinds Stormwater Ponds*

Dear Ron:

Pursuant to your request regarding documentation of inspections and work performed on the stormwater ponds at Fairwinds, please see below and the enclosed.

Enclosed you will find the treatment details from Wisconsin Lake & Pond who provided the pond maintenance in 2019. The HOA also hired goose management contractors for 2019 and will continue to do so until the geese are no longer an issue.

After multiple inspections, the HOA noticed that the tree growth around the east pond was excessive and contracted with BK Property Management to remove the growth. Enclosed is the proposal from November, 2019. Note that this work was done during January, 2020.

As you are aware, Bielinski Development, Inc. finished the reconstruction of the west pond and encloses herewith all of the inspection reports performed by R&M for Fairwinds V which included this pond work.

The HOA is not aware of any other structural or operational issues with the ponds at Fairwinds and will continue to monitor same.

Let us know if there are any further questions.

Sincerely,



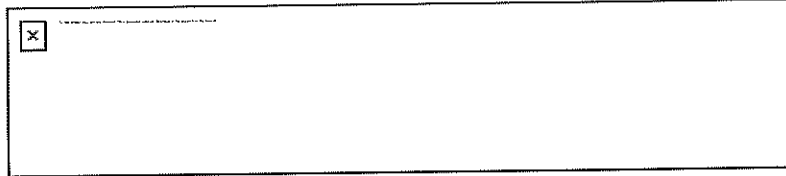
Meg Galaska  
President

Enclosures

## Tim Voeller

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**From:** Wisconsin Lake & Pond Resource, LLC <kathy@wisconsinlpr.com>  
**Sent:** Thursday, May 23, 2019 11:13 AM  
**To:** Tim Voeller  
**Subject:** Treatment Report



**Wisconsin Lake & Pond Resource, LLC**  
N7828 Town Hall Rd., Eldorado, WI 54932  
Phone: 920-872-2032

### CLIENT INFORMATION

Bielinski Homes  
1830 Meadow Lane, Suite A  
Pewaukee , WI 53072



Contact Info:  
Tim Voeller  
tvoeller@bielinski.com  
262-893-4716

### PROJECT INFORMATION

**Pond Info:**  
Fairwinds HOA - Pond A  
617 Stoecker Farm Avenue  
Mukwonago, WI 53149

**Size (acres):**1.003214  
**Max Depth:**  
**Mean Depth:** 5  
**Permit No:** SE-2019-68-1910  
**Google Earth URL of Pond:**

#### Service Technician

Berg, Joey  
Marlow, Thayne

#### Pesticide Applicator License

092501  
104941

### TREATMENT DETAIL

**Treatment Date:** 2019-05-22  
**Treatment Start Time:** 10:20am



**Treatment End Time:** 11:05am  
**Services Performed:** Basic Pond Management  
**Species Treated:** Filamentous Algae, Eurasian/hybrid Milfoil  
**Acres Treated:** 1.0  
**Volume Treated (ac-ft):** 5.01607  
**Restrictions:**  
 - 1 Day Drinking  
 - 5 Days Irrigation

**Notes:** WLPR was on site for our first pond management visit and site inspection of the season. While on site, the initial concentration of dye was applied to both ponds to aid in aesthetics and management of the ponds. Both ponds contained minor Filamentous algae and Eurasian Water Milfoil (invasive species). We will continue to treat Eurasian Water Milfoil when present. Enzymes were added to aid in the treatments and for the breakdown of organic matter. The invasive Phragmites and also willows are present in high densities around the perimeter- We recommend treating later this summer. .

\*\*Applicator shall provide a free copy of each pesticide label used (if requested).\*\*

## PRODUCT DETAIL

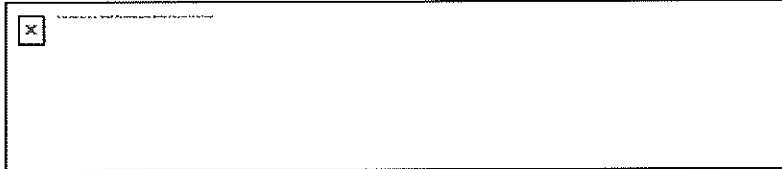
Product Name	EPA Number	Amt. Used	Rate/Concentration
Captain XTR	67690-9	2.25 gal.	0.15
Tribune	100-1390	1.25 gal.	1.25 gal/acre
Aquathol K	70506-176	1.25 gal.	0.4
Water Quality Enzymes		1.5 gal.	
WLPR Colorant - Black		2 qt.	
WLPR Colorant - Blue		2.5 qt.	
Aquashade	33068-1	0.5 gal.	

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**Tim Voeller**

---

**From:** Wisconsin Lake & Pond Resource, LLC <kathy@wisconsinlpr.com>  
**Sent:** Friday, July 19, 2019 3:47 PM  
**To:** Tim Voeller  
**Subject:** Treatment Report



**Wisconsin Lake & Pond Resource, LLC**  
N7828 Town Hall Rd., Eldorado, WI 54932  
**Phone: 920-872-2032**

**CLIENT INFORMATION**

Bielinski Homes  
1830 Meadow Lane, Suite A  
Pewaukee , WI 53072



Contact Info:  
Tim Voeller  
tvoeller@bielinski.com  
262-893-4716

**PROJECT INFORMATION**

**Pond Info:**  
Fairwinds HOA - Pond A  
617 Stoecker Farm Avenue  
Mukwonago, WI 53149

**Size (acres):**1.003214  
**Max Depth:**  
**Mean Depth:** 5  
**Permit No:** SE-2019-68-1910  
**Google Earth URL of Pond:**

<b>Service Technician</b>	<b>Pesticide Applicator License</b>
Lorge, Nicholas	105360
Zickert, Nathan	103092

**TREATMENT DETAIL**

**Treatment Date:** 2019-07-19  
**Treatment Start Time:** 10:30am

**Treatment End Time:** 11:20am  
**Services Performed:** Basic Pond Management  
**Species Present:** Cattail  
**Acres Treated:** 1.0  
**Volume Treated (ac-ft):** 5.01607  
**Restrictions:**  
 - None

**Notes:** Pond looked good overall with no filamentous algae or nuisance vegetation present while on site. Bacteria and enzymes were applied throughout the pond to improve overall water quality and clarity. Aquashade was applied to limit sunlight to growing aquatic plants and algae, which will help to limit total nuisance growth in the pond. Pond colorant was added for aesthetic purposes.

\*\*Applicator shall provide a free copy of each pesticide label used (if requested).\*\*

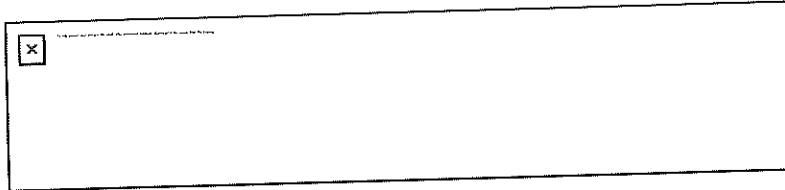
## PRODUCT DETAIL

Product Name	EPA Number	Amt. Used	Rate/Concentration
Aquashade	33068-1	1 gal.	1 GAL/4 ACRE-FT
Water Quality Bacteria - Bulk		10 lbs.	
Water Quality Enzymes		1 gal.	
WLPR Colorant - Black		1.5 qt.	
WLPR Colorant - Blue		1.5 qt.	

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**Tim Voeller**

**From:** Wisconsin Lake & Pond Resource, LLC <kathy@wisconsinlpr.com>  
**Sent:** Thursday, May 23, 2019 11:16 AM  
**To:** Tim Voeller  
**Subject:** Treatment Report



**Wisconsin Lake & Pond Resource, LLC**  
N7828 Town Hall Rd., Eldorado, WI 54932  
Phone: 920-872-2032

**CLIENT INFORMATION**

Bielinski Homes  
1830 Meadow Lane, Suite A  
Pewaukee , WI 53072



Contact Info:  
Tim Voeller  
tvoeller@bielinski.com  
262-893-4716

**PROJECT INFORMATION**

**Pond Info:**  
Fairwinds HOA - Pond B  
617 Stoecker Farm Avenue  
Mukwonago, WI 53149

**Size (acres):** .3489  
**Max Depth:**  
**Mean Depth:** 4  
**Permit No:** SE-2019-68-1910  
**Google Earth URL of Pond:**

<b>Service Technician</b>	<b>Pesticide Applicator License</b>
Berg, Joey	092501
Marlow, Thayne	104941

**TREATMENT DETAIL**

**Treatment Date:** 2019-05-22  
**Treatment Start Time:** 10:20am

**Treatment End Time:** 11:05am  
**Services Performed:** Basic Pond Management  
**Species Treated:** Filamentous Algae, Eurasian/hybrid Milfoil  
**Acres Treated:** 0.34  
**Volume Treated (ac-ft):** 1.3956  
**Restrictions:**  
 - 1 Day Drinking  
 - 5 Days Irrigation

**Notes:** WLPR was on site for our first pond management visit and site inspection of the season. While on site, the initial concentration of dye was applied to both ponds to aid in aesthetics and management of the ponds. Both ponds contained minor Filamentous algae and Eurasian Water Milfoil (invasive species). We will continue to treat Eurasian Water Milfoil when present. Enzymes were added to aid in the treatments and for the breakdown of organic matter. The invasive Phragmites and also willows are present in high densities around the perimeter- We recommend treating later this summer. .

\*\*Applicator shall provide a free copy of each pesticide label used (if requested).\*\*

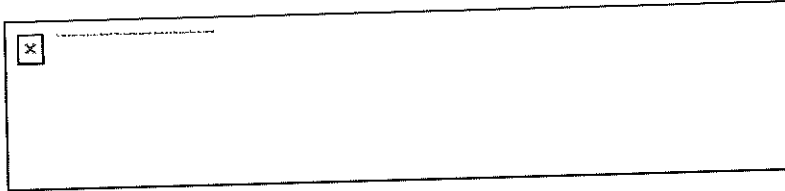
## PRODUCT DETAIL

Product Name	EPA Number	Amt. Used	Rate/Concentration
Captain XTR	67690-9	1.25 gal.	0.3
Tribune	100-1390	0.5 gal.	1.4 gal/acre
Aquathol K	70506-176	0.5 gal.	0.56
Water Quality Enzymes		1 gal.	
WLPR Colorant - Black		1 qt.	
WLPR Colorant - Blue		0.5 qt.	
Aquashade	33068-1	0.5 gal.	

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**Tim Voeller**

**From:** Wisconsin Lake & Pond Resource, LLC <kathy@wisconsinlpr.com>  
**Sent:** Friday, July 19, 2019 3:47 PM  
**To:** Tim Voeller  
**Subject:** Treatment Report



**Wisconsin Lake & Pond Resource, LLC**  
N7828 Town Hall Rd., Eldorado, WI 54932  
Phone: 920-872-2032

**CLIENT INFORMATION**

Bielinski Homes  
1830 Meadow Lane, Suite A  
Pewaukee , WI 53072



Contact Info:  
Tim Voeller  
tvoeller@bielinski.com  
262-893-4716

**PROJECT INFORMATION**

**Pond Info:**  
Fairwinds HOA - Pond B  
617 Stoecker Farm Avenue  
Mukwonago, WI 53149

**Size (acres):**.3489  
**Max Depth:**  
**Mean Depth:** 4  
**Permit No:** SE-2019-68-1910  
**Google Earth URL of Pond:**

<b>Service Technician</b>	<b>Pesticide Applicator License</b>
Lorge, Nicholas	105360
Zickert, Nathan	103092

**TREATMENT DETAIL**

**Treatment Date:** 2019-07-19  
**Treatment Start Time:** 10:30am

**Treatment End Time:** 11:20am  
**Services Performed:** Basic Pond Management  
**Species Present:** Cattail  
**Species Treated:** Filamentous Algae  
**Acres Treated:** .3489  
**Volume Treated (ac-ft):** 1.3956  
**Restrictions:**  
 - 1 Day Drinking  
 - 5 Days Irrigation

**Notes:** Pond had low amounts of nuisance filamentous algae present which was treated while on site. Bacteria and enzymes were applied following the treatment to aid in the decomposition of decaying algae, and also to improve overall water quality and clarity. Aquashade was applied to limit sunlight to growing plants and algae. Pond colorant was applied for aesthetic purposes.

\*\*Applicator shall provide a free copy of each pesticide label used (if requested).\*\*

## PRODUCT DETAIL

Product Name	EPA Number	Amt. Used	Rate/Concentration
Captain XTR	67690-9	.5 gal.	.123ppm
Tribune	100-1390	.1 gal.	.29 gal/acre
Aquashade	33068-1	.5 gal.	1 gal/4 acre-ft
Water Quality Bacteria - Bulk		5 lbs.	
Water Quality Enzymes		1 gal.	
WLPR Colorant - Black		.5 qt.	
WLPR Colorant - Blue		.5 qt.	

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**Tim Voeller**

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**From:** Wisconsin Lake & Pond Resource, LLC <kathy@wisconsinlpr.com>  
**Sent:** Tuesday, October 1, 2019 9:39 AM  
**To:** Tim Voeller  
**Subject:** Treatment Report



**Wisconsin Lake & Pond Resource, LLC**  
N7828 Town Hall Rd., Eldorado, WI 54932  
Phone: 920-872-2032

**CLIENT INFORMATION**

Bielinski Homes  
1830 Meadow Lane, Suite A  
Pewaukee , WI 53072



Contact Info:  
Tim Voeller  
tvoeller@bielinski.com  
262-893-4716

**PROJECT INFORMATION**

**Pond Info:**  
Fairwinds HOA - Pond A  
617 Stoecker Farm Avenue  
Mukwonago, WI 53149

**Size (acres):**1.003214  
**Max Depth:**  
**Mean Depth:** 5  
**Permit No:** SE-2019-68-1910  
**Google Earth URL of Pond:**

**Service Technician**  
Lorge, Nicholas

**Pesticide Applicator License**  
105360

**TREATMENT DETAIL**

**Treatment Date:** 2019-09-30  
**Treatment Start Time:** 1:00pm  
**Treatment End Time:** 1:50pm



**Services Performed:** Basic Pond Management

**Species Present:** Cattail

**Species Treated:** Filamentous Algae

**Acres Treated:** 1.003214

**Volume Treated (ac-ft):** 5.01607

**Restrictions:**

- 1 Day Drinking
- 5 Days Irrigation
- 1 Day Pet/Livestock Consumption

**Notes:** Pond A: The pond looked great while on site with no nuisance algae or vegetation present. Bacteria and enzymes were applied throughout the pond to improve overall water quality and clarity. Pond colorant was also added to improve aesthetics..

\*\*Applicator shall provide a free copy of each pesticide label used (if requested).\*\*

## PRODUCT DETAIL

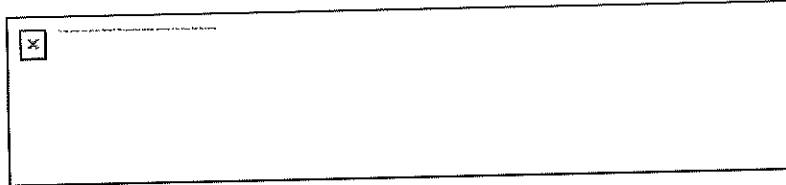
Product Name	EPA Number	Amt. Used	Rate/Concentration
Water Quality Bacteria - Bulk		15 lbs.	
Water Quality Enzymes		2 gal.	
WLPR Colorant - Black		2 qt.	
WLPR Colorant - Blue		2 qt.	

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**Tim Voeller**

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**From:** Wisconsin Lake & Pond Resource, LLC <kathy@wisconsinlpr.com>  
**Sent:** Tuesday, October 1, 2019 9:42 AM  
**To:** Tim Voeller  
**Subject:** Treatment Report



**Wisconsin Lake & Pond Resource, LLC**  
N7828 Town Hall Rd., Eldorado, WI 54932  
Phone: 920-872-2032

**CLIENT INFORMATION**

Bielinski Homes  
1830 Meadow Lane, Suite A  
Pewaukee , WI 53072



Contact Info:  
Tim Voeller  
tvoeller@bielinski.com  
262-893-4716

**PROJECT INFORMATION**

**Pond Info:**  
Fairwinds HOA - Pond B  
617 Stoecker Farm Avenue  
Mukwonago, WI 53149

**Size (acres):**.3489  
**Max Depth:**  
**Mean Depth:** 4  
**Permit No:** SE-2019-68-1910  
**Google Earth URL of Pond:**

<b>Service Technician</b>	<b>Pesticide Applicator License</b>
Lorge, Nicholas	105360

**TREATMENT DETAIL**

**Treatment Date:** 2019-09-30  
**Treatment Start Time:** 1:00pm  
**Treatment End Time:** 1:50pm

**Services Performed:** Basic Pond Management

**Species Present:** Cattail

**Species Treated:** Filamentous Algae

**Acres Treated:** .3489

**Volume Treated (ac-ft):** 1.3956

**Restrictions:**

- 1 Day Drinking
- 5 Days Irrigation

**Notes:** Pond B: Moderate amounts of filamentous algae were present and treated while on site. Bacteria and enzymes were also applied following the treatment to aid in the decomposition of decaying algae and plant matter, and to improve overall water quality and clarity. Lastly, pond colorant was added for aesthetic purposes..

\*\*Applicator shall provide a free copy of each pesticide label used (if requested).\*\*

## PRODUCT DETAIL

Product Name	EPA Number	Amt. Used	Rate/Concentration
Captain XTR	67690-9	1.5 gal.	0.370 ppm
Tribune	100-1390	0.25 gal.	0.71 gal/acre
Water Quality Bacteria - Bulk		10 lbs.	
Water Quality Enzymes		1 gal.	
WLPR Colorant - Black		1 qt.	
WLPR Colorant - Blue		1 qt.	

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BK Property Management, LLC  
N6734 Wisconsin Pkwy  
Delavan, WI 53115  
262.215.8545

**PROPOSAL**

Bielinski Development  
Attn: Tim Voeller

November 5, 2019

Re: Fairwinds HOA

Clean tree growth around east pond

**\$2,250.00 + tax**

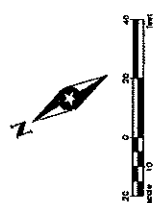
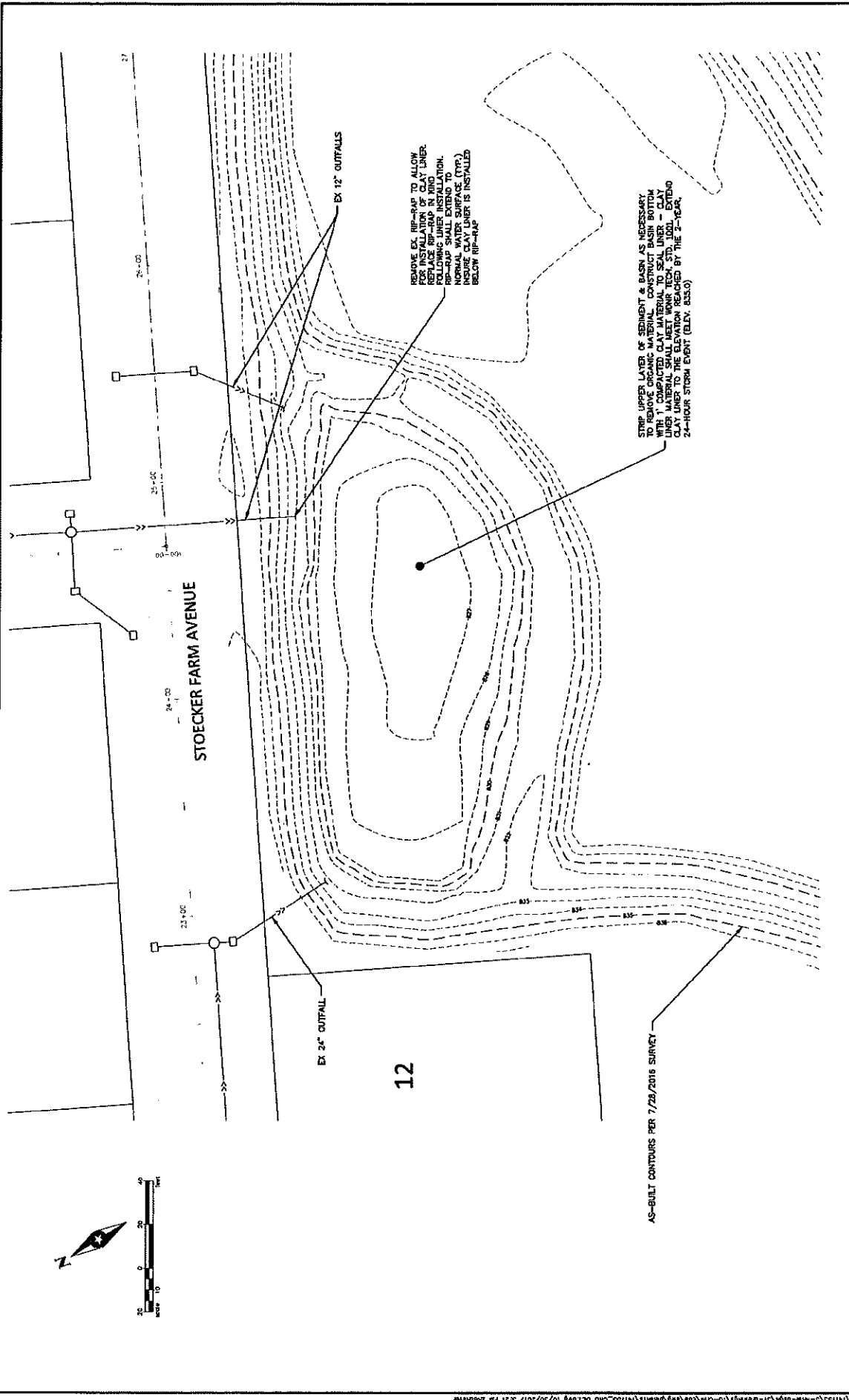
Payment due 10 days after monthly invoice billing date. This proposal may be withdrawn by us if not accepted within 30 days.

As required by the Wisconsin construction lien law, landscaper hereby notifies owner that persons or companies furnishing labor or materials for the construction on owner's land may have lien rights on owner's land and buildings if not paid. Those entitled to lien rights, in addition to the undersigned landscaper, are those who contract directly with the owner or those who give the owner notice within 60 days after they first furnish labor or materials for the construction. Accordingly, owner probably will receive notices from those who furnish labor or materials for the landscaper, and should give a copy of each notice received to the mortgage lender, if any. Landscaper agrees to cooperate with the owner and the owner's lender, if any, to see that all potential lien claimants are duly paid.

All permits required are the responsibility of the owner. Fines or fees resulting from this requirement are to be paid by owner.

All work to be completed in a workmanlike manner according to standard practices. Any alterations or deviations from above specifications involving extra costs will become an extra charge over and above the proposal. All agreements contingent upon strikes, accidents, or delays beyond our control. Owner to carry fire, tornado, and other necessary insurance. Our workers are fully covered by Workers Compensation Insurance.

Customer Signature: \_\_\_\_\_ Date: \_\_\_\_\_



12

STOCKER FARM AVENUE

EX 24" OUTFALL

EX 12" OUTFALLS

REMOVE EX RIP-RAP TO ALLOW FOR INSTALLATION OF CLAY LINER. REMOVE EX RIP-RAP AND EXISTING LINER FOLLOWING LINER INSTALLATION. RIP-RAP SHALL EXTEND TO NORMAL WATER SURFACE (NWS). CLAY LINER IS INSTALLED BELOW RIP-RAP.

STOP UPPER LAYER OF SEDIMENT & BASIN AS NECESSARY TO REMOVE ORGANIC MATERIAL. CONSTRUCT BASIN BOTTOM WITH 1" COMPACTED CLAY MATERIAL TO SEAL LINER - CLAY LINER MATERIAL SHALL MEET MORTENSTEIN, INC. EXTEND CLAY LINER MATERIAL TO NORMAL WATER SURFACE (NWS) BY THE 24-HOUR STORM EVENT (ELEV. 833.0)

AS-BUILT CONTOURS PER 7/28/2016 SURVEY

DRAWN BY: CAB		11/20/2017		PROJECT: VILLAGE OF MUKWONAGO		C 2.60	
DESIGNED BY: MAM		141135		DATE: 6/19/2017		OF 23	
CHECKED BY: MAM		NO. BY		DATE		REVISIONS	
DESIGN TEAM		NO.		BY		DATE	
FAIRWINDS - PHASE 5				EXISTING BASIN DETAIL			
VILLAGE OF MUKWONAGO, WI							
 SEH ENGINEERING & SURVEYING, INC. 200 W. WISCONSIN AVENUE SUITE 200 MILWAUKEE, WI 53212-4331							

OTHER LOCATIONS TO SERVE YOU . . .

WAUWATOSA  
10121 W. North Avenue

MEQUON  
10280 N. Port Washington Road

MENMOMONEE FALLS  
Menomonee Avenue & Town Hall Road

SUSSEX  
W250 N6505 Highway 164

OCONOMOWOC  
121 S. Cross Street

# *Schmidt & Bartelt*

A.A. SCHMIDT & SONS • GUARDALABENE & AMATO • VAN VALIN  
HEIDEN & LANGE • NOTBOHN-KREUTZMANN

930 Main St. • Mukwonago, WI 53149



*Funeral Service*

1-262-363-7126  
Fax 1-262-363-7127

Feb 4, 2020

Hi Ron,

Here is a copy of the work that was done on our Stormwater Pond at the Funeral Home.

Thanks You,

A handwritten signature in black ink, appearing to read 'Mike Patterson', written over a horizontal line.

Mike Patterson

July 30, 2019

I hired Eagle Exteriors Excavator, LLC., to cut and remove all of the vegetation that was growing up and around our storm water pond. There was approximately 8 feet of vegetation growth from the water level going up the banks of the pond. All of the yard waste was removed and transported out by the landscaper.

I also called Lake and Pond Solutions (262) 742-2600 to come over and look at the pond to determine how to kill and remove the overabundance growth of cattails in the pond.

Mike Patterson

Manager Schmidt & Bartelt Funeral Home

**Notice:** Completion of this form is a condition of the permit and provides records required by WDNR (NR 107) and DATCP (ATCP 29.21 and 29.22). The Department may not issue you future permits unless you complete and submit this form. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law [ss. 19.31-19.39, Wis. Stats.].

**Submit this form:** (1) immediately if any unusual circumstances occurred during treatment  
 (2) as soon after treatment as possible, no later than 30 days  
 (3) by October 1 if no treatment occurred

Completion of this form along with the permit satisfies the requirements of WDNR (NR 107) and DATCP (ATCP 29.21 and 29.22).

**General Permit Information**

Permit Number SE-2019-68-5428	Waterbody Name (including ponds, e.g., Smith Pond) Schmidt & Bartelt Funeral & Cremation Services Private Pond		
County Waukesha	Permit Holder Name (Customer Name) Schmidt & Bartelt Funeral & Cremation Services		
Permit Holder Address 930 Main St.	City Mukwonago	State WI	ZIP Code 53149

**Treatment Information**

Treatment Date (mm/dd/yyyy) 08/14/2019	Starting Time (24 hr) 12:30	Ending Time (24 hr) 12:00	Water Temp <input type="radio"/> C <input checked="" type="radio"/> F	Ambient Air Temp 75 <input type="radio"/> C <input checked="" type="radio"/> F
Wind Speed (mph) 5-10	Wind Direction E	Expected Duration of Chemical Residuals 2 day		

Adverse Conditions Noted (i.e., dead fish, spawning fish, algae bloom, etc.)  
 No outflow or adverse conditions

If adverse conditions noted, indicate corrective actions taken

**Comments**

Aquaneat: <70ppb drinking water restriction from assay  
 Habitat: 2 day drinking water restriction and 120day or <1ppb irrigation restriction

Onsite Supervision Present? <input type="radio"/> Yes <input checked="" type="radio"/> No	If Yes, Supervisor Name
---	-------------------------

Mixing and Loading Site Location (if other than business site or from prepackaged retail container or applied with equipment with a total capacity of not more than 5 gallons liquid or 50 pounds dry)  
 on permitted property

Herbicide Treatment and Water Use Restrictions Signs Posted In Accordance With NR 107?

**Applicator shall provide each customer with a free copy of each pesticide label used (if requested)**

**Applicator Information**

Individual or Business Name Lake and Pond Solutions Co		Telephone (xxx) 123-1234 (262) 742-2600	
Street Address W4950 County Rd. A	City Elkhorn	State WI	ZIP Code 53121
Individuals Making Pesticide Application:	Last Name Lyon	First Garrett	Certification # 87910
	Last Name Vanderlip	First Kevin	Certification # CA95577993
	Last Name	First	Certification #
	Last Name	First	Certification #



# Aquatic Plant Management Herbicide Treatment Record

Form 3200-111 (R 11/16)

Name of Person Completing Form Garrett Lyon	Signature	Date Signed 08/14/2019	BNR Use Only Date Received
--	-----------	---------------------------	-------------------------------

Treatment Site and Chemical Information - 1							
Site No.	Property Name	Address / Fire No.	Treated Acreage	Permitted Acreage	Sensitive Area?	Latitude	Longitude
1	Schmidt & Bartelt Entrance Pond	Same as above	0.16	0.16	<input type="checkbox"/> Y		
Herbicide Name	EPA Reg. No.	Amount Applied	Units	Application Concentration Rate (mg/l = ppm)			
Aquaneat	228-365	19	ounces	n/a Emergent treatment			
Habitat	241-426-67690	13	ounces	n/a Emergent treatment			
<b>Total Amount Applied</b>		<b>32</b>					

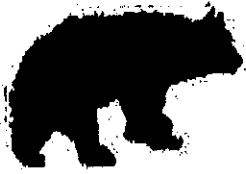
Treatment Site and Chemical Information - 2							
Site No.	Property Name	Address / Fire No.	Treated Acreage	Permitted Acreage	Sensitive Area?	Latitude	Longitude
					<input type="checkbox"/> Y		
Herbicide Name	EPA Reg. No.	Amount Applied	Units	Application Concentration Rate (mg/l = ppm)			
<b>Total Amount Applied</b>							

Treatment Site and Chemical Information - 3							
Site No.	Property Name	Address / Fire No.	Treated Acreage	Permitted Acreage	Sensitive Area?	Latitude	Longitude
					<input type="checkbox"/> Y		
Herbicide Name	EPA Reg. No.	Amount Applied	Units	Application Concentration Rate (mg/l = ppm)			
<b>Total Amount Applied</b>							

Add a Treatment Site >>

If treating >5% of the lake surface area, what is the whole lake concentration (mg/l = ppm) per herbicide applied?					
Herbicide Name	Herbicide Name	EPA Reg. No.	Total Amount	Units	Whole Lake Concentration Rate (mg/l = ppm)
<b>Total Amount Applied For All Sites</b>			<b>32</b>		

Aquatics at Treatment Site: TS = Target Species SP = Species Present											
TS	SP	Site(s)	TS	SP	Site(s)	TS	SP	Site(s)			
<input checked="" type="radio"/>	<input type="radio"/>	Cattail	1	<input type="radio"/>	<input type="radio"/>	Flat-Stem Pondweed		<input type="radio"/>	<input type="radio"/>	Richardson Pondweed	
<input type="radio"/>	<input type="radio"/>	Chara		<input type="radio"/>	<input type="radio"/>	Floating-Leaf Pondweed		<input type="radio"/>	<input type="radio"/>	Robbins Pondweed	
<input type="radio"/>	<input type="radio"/>	Coontail		<input type="radio"/>	<input type="radio"/>	Illinois Pondweed		<input type="radio"/>	<input type="radio"/>	Sago Pondweed	
<input type="radio"/>	<input type="radio"/>	Curly-Leaf Pondweed		<input type="radio"/>	<input type="radio"/>	Large-Leaf Pondweed		<input type="radio"/>	<input type="radio"/>	Starry Stonewort	
<input type="radio"/>	<input type="radio"/>	Duckweed		<input type="radio"/>	<input type="radio"/>	Northern Milfoil		<input type="radio"/>	<input type="radio"/>	Watershield	
<input type="radio"/>	<input type="radio"/>	Elodea		<input checked="" type="radio"/>	<input type="radio"/>	Phragmites	1	<input type="radio"/>	<input type="radio"/>	White Water Lily	
<input type="radio"/>	<input type="radio"/>	Eurasian/hybrid Milfoil		<input type="radio"/>	<input type="radio"/>	Planktonic Algae		<input type="radio"/>	<input type="radio"/>	White-Stem Pondweed	
<input type="radio"/>	<input type="radio"/>	Filamentous Algae		<input type="radio"/>	<input type="radio"/>	Purple Loosestrife		<input type="radio"/>	<input type="radio"/>	Wild Celery	
<input checked="" type="radio"/>	<input type="radio"/>	Willows	1	<input type="radio"/>	<input type="radio"/>	[Enter species name]		<input type="radio"/>	<input type="radio"/>	[Enter species name]	



## 2019 Storm Water Activity Summary Report

### Winter Road Maintenance:

- 91 lane miles are maintained for snow and ice control by anti-icing, plowing and salting operations.
- 556 tons of salt and 5746 gallons of pre-wet salt brine was applied during 22 snow/ice control operations.
- 14,500 gallons of salt brine was applied to 375 lane miles over 10 anti-icing operations.
- Salt is only applied in enough quantities to provide safe driving conditions while considering the environmental effects of chloride.
- Salt, pre-wet and anti-icing brine application equipment is calibrated annually.
- Anti-icing operations are conducted when weather conditions are appropriate.
- Route drivers are updated on weather conditions as events unfold to ensure proper product applications.
- Snow removal operations are conducted in the downtown when pedestrian safety is an issue.
- Removed snow is stored at a lot near River Crest Court and Main St.
- The Mukwonago Area School District and Towns of Vernon and East Troy purchases salt brine from the village for the pre-wet and anti-icing program.







## 2019 Storm Water Activity Summary Report

### Construction Site Pollution Control:

The Village of Mukwonago's construction Site Pollution Control Program aims to minimize the amounts of Total Suspended Solids and other associated pollutants that can enter local lakes, streams and wetlands as a result of disturbance and exposure to rain and snow melt construction activities. Processes include, permit and plan reviews, construction site erosion control inspections and best management practices following technical standards.

- There was a total of 24 active sites during the reporting year.
- Ten new permits were issued. 375 inspections completed by Ruekert & Mielke, Inc. the village's contracted engineering firm.
- 170 inspection reports identified erosion control violations.
- Three stop work orders were issued for non-compliance.
- Ruekert & Mielke, Inc staff inspect the Village's projects best management practices within 24 hours after each rain event of 0.5 inch or more, and at least once each week.
- Private development sites best management practices shall be inspected within 24 hours after each rain event of 0.5 inch or more that results in runoff, and at least once each week by a qualified inspector.
- Development sites are inspected monthly by R & M staff unless reported violations require weekly site visits.
- Construction review technicians (CRT) are updated on site erosion control issues and provide another source for issues and corrective actions.



## 2019 Storm Water Activity Summary Report

### Leaf and Yard Waste:

The Village contracts for residential yard waste collections with Johns Disposal Inc...

- Six curbside collection events were held and two drop-off event were held in 2019.
- Two collections are scheduled in November targeting leaf collection.
- 89.7 tons of yard waste was collected.
- 28.8 tons were collected during the fourth quarter of 2019 compared to 99.4 tons collected during the same time frame in 2018.
- 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.
- Park leaves are mulched and left on site.

# THE VILLAGE OF MUKWONAGO

## Fourth Quarter 2019 Recycling Report

Single Stream, Tons	Year Total	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
Mixed Paper	365.4	89.5	91.8	88.6	95.4
Cardboard	138.6	34.0	34.8	33.6	36.2
Glass	168.2	41.2	42.3	40.8	43.9
#1 Plastic	30.4	7.5	7.6	7.4	7.9
#2 Natural HDPE	9.0	2.2	2.3	2.2	2.4
#2 Colored HDPE	10.1	2.5	2.5	2.4	2.6
#3-7 Plastic	8.3	2.0	2.1	2.0	2.2
Rigid Plastic	3.6	0.9	0.9	0.9	0.9
Tin Cans	19.8	4.8	5.0	4.8	5.2
Al Cans	6.4	1.6	1.6	1.5	1.7
<b>Single Stream Total</b>	<b>760</b>	<b>186</b>	<b>191</b>	<b>184</b>	<b>198</b>

Recycled Bulk, Tons	Year Total	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
Antifreeze	0.09	0.00	0.02	0.03	0.04
Appliances	3.83	0.79	1.70	1.10	0.24
Batteries	0.79	0.00	0.17	0.12	0.49
Cardboard	4.12	1.04	0.97	1.34	0.77
Metal	5.69	1.48	1.87	1.57	0.76
Oil	2.38	0.15	0.55	0.91	0.77
Tires	9.44	1.04	2.12	3.49	2.78
<b>Recycled Bulk Total</b>	<b>26.32</b>	<b>4.51</b>	<b>7.40</b>	<b>8.56</b>	<b>5.85</b>

<b>Total Recyclables</b>	<b>786</b>	191	198	193	204
<b>Total Garbage**</b>	<b>2551</b>	513	655	700	682

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

Population      8057      *Year to date pounds per capita recycled. WI DNR requires 107 pounds per year.*      **188.6**

Yard Waste	Year Total	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
	89.7	0.0	39.4	21.6	28.8

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



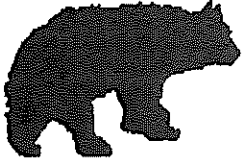


## 2019 Storm Water Activity Summary Report

### Municipal Facility Inspections.

- Municipal yard inspections are conducted quarterly by department supervision. Staff members participate in inspections as training.
- Good housekeeping practices are maintained.
- Street sweeping debris is tarped until it's removed by Johns Disposal to Mallard Ridge Landfill.
- Asphalt lot areas are swept as part of the street sweeping operation. Stock piles are stored in concrete block bins and tarped depending on product.
- Salt storage facility is monitored during snow and ice control operations and inspected annually as required by the state.
- Salt loading area is maintained, and spilled material is swept back into the shed.
- Salt brine manufacturing and storage are located indoors.
- The fueling station contains two double walled 500-gallon tanks, diesel and unleaded.
- Spill kits are located at the fueling station and inside the shop.
- Waste oil is stored in a steel tank with spill containment indoors.
- No equipment washing takes place outdoors.
- Equipment maintenance and repairs are conducted indoors.
- Shop floor drains have oil separators and are monitored during the quarterly inspection. Cleaned as needed or annually at a minimum.





## 2019 Storm Water Activity Summary Report

### 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.

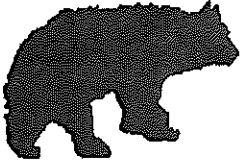
The Public Works yard is a six-acre parcel; the department utilizes approximately five of these acres. The remaining acreage is zoned environmental corridor. A municipal well and water tower are located on the south west corner of the property. The property is bordered on the south by CTH NN E., the Canadian National Rail Road 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



## Village of Mukwonago Office of the Village Public Works Dept.

440 River Crest Court, Mukwonago, Wisconsin 53149  
(262) 363-6447 Fax: (262) 363-7197

[www.villageofmukwonago.com](http://www.villageofmukwonago.com)

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.

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

- Installing bays around stockpiled material
- Using wattles around stock pile not contained within a bin.
- Tarping street sweepings and stock piles.
- 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.

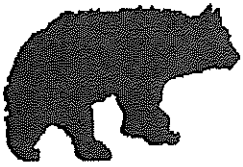
Building of stockpile containment bins was started several years ago, cold patch material and street sweepings are currently binned and tarped. Any material that spills or is tracked away from the immediate storage area is swept up and deposited back onto the piles. Loose salt that spills or is tracked 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.

### **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.
2. Relocate the 3-sided bay around the street sweepings to prevent runoff from carrying the collected particles off-site; a tarp or cover over the street sweepings pile would further reduce the potential for runoff from this material.
- 3.

### **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.

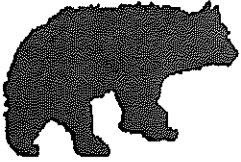
Staff are trained on which authorities to contact depending on the situation, such as the Fire Department, Police Department, or the Wisconsin Department of Natural Resources.

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**



## Village of Mukwonago Office of the Village Public Works Dept.

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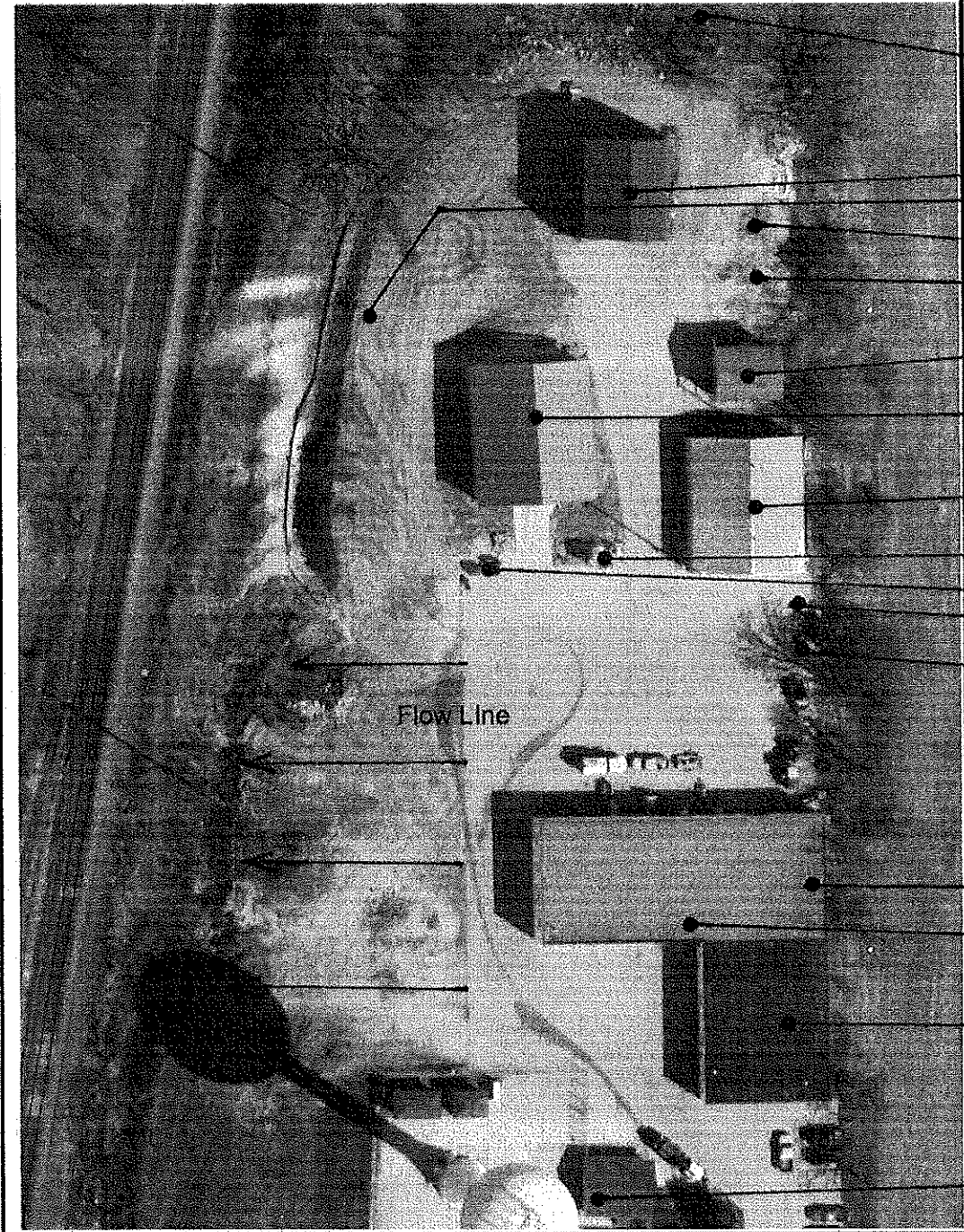
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Inspections are conducted quarterly and documented on a SWPPP inspection form. Items noted on the inspection reports are corrected as soon as possible. The yard is evaluated on a recurring basis to improve operations.

**Legend**

- Compost Pile
- Salt Shed
- Seeded Topsoil Pile
- Road Gravel Pile
- #1 Stone Pile
- Sand /Salt Shed
- DPW Cold Storage
- PD Cold Storage
- Fueling Station/  
Two 1000 Gal Tanks  
Dumpsters
- Tarped Cold Patch
- Bin for Street  
Sweepings
- Waste Oil Tank  
Located in Garage
- 1500 Gal Salt Brine  
Tank
- DPW Maintenance  
Shop
- Municipal Well and  
Water Tower



Flow Line

**Notes:**

0 83.33 Feet

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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 East Veterans Way Mukwonago, WI 53149
Inspector/Title:	Lee Wegner / DPW Crew Supervisor
Date:	3-12-2019
Last Inspection (Date):	12-27-2018

### 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 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 type="checkbox"/> N/A <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input 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 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 type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
2	Grass filter strips typically have 6 inches or more of vegetation	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	Yes <input 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 checked="" 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 checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
5	Storm water pond berms are stable (no erosion, tree roots or animal borrows)	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" 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 checked="" 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 checked="" 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 checked="" 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"/>	

	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 East Veterans Way Mukwonago, WI 53149
Inspector/Title:	Lee Wegner / Crew Supervisor DPW
Date:	6-5-2019
Last Inspection (Date):	3-12-2019

### 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 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 type="checkbox"/> N/A <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input 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 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 type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
2	Grass filter strips typically have 6 inches or more of vegetation	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	Yes <input 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 checked="" 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 checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
5	Storm water pond berms are stable (no erosion, tree roots or animal borrows)	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" 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 checked="" 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 checked="" 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 checked="" 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"/>	

	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 East Veterans Way Mukwonago, WI 53149
Inspector/Title:	Lee Wegner/Crew Supervisor DPW
Date:	9-16-2019
Last Inspection (Date):	6-5-2019

### 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 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 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"/>	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 checked="" 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 checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
5	Storm water pond berms are stable (no erosion, tree roots or animal borrows)	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" 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 checked="" 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 checked="" 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 checked="" 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"/>	

	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 East Veterans Way Mukwonago, WI 53149
Inspector/Title:	Lee Wegner/ Crew Supervisor DPW
Date:	12-23-2019
Last Inspection (Date):	9-15-2019

### 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 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 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 type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	Yes <input 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 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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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## 2019 Storm Water Activity Summary Report

### IDDE:

- There are 130 outfalls in the village. 19 of the outfalls are identified as priority.
- The village is divided into five zones for outfall inspections. Village wide priority cutfalls and outfalls within the designated zone are inspected annually.
- The 14 priority (9 major and 5 minor) and three additional out falls from zone 3 were inspected.
- Eight inspections exhibited minor flows and were within allowable limits. Screening sheets are included in the summary.
- Revised IDDE program included in this summary.

**Village of Mukwonago  
 Illicit Discharge Detection and Elimination Program  
 Revised November, 2019**

- 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.
- These 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.

Parameters	Action Level	Illicit Sources	Non-Illicit Sources
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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Parameters	Action Level	Illicit Sources	Non-Illicit Sources
	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

MS

**Violations**

- Whenever Village staff find 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**

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

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

**Priority Outfalls**

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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7	ST243002	Major		N of CTH NN, between CTH ES & River Park Circle W
8	ST251006	Major		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		W of Bay View Ct.
18	ST353009	Major		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 GSOF002 ("H"). Outfall GSOF002 ("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.

There are a few areas with swales within the Village limits. 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 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.

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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,

## ILLICIT DISCHARGE FIELD SCREENING SHEET

### SECTION 1: BACKGROUND DATA

Subwatershed: Mukwonago		Outfall ID: GSOF002	
Today's date: 10/17/2019		Time (Military): 08:56	
Investigators: Ron Bittner		Form completed by: Ron Bittner	
Temperature (°F): 41	Rainfall (in.): Last 24 hours: 0.0      Last 48 hours: 0.0		
Nearest Intersection / Location: Holz Pkwy. & Perkins Dr.			
Photo #s:		Land use in drainage area: Institutional, Industrial	
Notes (e.g., origin of outfall, if known): Mukwonago Industrial Park			

### SECTION 2: OUTFALL DESCRIPTION

Location	Material	Shape	Dimensions (in.)	Submerged
<input type="checkbox"/> Closed Pipe <input checked="" type="checkbox"/> Open Drainage				No
Flow Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>If No, Skip to Section 5</i>		
Flow Description	<input checked="" type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### SECTION 3: QUANTITATIVE CHARACTERIZATION

Flow Depth (ft)	Flow Width (ft)	Measured Length (ft)	Time of Travel (sec)	Volume (cu ft)	Time To Fill (sec)	Temperature (F)	pH	Ammonia (PPM)
						51	7.5	

#### SECTION 4: PHYSICAL INDICATORS FOR FLOWING OUTFALLS ONLY

Is Any Physical Indicator Present in the flow?     Yes     No

#### SECTION 5: PHYSICAL INDICATORS FOR BOTH FLOWING AND NON-FLOWING OUTFALL

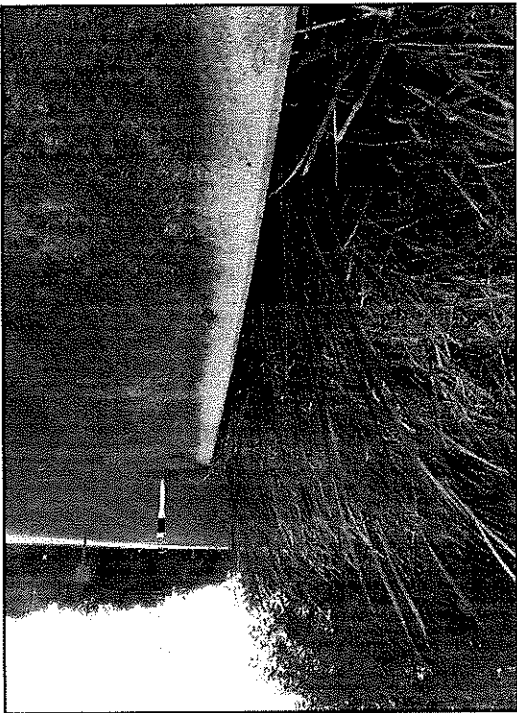
Are Any Physical Indicators that are not related to flow present?     Yes     No

INDICATOR	DESCRIPTION	INDICATOR	DESCRIPTION
<input type="checkbox"/> Odor	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/Sour <input type="checkbox"/> Petroleum/Gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other : _____	<input type="checkbox"/> Outfall Damage	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Corrosion <input type="checkbox"/> Peeling Paint
<input type="checkbox"/> Color	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other: _____	<input type="checkbox"/> Deposits/Stains	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other: _____
<input type="checkbox"/> Turbidity	<input type="checkbox"/> 1 - Slight Cloudiness <input type="checkbox"/> 2 - Cloudy <input type="checkbox"/> 3 - Opaque	<input checked="" type="checkbox"/> Abnormal Vegetation	<input checked="" type="checkbox"/> Excessive <input type="checkbox"/> Inhibited
<input type="checkbox"/> Floatables	<input type="checkbox"/> Sewage (Toilet Paper, Etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (Oil Sheen) <input type="checkbox"/> Other : _____	<input type="checkbox"/> Poor Pool Quality	<input type="checkbox"/> Odors <input type="checkbox"/> Suds <input type="checkbox"/> Floatables <input type="checkbox"/> Yellow <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other: _____

### SECTION 6: DATA COLLECTION

1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Samples Taken:	<input type="checkbox"/> Copper (mg/l) <input type="checkbox"/> Phenols <input type="checkbox"/> Surfactants <input type="checkbox"/> Detergents (mg/l) <input type="checkbox"/> Potassium (mg/l) <input type="checkbox"/> Ecoli <input checked="" type="checkbox"/> Chlorine 0.0 <input type="checkbox"/> Coliform

### SECTION 7: COMMENTS OR OTHER CONCERNS (e.g., trash or needed infrastructure repairs)?



## ILLICIT DISCHARGE FIELD SCREENING SHEET

### SECTION 1: BACKGROUND DATA

Subwatershed: Mukwonago		Outfall ID: GSOF004	
Today's date: 10/17/2019		Time (Military): 09:15	
Investigators: Ron Bittner		Form completed by: Ron Bittner	
Temperature (°F): 41	Rainfall (in.): Last 24 hours: 0.0      Last 48 hours: 0.0		
Nearest Intersection / Location: Holz Pkwy. & Swan Dr.			
Photo #s:		Land use in drainage area: Institutional, Industrial, Commercial	
Notes (e.g., origin of outfall, if known): Mukwonago Industrial Park			

### SECTION 2: OUTFALL DESCRIPTION

Location	Material	Shape	Dimensions (in.)	Submerged
<input type="checkbox"/> Closed Pipe <input checked="" type="checkbox"/> Open Drainage				No
Flow Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>If No, Skip to Section 5</i>		
Flow Description	<input type="checkbox"/> Trickle <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### SECTION 3: QUANTITATIVE CHARACTERIZATION

Flow Depth (ft)	Flow Width (ft)	Measured Length (ft)	Time of Travel (sec)	Volume (cu ft)	Time To Fill (sec)	Temperature (F)	pH	Ammonia (PPM)
						50	7.5	0.0

#### SECTION 4: PHYSICAL INDICATORS FOR FLOWING OUTFALLS ONLY

Is Any Physical Indicator Present in the flow?     Yes     No

#### SECTION 5: PHYSICAL INDICATORS FOR BOTH FLOWING AND NON-FLOWING OUTFALL

Are Any Physical Indicators that are not related to flow present?     Yes     No

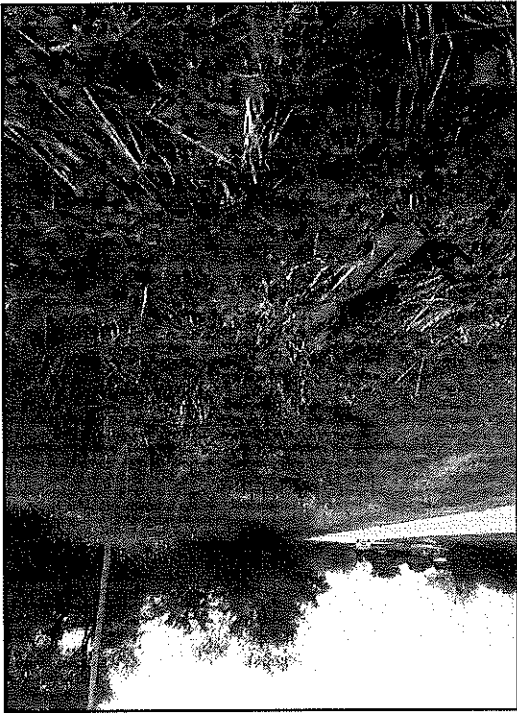
INDICATOR	DESCRIPTION	INDICATOR	DESCRIPTION
<input type="checkbox"/> Odor	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/Sour <input type="checkbox"/> Petroleum/Gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other : _____	<input type="checkbox"/> Outfall Damage	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Corrosion <input type="checkbox"/> Peeling Paint
<input type="checkbox"/> Color	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other: _____	<input type="checkbox"/> Deposits/Stains	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other: _____
<input type="checkbox"/> Turbidity	<input type="checkbox"/> 1 - Slight Cloudiness <input type="checkbox"/> 2 - Cloudy <input type="checkbox"/> 3 - Opaque	<input type="checkbox"/> Abnormal Vegetation	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited
<input type="checkbox"/> Floatables	<input type="checkbox"/> Sewage (Toilet Paper, Etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (Oil Sheen) <input type="checkbox"/> Other : _____	<input type="checkbox"/> Poor Pool Quality	<input type="checkbox"/> Odors <input type="checkbox"/> Suds <input type="checkbox"/> Floatables <input type="checkbox"/> Yellow <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other: _____

### SECTION 6: DATA COLLECTION

1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Samples Taken:	<input type="checkbox"/> Copper (mg/l) <input type="checkbox"/> Phenols <input type="checkbox"/> Surfactants <input type="checkbox"/> Detergents (mg/l)
	<input type="checkbox"/> Potassium (mg/l) <input type="checkbox"/> Ecoli <input checked="" type="checkbox"/> Chlorine 0.0 <input type="checkbox"/> Coliform

### SECTION 7: COMMENTS OR OTHER CONCERNS (e.g., trash or needed infrastructure repairs)?

Wetlands on the west side of Holz Parkway drain down this ditch.



## ILLICIT DISCHARGE FIELD SCREENING SHEET

### SECTION 1: BACKGROUND DATA

Subwatershed: Mukwonago		Outfall ID: ST252001	
Today's date: 10/16/2019		Time (Military): 13:11	
Investigators: Ron Bittner		Form completed by: Ron Bittner	
Temperature (°F): 47	Rainfall (in.): Last 24 hours: 0.0      Last 48 hours: 0.0		
Nearest Intersection / Location: McKenzie Dr. & Plank Rd.			
Photo #s:		Land use in drainage area: Institutional, Industrial	
Notes (e.g., origin of outfall, if known): Businesses Park			

### SECTION 2: OUTFALL DESCRIPTION

Location	Material	Shape	Dimensions (in.)	Submerged
<input checked="" type="checkbox"/> Closed Pipe <input type="checkbox"/> Open Drainage	Concrete		48	No
Flow Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description	<input checked="" type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### SECTION 3: QUANTITATIVE CHARACTERIZATION

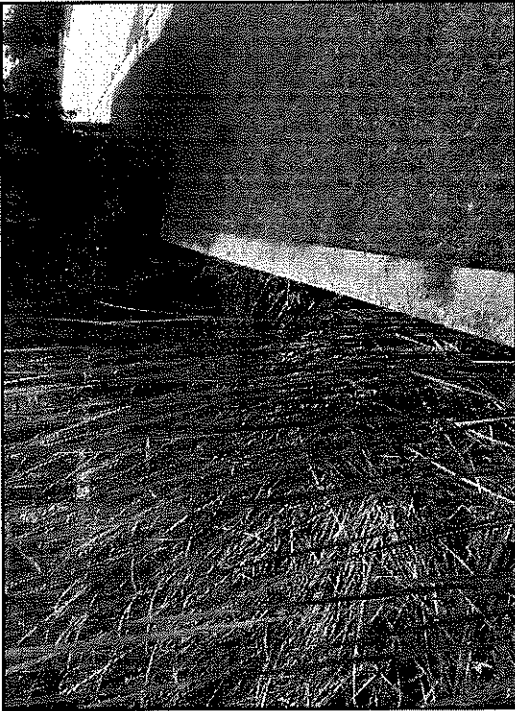
Flow Depth (ft)	Flow Width (ft)	Measured Length (ft)	Time of Travel (sec)	Volume (cu ft)	Time To Fill (sec)	Temperature (F)	pH	Ammonia (PPM)
						55	7.5	0.1

SECTION 4: PHYSICAL INDICATORS FOR FLOWING OUTFALLS ONLY	SECTION 5: PHYSICAL INDICATORS FOR BOTH FLOWING AND NON-FLOWING OUTFALL		
Is Any Physical Indicator Present in the flow? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Are Any Physical Indicators that are not related to flow present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<b>INDICATOR</b>	<b>DESCRIPTION</b>	<b>INDICATOR</b>	<b>DESCRIPTION</b>
<input type="checkbox"/> Odor	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/Sour <input type="checkbox"/> Petroleum/Gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other : _____	<input type="checkbox"/> Outfall Damage	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Corrosion <input type="checkbox"/> Peeling Paint
<input type="checkbox"/> Color	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other: _____	<input type="checkbox"/> Deposits/Stains	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other: _____
<input type="checkbox"/> Turbidity	<input type="checkbox"/> 1 - Slight Cloudiness <input type="checkbox"/> 2 - Cloudy <input type="checkbox"/> 3 - Opaque	<input checked="" type="checkbox"/> Abnormal Vegetation	<input checked="" type="checkbox"/> Excessive <input type="checkbox"/> Inhibited
<input type="checkbox"/> Floatables	<input type="checkbox"/> Sewage (Toilet Paper, Etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (Oil Sheen) <input type="checkbox"/> Other : _____	<input type="checkbox"/> Poor Pool Quality	<input type="checkbox"/> Odors <input type="checkbox"/> Suds <input type="checkbox"/> Floatables <input type="checkbox"/> Yellow <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other: _____

### SECTION 6: DATA COLLECTION

1. Sample for the lab?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2. If yes, collected from:	<input checked="" type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Samples Taken:	<input checked="" type="checkbox"/> Copper (mg/l) 0.0 <input checked="" type="checkbox"/> Phenols Chemical <input type="checkbox"/> Surfactants <input checked="" type="checkbox"/> Detergents (mg/l) 0.0 <input type="checkbox"/> Potassium (mg/l) <input type="checkbox"/> Ecoll <input checked="" type="checkbox"/> Chlorine 0.0 <input type="checkbox"/> Coliform

### SECTION 7: COMMENTS OR OTHER CONCERNS (e.g., trash or needed infrastructure repairs)?





## ILLICIT DISCHARGE FIELD SCREENING SHEET

### SECTION 1: BACKGROUND DATA

Subwatershed: Mukwonago		Outfall ID: ST351002	
Today's date: 11/5/2019		Time (Military): 13:15	
Investigators: Ron Bittner		Form completed by: Ron Bittner	
Temperature (°F): 42	Rainfall (in.): Last 24 hours: 0.0      Last 48 hours: 0.0		
Nearest Intersection / Location: South Rochester Street & Front Street			
Photo #s:		Land use in drainage area: Residential, institutional, Commercial, green spa	
Notes (e.g., origin of outfall, if known):			

### SECTION 2: OUTFALL DESCRIPTION

Location	Material	Shape	Dimensions (in.)	Submerged
<input checked="" type="checkbox"/> Closed Pipe <input type="checkbox"/> Open Drainage	Concrete	Round	36	No
Flow Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description	<input checked="" type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### SECTION 3: QUANTITATIVE CHARACTERIZATION

Flow Depth (ft)	Flow Width (ft)	Measured Length (ft)	Time of Travel (sec)	Volume (cu ft)	Time To Fill (sec)	Temperature (F)	pH	Ammonia (PPM)
						45	7.5	0.0

#### SECTION 4: PHYSICAL INDICATORS FOR FLOWING OUTFALLS ONLY

Is Any Physical Indicator Present in the flow?     Yes     No

#### SECTION 5: PHYSICAL INDICATORS FOR BOTH FLOWING AND NON-FLOWING OUTFALL

Are Any Physical Indicators that are not related to flow present?     Yes     No

INDICATOR	DESCRIPTION	INDICATOR	DESCRIPTION
<input type="checkbox"/> Odor	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/Sour <input type="checkbox"/> Petroleum/Gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other : _____	<input type="checkbox"/> Outfall Damage	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Corrosion <input type="checkbox"/> Peeling Paint
<input type="checkbox"/> Color	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other: _____	<input type="checkbox"/> Deposits/Stains	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other: _____
<input type="checkbox"/> Turbidity	<input type="checkbox"/> 1 - Slight Cloudiness <input type="checkbox"/> 2 - Cloudy <input type="checkbox"/> 3 - Opaque	<input type="checkbox"/> Abnormal Vegetation	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited
<input type="checkbox"/> Floatables	<input type="checkbox"/> Sewage (Toilet Paper, Etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (Oil Sheen) <input type="checkbox"/> Other : _____	<input type="checkbox"/> Poor Pool Quality	<input type="checkbox"/> Odors <input type="checkbox"/> Suds <input type="checkbox"/> Floatables <input type="checkbox"/> Yellow <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other: _____

### SECTION 6: DATA COLLECTION

1. Sample for the lab?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2. If yes, collected from:	<input checked="" type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Samples Taken:	<input checked="" type="checkbox"/> Copper (mg/l) 0.0 <input checked="" type="checkbox"/> Phenols Chemical <input type="checkbox"/> Surfactants <input checked="" type="checkbox"/> Detergents (mg/l) 0.0 <input type="checkbox"/> Potassium (mg/l) <input type="checkbox"/> Ecoli <input checked="" type="checkbox"/> Chlorine 0.0 <input type="checkbox"/> Coliform

### SECTION 7: COMMENTS OR OTHER CONCERNS (e.g., trash or needed infrastructure repairs)?

## ILLICIT DISCHARGE FIELD SCREENING SHEET

### SECTION 1: BACKGROUND DATA

Subwatershed: Mukwonago		Outfall ID: ST361002	
Today's date: 11/5/2019		Time (Military): 14:15	
Investigators: Ron Bittner		Form completed by: Ron Bittner	
Temperature (°F): 42	Rainfall (in.): Last 24 hours: 0.0      Last 48 hours: 0.0		
Nearest Intersection / Location: East Termini of East Wolf Run			
Photo #s:		Land use in drainage area: Commercial Open Space	
Notes (e.g., origin of outfall, if known):			

### SECTION 2: OUTFALL DESCRIPTION

Location	Material	Shape	Dimensions (in.)	Submerged
<input checked="" type="checkbox"/> Closed Pipe <input type="checkbox"/> Open Drainage			54	No
Flow Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>If No, Skip to Section 5</i>		
Flow Description	<input checked="" type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### SECTION 3: QUANTITATIVE CHARACTERIZATION

Flow Depth (ft)	Flow Width (ft)	Measured Length (ft)	Time of Travel (sec)	Volume (cu ft)	Time To Fill (sec)	Temperature (F)	pH	Ammonia (PPM)
						51	7.5	0.0

#### SECTION 4: PHYSICAL INDICATORS FOR FLOWING OUTFALLS ONLY

Is Any Physical Indicator Present in the flow?     Yes     No

#### SECTION 5: PHYSICAL INDICATORS FOR BOTH FLOWING AND NON-FLOWING OUTFALL

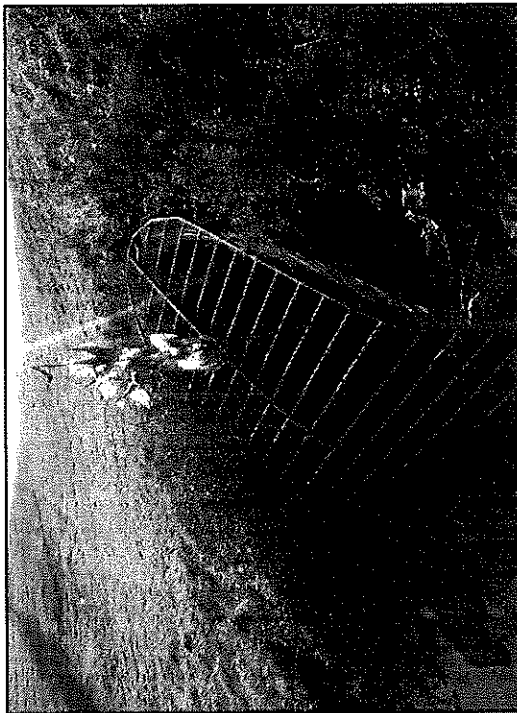
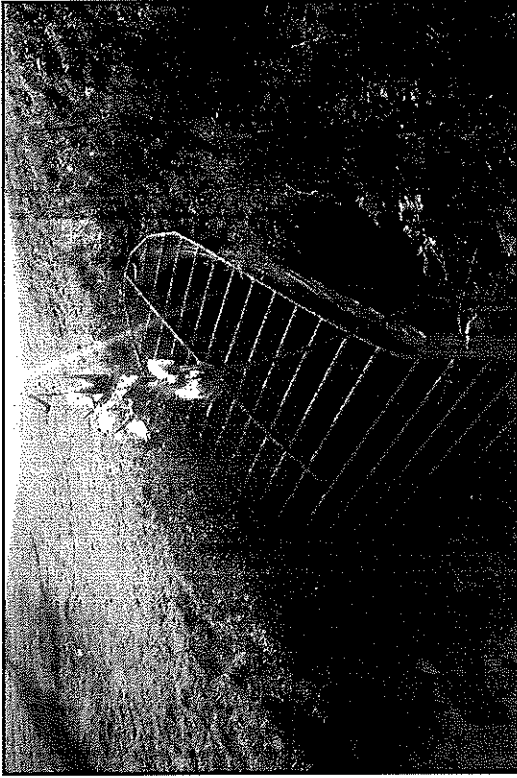
Are Any Physical Indicators that are not related to flow present?     Yes     No

INDICATOR	DESCRIPTION	INDICATOR	DESCRIPTION
<input type="checkbox"/> Odor	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/Sour <input type="checkbox"/> Petroleum/Gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other : _____	<input type="checkbox"/> Outfall Damage	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Corrosion <input type="checkbox"/> Peeling Paint
<input type="checkbox"/> Color	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other: _____	<input type="checkbox"/> Deposits/Stains	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other: _____
<input type="checkbox"/> Turbidity	<input type="checkbox"/> 1 - Slight Cloudiness <input type="checkbox"/> 2 - Cloudy <input type="checkbox"/> 3 - Opaque	<input type="checkbox"/> Abnormal Vegetation	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited
<input type="checkbox"/> Floatables	<input type="checkbox"/> Sewage (Toilet Paper, Etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (Oil Sheen) <input type="checkbox"/> Other : _____	<input type="checkbox"/> Poor Pool Quality	<input type="checkbox"/> Odors <input type="checkbox"/> Suds <input type="checkbox"/> Floatables <input type="checkbox"/> Yellow <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other: _____

### SECTION 6: DATA COLLECTION

1. Sample for the lab?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2. If yes, collected from:	<input checked="" type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Samples Taken:	<input checked="" type="checkbox"/> Copper (mg/l) 0.0 <input checked="" type="checkbox"/> Phenols Chemical <input type="checkbox"/> Surfactants <input checked="" type="checkbox"/> Detergents (mg/l) 0.0 <input type="checkbox"/> Potassium (mg/l) <input type="checkbox"/> Ecoli <input checked="" type="checkbox"/> Chlorine 0.0 <input type="checkbox"/> Coliform

### SECTION 7: COMMENTS OR OTHER CONCERNS (e.g., trash or needed infrastructure repairs)?



## ILLCIT DISCHARGE FIELD SCREENING SHEET

### SECTION 1: BACKGROUND DATA

Subwatershed: Mukwonago		Outfall ID: ST363008	
Today's date: 11/5/2019		Time (Military): 13:37	
Investigators: Ron Bittner		Form completed by: Ron Bittner	
Temperature (°F): 42	Rainfall (in.): Last 24 hours: 0.0      Last 48 hours: 0.0		
Nearest Intersection / Location: West Termini Dewey Dr.			
Photo #s:		Land use in drainage area: Industrial, open space	
Notes (e.g., origin of outfall, if known):			

### SECTION 2: OUTFALL DESCRIPTION

Location	Material	Shape	Dimensions (in.)	Submerged
<input checked="" type="checkbox"/> Closed Pipe <input type="checkbox"/> Open Drainage	Concrete	Round	48	Yes
Flow Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description	<input type="checkbox"/> Trickle <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### SECTION 3: QUANTITATIVE CHARACTERIZATION

Flow Depth (ft)	Flow Width (ft)	Measured Length (ft)	Time of Travel (sec)	Volume (cu ft)	Time To Fill (sec)	Temperature (F)	pH	Ammonia (PPM)
						50	7.5	0.0

#### SECTION 4: PHYSICAL INDICATORS FOR FLOWING OUTFALLS ONLY

Is Any Physical Indicator Present in the flow?     Yes     No

#### SECTION 5: PHYSICAL INDICATORS FOR BOTH FLOWING AND NON-FLOWING OUTFALL

Are Any Physical Indicators that are not related to flow present?     Yes     No

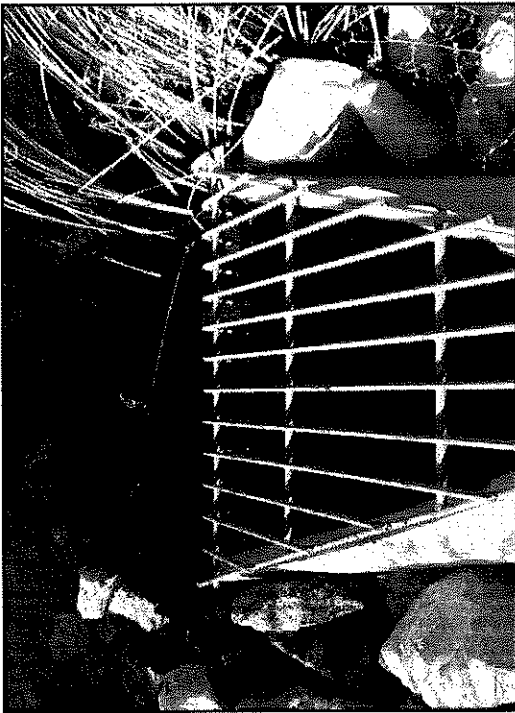
INDICATOR	DESCRIPTION	INDICATOR	DESCRIPTION
<input type="checkbox"/> Odor	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/Sour <input type="checkbox"/> Petroleum/Gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other : _____	<input type="checkbox"/> Outfall Damage	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Corrosion <input type="checkbox"/> Peeling Paint
<input type="checkbox"/> Color	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other: _____	<input type="checkbox"/> Deposits/Stains	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other: _____
<input type="checkbox"/> Turbidity	<input type="checkbox"/> 1 - Slight Cloudiness <input type="checkbox"/> 2 - Cloudy <input type="checkbox"/> 3 - Opaque	<input type="checkbox"/> Abnormal Vegetation	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited
<input type="checkbox"/> Floatables	<input type="checkbox"/> Sewage (Toilet Paper, Etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (Oil Sheen) <input type="checkbox"/> Other : _____	<input type="checkbox"/> Poor Pool Quality	<input type="checkbox"/> Odors <input type="checkbox"/> Suds <input type="checkbox"/> Floatables <input type="checkbox"/> Yellow <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other: _____

### SECTION 6: DATA COLLECTION

1. Sample for the lab?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2. If yes, collected from:	<input checked="" type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Samples Taken:	<input checked="" type="checkbox"/> Copper (mg/l) 0.0 <input checked="" type="checkbox"/> Phenols Chemical <input type="checkbox"/> Surfactants <input checked="" type="checkbox"/> Detergents (mg/l) 0.0 <input type="checkbox"/> Potassium (mg/l) <input type="checkbox"/> Ecoli <input checked="" type="checkbox"/> Chlorine 0.0 <input type="checkbox"/> Coliform

### SECTION 7: COMMENTS OR OTHER CONCERNS (e.g., trash or needed infrastructure repairs)?

Drain tile installed during construction collects ground water from under the street and drains into this storm system.



## ILLICIT DISCHARGE FIELD SCREENING SHEET

### SECTION 1: BACKGROUND DATA

Subwatershed: Mukwonago		Outfall ID: ST252002	
Today's date: 10/16/2019		Time (Military): 12:41	
Investigators: Ron Bittner		Form completed by: Ron Bittner	
Temperature (°F): 48	Rainfall (in.): Last 24 hours: 0.0      Last 48 hours: 0.0		
Nearest Intersection / Location: Fox Street & McKenzie Dr.			
Photo #s:		Land use in drainage area: Commercial, institutional	
Notes (e.g., origin of outfall, if known): Green Ridge shopping center			

### SECTION 2: OUTFALL DESCRIPTION

Location	Material	Shape	Dimensions (in.)	Submerged
<input checked="" type="checkbox"/> Closed Pipe <input type="checkbox"/> Open Drainage	Concrete	Round	36	No
Flow Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description	<input checked="" type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### SECTION 3: QUANTITATIVE CHARACTERIZATION

Flow Depth (ft)	Flow Width (ft)	Measured Length (ft)	Time of Travel (sec)	Volume (cu ft)	Time To Fill (sec)	Temperature (F)	pH	Ammonia (PPM)
						60	7.5	0.1

### SECTION 4: PHYSICAL INDICATORS FOR FLOWING OUTFALLS ONLY

Is Any Physical Indicator Present in the flow?     Yes     No

### SECTION 5: PHYSICAL INDICATORS FOR BOTH FLOWING AND NON-FLOWING OUTFALL

Are Any Physical Indicators that are not related to flow present?     Yes     No

INDICATOR	DESCRIPTION	INDICATOR	DESCRIPTION
<input type="checkbox"/> Odor	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/Sour <input type="checkbox"/> Petroleum/Gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other : _____	<input type="checkbox"/> Outfall Damage	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Corrosion <input type="checkbox"/> Peeling Paint
<input type="checkbox"/> Color	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other: _____	<input type="checkbox"/> Deposits/Stains	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other: _____
<input type="checkbox"/> Turbidity	<input type="checkbox"/> 1 - Slight Cloudiness <input type="checkbox"/> 2 - Cloudy <input type="checkbox"/> 3 - Opaque	<input type="checkbox"/> Abnormal Vegetation	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited
<input type="checkbox"/> Floatables	<input type="checkbox"/> Sewage (Tollet Paper, Etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (Oil Sheen) <input type="checkbox"/> Other : _____	<input type="checkbox"/> Poor Pool Quality	<input type="checkbox"/> Odors <input type="checkbox"/> Suds <input type="checkbox"/> Floatables <input type="checkbox"/> Yellow <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other: _____

### SECTION 6: DATA COLLECTION

1. Sample for the lab?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2. If yes, collected from:	<input checked="" type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Samples Taken:	<input checked="" type="checkbox"/> Copper (mg/l) 0.0 <input checked="" type="checkbox"/> Phenols Chemical <input type="checkbox"/> Surfactants <input checked="" type="checkbox"/> Detergents (mg/l) 0.0 <input type="checkbox"/> Potassium (mg/l) <input type="checkbox"/> Ecoli <input checked="" type="checkbox"/> Chlorine 0.0 <input type="checkbox"/> Coliform

### SECTION 7: COMMENTS OR OTHER CONCERNS (e.g., trash or needed infrastructure repairs)?



## ILLICIT DISCHARGE FIELD SCREENING SHEET

### SECTION 1: BACKGROUND DATA

Subwatershed: Mukwonago		Outfall ID: ST264001	
Today's date: 11/5/2019		Time (Military): 13:00	
Investigators: Ron Bittner		Form completed by: Ron Bittner	
Temperature (°F): 42	Rainfall (in.): Last 24 hours: 0.0      Last 48 hours: 0.0		
Nearest Intersection / Location: Henry St. east termini.			
Photo #s:		Land use in drainage area: Residential, Transport repair	
Notes (e.g., origin of outfall, if known):			

### SECTION 2: OUTFALL DESCRIPTION

Location	Material	Shape	Dimensions (in.)	Submerged
<input checked="" type="checkbox"/> Closed Pipe <input type="checkbox"/> Open Drainage	Concrete		24	No
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description	<input checked="" type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### SECTION 3: QUANTITATIVE CHARACTERIZATION

Flow Depth (ft)	Flow Width (ft)	Measured Length (ft)	Time of Travel (sec)	Volume (cu ft)	Time To Fill (sec)	Temperature (F)	pH	Ammonia (PPM)
						54	7.5	0.0

SECTION 4: PHYSICAL INDICATORS FOR FLOWING OUTFALLS ONLY	SECTION 5: PHYSICAL INDICATORS FOR BOTH FLOWING AND NON-FLOWING OUTFALL		
Is Any Physical Indicator Present in the flow? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Are Any Physical Indicators that are not related to flow present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
INDICATOR	DESCRIPTION	INDICATOR	DESCRIPTION
<input type="checkbox"/> Odor	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/Sour <input type="checkbox"/> Petroleum/Gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other : _____	<input type="checkbox"/> Outfall Damage	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Corrosion <input type="checkbox"/> Peeling Paint
<input type="checkbox"/> Color	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other: _____	<input type="checkbox"/> Deposits/Stains	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other: _____
<input type="checkbox"/> Turbidity	<input type="checkbox"/> 1 - Slight Cloudiness <input type="checkbox"/> 2 - Cloudy <input type="checkbox"/> 3 - Opaque	<input type="checkbox"/> Abnormal Vegetation	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited
<input type="checkbox"/> Floatables	<input type="checkbox"/> Sewage (Toilet Paper, Etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (Oil Sheen) <input type="checkbox"/> Other : _____	<input type="checkbox"/> Poor Pool Quality	<input type="checkbox"/> Odors <input type="checkbox"/> Suds <input type="checkbox"/> Floatables <input type="checkbox"/> Yellow <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other: _____

### SECTION 6: DATA COLLECTION

1. Sample for the lab?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2. If yes, collected from:	<input checked="" type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Samples Taken:	<input checked="" type="checkbox"/> Copper (mg/l) 0.0 <input checked="" type="checkbox"/> Phenols Chemical <input type="checkbox"/> Surfactants <input checked="" type="checkbox"/> Detergents (mg/l) 0.0 <input type="checkbox"/> Potassium (mg/l) <input type="checkbox"/> Ecoli <input checked="" type="checkbox"/> Chlorine 0.0 <input type="checkbox"/> Coliform

### SECTION 7: COMMENTS OR OTHER CONCERNS (e.g., trash or needed infrastructure repairs)?