State of Wisconsin
Department of Natural Resources
dnr.wi.gov

# Annual Report under MS4 General Permit No. WI-S050075-2

Form 3400-195 (R 10/14)



Due by March 31, 2015

**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 (DNR) by March 31 of each year to report on activities for the previous calendar year. This form is being provided by the DNR for the user's convenience. 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.].

This form is for reporting on activities undertaken in calendar year 2014.

**Instructions:** Complete each section of the form that follows. If additional space is needed to respond to a question, attach additional pages. Provide descriptions that explain the program actions taken to comply with the general permit. Complete and submit the annual report by March 31, 2015, to the appropriate address indicated on the last page of this form.

## SECTION I. Municipal Information

| Name of Municipality | | Facility ID No. (FIN) | |
|---|---|---|---|
| Village of Mukjwonago | | 53717 | |
| **Mailing Address** | **City** | **State** | **ZIP Code** |
| P.O.Box 206 ( 440 River Crest Court) | Mukwonago | WI | 53149 |
| **County(s) in which Municipality is located** | **Municipality Type: (select one)** | | |
| Waukesha, Walworth | ○ County ○ City ◉ Village ○ Town ○ Other (specify) | | |

## SECTION II. Municipal Contact Information

| Name of Municipal Contact Person | | Title | |
|---|---|---|---|
| Ron Bittner | | Public Works Coordinator | |
| **Mailing Address (if different from above)** | **City** | **State** | **ZIP Code** |
| PO Box 206 | Mukwonago | WI | 53149 |
| **Email** | **Phone Number (include area code)** | **Fax Number (include area code)** | |
| RBITTNER@VILLAGEOFMUKWONAGO.COM | (262) 363-6447 | (262) 363-7197 | |

## SECTION III. Certification

*I hereby certify that I am an authorized representative of the municipality covered under MS4 General Permit No. WI-S050075-2 for which this annual report is being submitted and that the information contained in this document and all attachments were gathered end prepared under my direction or supervision. Based on my inquiry of the person or persons under my direction or supervision involved in the preparation of this document, to the best of my knowledge, the information is true, accurate, and complete. I further certify that the municipality's governing body or delegated representatives have reviewed or been apprised of the contents of this annual report. I understand that Wisconsin law provides severe penalties for submitting false information.*

| Authorized Representative Printed Name | Authorized Representative Title | |
|---|---|---|
| Ron Bittner | DPW Director | |
| **Signature of Authorized Representative** | **Date** | |
| | 03/20/2015 | |
| **Email** | **Phone Number (include area code)** | **Fax Number (include area code)** |
| RBITTNER@VILLAGEOFMUKWONAGO.COM | (262) 363-6447 | (262) 363-7197 |

## SECTION IV. General Information

a. Describe what efforts the municipality has undertaken to invite the municipal governing body, interest groups, and the general public to review and comment on the annual report.

The Village website provides information about the Storm Water Permit and a proposed Storm Water Utility. The Village site contains links to various County, State and Federal websites. Information available at the front desk in the Village Hall.

b. Describe how elected and municipal officials and appropriate staff have been kept apprised of the municipal storm water discharge permit and its requirements.

Attendance at the Waukesha County Annual Storm Water Conference, Ruekert & Milke storm water presentations, Wisconsin DNR emails and webinars.

c. Has the municipality prepared its own municipal-wide storm water management plan? ◉ Yes ○ No

If yes, title and date of storm water management plan:

Storm Water Management System Plan 2009. A copy is available upon request at the Village Hall. The plan is also available on the Village website.

## SECTION IV. General Information (continued)

d. Has the municipality entered into a written agreement with another municipality or a contract with another entity to perform one or more of the conditions as provided under section 2.10 of the general permit? ○ Yes ◉ No

If yes, describe these cooperative efforts:

e. Does the municipality have an internet website? ◉ Yes ○ No

If yes, provide web address:
villageofmukwonago.com

If the municipality has an internet website, is there current information about or links provided to the MS4 general permit and/or the municipality's storm water management program? ◉ Yes ○ No

If yes, provide web address:
villageofmukwonago.com

## SECTION V. Permit Conditions

a. Minimum Control Measures: For each of the permit conditions listed below, provide a description of the implementation of each program element, the status of meeting measurable goals, and compliance with permit schedule in section 2.11 of the MS4 general permit. Provide an evaluation of program compliance with the general permit, the appropriateness of identified best management practices, and progress towards achieving identified measurable goals. Be specific in describing the actions that have been taken during the reporting year to implement each permit condition and whether measurable goals have been met, including any data collected to document a measurable goal. Also, explain the reasons for any variations from the compliance schedule in the MS4 general permit.

- Public Education and Outreach

  The Village website. Information and reports are available at the front desk of the Village Hall. The Village hosted the Waukesha County Household Hazardous waste collection in May of 2014. Public Works hosted Waukesha County's informational booth on recycling and storm water at the National Night Out.

- Public Involvement and Participation

  Spring cleanup at Village facilities by local organizations. Litter and pet waste control by residents.

- Illicit Discharge Detection and Elimination

  A sixth round of field screening was completed by Village staff in October of 2014. Results of theses inspections are included with this report.

- Construction Site Pollutant Control

  See attached 2014 Erosion Control Permits page. Visual inspections are completed by Inspection Department staff when on site for building inspections. Village Engineer completes inspections as needed, twice a month at a minimum. Village staff monitors sites as they complete their scheduled tasks.

- Post-Construction Storm Water Management

  Visual inspections by staff while completing daily tasks.

- Pollution Prevention

  The Village spent 240 hours Street Sweeping and 101 hours cleaning Catch Basins with approximately 40 tons collected. Good housekeeping practices at Village facilities by staff. Encouragement of BMP for housekeeping, yard waste and pet waste through dialogue with residents by Village staff.

b. Winter Road Management Activities (Optional reporting for 2014):

Provide the name, title, and phone number for the individual(s) with overall responsibility for winter roadway maintenance.

Ron Bittner
Public Works Coordinator
Office 262-363-6447
Cell 414-550-7507

**SECTION V. Permit Conditions** (continued)

Describe the types of products used for winter road management (e.g. deicing, pre-wetting, salting, etc.).

Salt and sand/salt mix as needed for ice control.

Describe the type of equipment used to apply the products.

Tailgate spreaders.

Report the amount of product used per month.

See attached event log.

Report the snow disposal locations, if snow is hauled away.

Indian Head Park

Describe any anti-icing, equipment calibration, and salt reduction strategies considered.

Prewetting of salt with truck mounted units in the 15-16 season. Possible pavement anti icing with brine in the 15-16 season.

Describe any other additional measurable data or information that the permittee used to evaluate its winter road management activities.

Event Log included with this report.

c. Municipal facility(s) (Optional reporting for 2014):

Provide an inventory of municipally owned or operated structural storm water management facility(s), include: Location of each facility and contact information for the individual(s) with overall responsibility for each facility.

Describe the housekeeping activities and best management practices installed to reduce or eliminate storm water contamination.

Discuss recommendations for improvements to current storm water management practices at the facility(s) and a timeline for installation and/or implementation of these recommendations.

Describe the municipal facility(s) employee training on storm water pollution prevention provided.

Describe the spill prevention and response procedures in place at the municipal facility(s).

d. Storm Water Quality Management: Has the municipality completed a pollutant-loading analysis to assess compliance with the 20% TSS reduction developed urban area performance standard? ◉ Yes ◯ No

If yes, provide the following: Model used SLAMM Version V 9.3 Reduction (%) 24.6

If no, include a description of any actions the municipality has undertaken during 2014 to help achieve the 20% standard.

## SECTION V. Permit Conditions (continued)

Has the municipality completed an evaluation of all municipal owned or operated structural flood control facilities to determine the feasibility of retrofitting to increase TSS removal? ○ Yes ◉ No

If yes, describe:

e. Best Management Practices Maintenance: Does the municipality have a maintenance program for installed storm water best management practices? ◉ Yes ○ No

If yes, describe the maintenance program and any maintenance activities that have occurred for best management practices in 2014. If available, attach any additional information on the maintenance program.

Street sweeping, Storm Grate and CB cleaning. Yard waste disposal is contracted through Johns Disposal. Good house keeping at Village Facilities. Inspection and maintenance at Village owned ponds.

f. Storm Sewer System Map: Describe any changes or updates to the storm sewer system map made in the reporting year. Provide an updated map if any changes occurred during the reporting year.

## SECTION VI. Fiscal Analysis

a. Provide a fiscal analysis that includes the annual expenditures for 2014, and the budget for 2014 and 2015. A table to document fiscal information is provided on page 6.

b. What financing/fiscal strategy has the municipality implemented to finance the requirements of the general permit?

☒ Storm water utility ☒ General fund ☐ Other _____

c. Are adequate revenues being generated to implement your storm water management program to meet the permit requirements? ◉ Yes ○ No

Please provide a brief summary of your financing/fiscal strategy and any additional information that will assist the Department in understanding how storm water management funds are being generated to implement and administer your storm water management program.

A portion of the Village south if Interstate 43 is in a Storm Water Utility that is funded through fees. The remainder of the Village is funded with general tax funds.

## SECTION VII. Inspections and Enforcement Actions

**Note: If an ordinance listed below has previously been submitted and has not been amended since that time, a copy does not need to be submitted again. If the ordinance was previously submitted, indicate such in the space provided.**

a. As of the date of this annual report, has the municipality updated or revised its construction site pollutant control ordinance in accordance with subsection 2.4.1 of the general permit? ◉ Yes ○ No If yes, attach copy or provide web link to ordinance:

villageofmukwonago.com

b. As of the date of this annual report, has the municipality updated or revised its post-construction storm water management ordinance in accordance with subsection 2.5.1 of the general permit? ◉ Yes ○ No

If yes, attach copy or provide web link to ordinance: villageofmukwonago.com

c. As of the date of this annual report, has the municipality updated or revised its illicit discharge detection and elimination ordinance in accordance with subsection 2.3.1 of the general permit? ◉ Yes ○ No If yes, attach copy or provide web link to ordinance:

VILLAGEOFMUKWONAGO.COM

d. As of the date of this annual report, has the municipality adopted any other ordinances it has deemed necessary to implement a program under the general permit (e.g., pet waste ordinance, leaf management/yard waste ordinance, parking restrictions for street cleaning, etc.)? ◉ Yes ○ No If yes, attach copy or provide web link to ordinance:

Pet Waste, Section 14-55 Municipal Code Availible online @ villageofmukwonago.com

## SECTION VII. Inspections and Enforcement Actions (continued)

e. Provide a summary of available information on the number and nature of inspections and enforcement actions conducted during the reporting period to ensure compliance with the ordinances described in a. to d. above.

Six Erosion Control Permits were issued in 2014.
See attached document.

## SECTION VIII. Water Quality Concerns

a. Does any part of the MS4 discharge to an outstanding resource water (ORW) or exceptional resource water (ERW) listed under s. NR 102.10 or 102.11, Wis. Adm. Code? (A list of ORWs and ERWs may be found on the Department's Internet site at: http://dnr.wi.gov/topic/surfacewater/orwerw.html) ◉ Yes ◯ No If yes, list:

Mukwonago River

b. Does any part of the MS4 discharge to an impaired waterbody listed in accordance with section 303(d)(1) of the federal Clean Water Act, 33 USC § 1313(d)(1)(C)? (A list of the most current Wisconsin impaired waterbodies may be found on the Department's Internet site at: http://dnr.wi.gov/water/impairedsearch.aspx?status=303d) ◉ Yes ◯ No If yes, complete the following:

- Impaired waterbody to which the MS4 discharges:
  Fox River
- Description of actions municipality has taken to comply with section 1.5.2 of the MS4 general permit for discharges of pollutant(s) of concern to an impaired waterbody:
  Construction site pollution control and yard waste collections.

c. Identify any known water quality improvements in the receiving water to which the MS4 discharges during the reporting period.

Design and Planning stage for shoreline restoration on the Mukwonago River.

d. Identify any known water quality degradation in the receiving water to which the MS4 discharges during the reporting period and what actions are being taken to improve the water quality in the receiving water.

No known water quality degradation.

## SECTION IX. Proposed Program Changes

Describe any proposed changes to the storm water management program being contemplated by the municipality for 2015 and the schedule for implementing those changes. Proposed program changes must be consistent with the requirements of the general permit.

## SECTION X. Other

Any other additional information the permittee would like to provide in the Annual Report regarding their storm water program?

See attached documentation for expenditure and and budgets. Items from the Fiscal Table are budgeted on a percentage basis throughout the Village Departments (Public Works, Building Inspection, Zoning and Administration)

2014 Erosion Control Permits

| Permit # | # of Inspections | Address | Owner |
|---|---|---|---|
| 14078 | 8 | Wolf Run/ West of YMCA | Greenwald/ Roberts Topsoil |
| 14122 | 2 | NW corner of Roberts Dr. (North of well # 7) | Village of Mukwonago/ Bradford Const. |
| 14149 | 5 | 807 Swan Dr. | AMI Asset Management |
| 14163 | 5 | Wolf Run & Maple Ave. | Greenwald/New Berlin Grading |
| 14185 | 6 | 605 School Rd. | Mukwonago School District/ WH Major & Sons |
| 14187 | 3 | 633 Minors Dr. | WH Major & Sons |

SNOW REMOVAL SUMMERY 2014

| DATE | SNOW DEPTH INCHES | TEMP | WIND SPEED | DIRECTION | CONDITION | TONS OF SALT | ACTION |
|---|---|---|---|---|---|---|---|
| | STRAIGHT SALT | | | | | | |
| 1-Jan | 2 | 10 | | | SNOW | 30 | PLOW ALL STREETS, SALT INTERSECTIONS/ MAIN STREETS |
| 2-Jan | 2 | | | | SNOW | 35 | PLOW ALL STREETS, SALT INTERSECTIONS/ MAIN STREETS |
| 4-Jan | 1.5 | 28 | | | SNOW | 35 | PLOW ALL STREETS, SALT INTERSECTIONS/ MAIN STREETS |
| 10-Jan | | 34 | | | FREEZING RAIN | 35 | SALT ALL STREETS |
| 10-Jan | | 34 | | | FREEZING RAIN | 35 | SALT ALL STREETS |
| 15-Jan | 2.5 | 11 | 5 | W | SNOW | 35 | SALT ALL ROADS WITH PLOWING |
| 17-Jan | 0.5 | 10 | 5 | W | SNOW | 35 | SALT |
| 18-Jan | 1 | 18 | 10 | S | SNOW | 35 | PLOW MAINS SALT ALL STREETS |
| 21-Jan | 0.5 | 0 | 5 | W | SNOW | 25 | SALT MAIN, HILLS AND INTERSECTIONS/DRIFTING FROM PM |
| 22-Jan | 0 | -3 | 15 | WNW | DRIFTING | 20 | HIGH WINDS PRIOR PM, PLOW AS NEEDED, SALT AS NEEDED |
| 25-Jan | 2 | 20 | | | SNOW | 20 | SALT MAINS CURVES AND HILLS |
| 26-Jan | 4 | 19 | 5 | W | SNOW | 35 | PLOW ALL STREETS /SALT HILLS, INTERSECTIONS & CURVES |
| | SWITCHED TO SAND/SALT MIX | | | 50% SALT | | | |
| 30-Jan | 2 | 20 | | | SNOW | 15 | PLOW ALL STREETS /SALT HILLS, INTERSECTIONS & CURVES |
| 1-Feb | 3 | 16 | CALM | | SNOW | 15 | PLOW ALL STREETS /SALT HILLS, INTERSECTIONS & CURVES |
| 5-Feb | 1 | 15 | | | SNOW | 15 | PLOW ALL STREETS /SALT HILLS, INTERSECTIONS & CURVES |
| 8-Feb | 1.5 | 10 | | | SNOW | 15 | PLOW ALL STREETS /SALT HILLS, INTERSECTIONS & CURVES |
| 17-Feb | 6 | 28 | 5 | W | SNOW | 15 | PLOW ALL STREETS /SALT HILLS, INTERSECTIONS & CURVES |
| 20-Feb | 1 | 32 | 5 | E | SNOW | 15 | PLOW ALL STREETS /SALT HILLS, INTERSECTIONS & CURVES |
| 1-Mar | 5 | 15 | | | SNOW | 15 | PLOW ALL STREETS /SALT HILLS, INTERSECTIONS & CURVES |
| 4-Mar | 3 | 15 | | | SNOW | 15 | PLOW ALL STREETS /SALT HILLS, INTERSECTIONS & CURVES |
| 5-Mar | 1.5 | 15 | 10 | NE | SNOW | 15 | PLOW ALL STREETS /SALT HILLS, INTERSECTIONS & CURVES |
| | STRAIGHT SALT | | | | | | |
| 16-Nov | 2 | 20 | CALM | | SNOW | 25 | PLOW ALL STREETS/SALT ALL STREETS |
| 19-Nov | TRACE | 18 | 10 | 5 | SNOW | 5 | SALT INTERSECTIONS, CURVES AND HILLS |
| 22-Nov | | 32 | 10 | | ICE | 15 | SALT ALL ROADS |
| 24-Nov | 0.5 | 24 | 10 | | SNOW & ICE | 25 | SALT ALL ROADS |
| 25-Nov | 2 | 22 | 15 | | SNOW | 25 | SALT ALL ROADS WITH PLOWING |
| 8-Dec | | 21 | CALM | | FREEZING RAIN | 25 | SALT ALL ROADS |
| | | | | | | 630 | |

# Wisconsin DOT - Bureau of Highway Maintenance
## Material Storage Site Management
## Sub-Site Inspection Report
## Sub-Site Label: 2 - 67 - 320 - 2

**District:** 2
**County:** WAUKESHA
**Site:** 320
**Sub-Site:** 2

**Site Address:** 630 County Rd NN
**Site City:** Mukwonago 53149-1187

**Material:** Salt
**Facility Type:** Hi-Arch

**Site Records Kept:**
630 COunty Rd NN
Mukwonago, WI 53149

**Ownership and Compliance**

Owner: Village of Mukwonago
Contact: Ron Bittner
Contact Phone: 262-363-6447
Contact Email: rbittner@villageofmukwonago.com

**Inspection**

Date: 2/25/2014
Inspector: AECOM-Phil Eagan

| Internal DOT Group | Code | Inspection Item | Response | Follow up |
|---|---|---|---|---|
| 10 | 1 | Solid material is stored on a concrete or asphalt pad | Yes | ☐ |
| 10 | 1.1 | Defects (cracks, holes, etc.) in apron | Absent | ☐ |
| 10 | 1.2 | Defects (cracks, holes, etc.) in pad | Absent | ☐ |
| 10 | 1.3 | The pad under the stockpile directs water away from material | Yes | ☐ |
| 10 | 2 | If present, the design and condition of the berm contains runoff on the site's surface | No berm | ☐ |
| 10 | 3 | A catch basin or holding pond serves at least this subsite | N/A | ☐ |
| 11 | 1 | Repairs needed to roof | None | ☐ |
| 11 | 2 | Repairs needed to walls | None | ☐ |
| 11 | 3 | Repairs needed to door(s) | None | ☐ |
| 14 | 1 | Material amount spilled on apron (not from active or recent use) | None | ☐ |
| 14 | 2 | Material amount spilled on grounds (not from active or recent use) | None | ☐ |
| 14 | 3 | Salt from runoff is contained within the salt storage area away from open water sources | Yes | ☐ |
| 14 | 4 | Stored material is effectively protected from the elements | Yes | ☐ |
| 14 | 5 | Monthly material inventory records are available for this subsite | Yes | ☐ |

Note:
Follow-up:

You are encouraged to take appropriate action that may be necessary to bring this subsite into compliance with Trans. 277. If you have questions regarding this report or find any of the identification data to be incorrect, please contact the inspection project manager at the phone number or email address shown below.

**Phone:** 715.341.8110
**Email:** david.senfelds@aecom.com

4/8/2014 1:02:29 PM

# Wisconsin DOT - Bureau of Highway Maintenance
## Material Storage Site Management
## Sub-Site Inspection Report
## Sub-Site Label: 2 - 67 - 320 - 1

**District:** 2
**County:** WAUKESHA
**Site:** 320
**Sub-Site:** 1

**Site Address:** 630 County Rd NN
**Site City:** Mukwonago 53149-1187

**Material:** Salt / Sand
**Facility Type:** Shed

**Site Records Kept:**
630 COunty Rd NN
Mukwonago, WI 53149

**Ownership and Compliance**

Owner: Village of Mukwonago
Contact: Ron Bittner
Contact Phone: 262-363-6447
Contact Email: rbittner@villageofmukwonago.com

**Inspection**

Date: 2/25/2014
Inspector: AECOM-Phil Eagan

| Internal DOT Group | Code | Inspection Item | Response | Follow up |
|---|---|---|---|---|
| 10 | 1 | Solid material is stored on a concrete or asphalt pad | Yes | ☐ |
| 10 | 1.1 | Defects (cracks, holes, etc.) in apron | Absent | ☐ |
| 10 | 1.2 | Defects (cracks, holes, etc.) in pad | Absent | ☐ |
| 10 | 1.3 | The pad under the stockpile directs water away from material | Yes | ☐ |
| 10 | 2 | If present, the design and condition of the berm contains runoff on the site's surface | No berm | ☐ |
| 10 | 3 | A catch basin or holding pond serves at least this subsite | N/A | ☐ |
| 11 | 1 | Repairs needed to roof | None | ☐ |
| 11 | 2 | Repairs needed to walls | None | ☐ |
| 11 | 3 | Repairs needed to door(s) | None | ☐ |
| 14 | 1 | Material amount spilled on apron (not from active or recent use) | Slight | ☐ |
| 14 | 2 | Material amount spilled on grounds (not from active or recent use) | None | ☐ |
| 14 | 3 | Salt from runoff is contained within the salt storage area away from open water sources | Yes | ☐ |
| 14 | 4 | Stored material is effectively protected from the elements | Yes | ☐ |
| 14 | 5 | Monthly material inventory records are available for this subsite | Yes | ☐ |

Note:
Follow-up:

You are encouraged to take appropriate action that may be necessary to bring this subsite into compliance with Trans. 277. If you have questions regarding this report or find any of the identification data to be incorrect, please contact the inspection project manager at the phone number or email address shown below.

**Phone:** 715.341.8110
**Email:** david.senfelds@aecom.com

4/8/2014 1:02:29 PM

Detail for 2015 Adopted Budget

| ID | Fund | Cat | Cat Descr | Account Descr | 2012 Actuals | 2013 Actual | 2014 Amended Budget | 6-30-14 YTD Amount | Year End Estimates | 2015 Proposed Budget | % Change |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 560 | 100 | 5660 | STORMWATER MAST | E 100-5660-5219 Professional Services | - | - | - | - | - | - | 0.0% |
| 561 | 100 | 5660 | STORMWATER MAST | E 100-5660-5352 Stormwater Compliance Expe | - | - | 15,000.00 | - | 15,000.00 | 15,000.00 | 0.0% |
| 562 | 100 | 5660 | STORMWATER MAST | E 100-5660-5354 Stormwater Plan Expense | - | - | - | - | - | - | 0.0% |
| 563 | 100 | 5660 | STORMWATER MAST | E 100-5660-5399 Other | - | - | - | - | - | - | 0.0% |
| | | | | | - | - | 15,000 | - | 15,000 | 15,000 | |

Detail for 2015 Adopted Budget

| ID | Fund | Cat | Cat Descr | Account Descr | 2012 Actuals | 2013 Actual | 2014 Amended Budget | 6-30-14 YTD Amount | Year End Estimates | 2015 Proposed Budget | % Change |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 502 | 100 | 5344 | STORM SEWER | E 100-5344-5110 Salaries & Wages | 4,670.25 | 13,910.22 | 6,326 | 886.21 | 5,500 | 6,500 | 2.8% |
| 503 | 100 | 5344 | STORM SEWER | E 100-5344-5111 Overtime | 18.82 | 354.59 | - | - | - | - | 0.0% |
| 504 | 100 | 5344 | STORM SEWER | E 100-5344-5219 Professional Services | 1,755.42 | 1,765.47 | - | 1,302.48 | 1,500 | - | 0.0% |
| 505 | 100 | 5344 | STORM SEWER | E 100-5344-5395 Repairs & Maintenance | - | 1,266.18 | 5,000 | - | 2,500 | 3,000 | -40.0% |
| | | | | | 6,444 | 17,296 | 11,326 | 2,189 | 9,500 | 9,500 | |

# VILLAGE OF MUKWONAGO
## Proposed 2015 Budget as of 11-18-14
## Tax Supported Funds

| Row Labels | GL Type | Cat Descr | Sum of 2012 Actuals | Sum of 2013 Actual | Sum of 2014 Adopted Budget | Sum of 2014 Amended Budget | Sum of 6-30-14 YTD Amount | Sum of Year End Estimates | Sum of 2015 Proposed Budget | |
|---|---|---|---|---|---|---|---|---|---|---|
| **S00** | | | | | | | | | | |
| Storm Water | Expenditure | | | | | | | | | |
| | **S140** | ADMINISTRATIVE & GENERAL | 55,495 | 29,507 | 28,600 | 28,600 | 4,501 | 8,420 | 30,021 | 5.0% |
| | **5900** | OTHER FINANCING USES | - | 99,333 | 2,600 | 2,600 | - | | 2,625 | 1.0% |
| | Expenditure Total | | 55,495 | 128,840 | 31,200 | 31,200 | 4,501 | 8,420 | 32,646 | 4.6% |
| | | | | | | | | | | 0.0% |
| | Revenue | | | | | | | | | 0.0% |
| | **4430** | PERMITS & FEES | 10,764 | 11,052 | 31,200 | 31,200 | 15,606 | 31,200 | 32,621 | 4.6% |
| | **4800** | MISC REVENUE | - | - | - | - | - | | - | 0.0% |
| | **4810** | INTEREST REVENUE | 13 | 37 | - | - | 9 | 25 | 25 | 0.0% |
| | **4900** | OTHER FINANCING SOURCES | 47,500 | 31,833 | - | - | - | | - | 0.0% |
| | Revenue Total | | 58,277 | 42,922 | 31,200 | 31,200 | 15,614 | 31,225 | 32,646 | |

Village of Mukwonago (7122)

# Labor Distribution

## ** Labor Sum - by Employees w/hours

Pay Dates: 01/01/2014-12/31/2014

| Hours | Department(Level 2) | Department Name (Level2) |
|---|---|---|
| 240.00 | 5300DPW General Administration | 5345Street Cleaning |
| **Report Total** | | |
| 240.00 | | |

Village of Mukwonago (7122)

# Labor Distribution

## ** Labor Sum - by Employees w/hours

Pay Dates: 01/01/2014-12/31/2014

| Hours | Department(Level2) | Department Name (Level2) |
|---|---|---|
| 4.00 | 6920Administrative & General | 5344Storm Sewer |
| 97.00 | 5300DPW General Administration | 5344Storm Sewer |
| **Report Total** | | |
| 101.00 | | |

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 1: Background Data

| | |
|---|---|
| Subwatershed: | Outfall ID: A |
| Today's date: 10-10-14 | Time (Military): 13:22 |
| Investigators: RON BITTNER. | Form completed by: RON BITTNER. |
| Temperature (°F): 53 | Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0 |
| Nearest Intersection / Location: STATE HWY 83 + EAST WOLF RUN. | |
| Camera: | Photo #s: |

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☐ Single Family
- ☒ Multi Family
- ☒ Commercial
- ☐ Open Space
- ☐ Institutional
- Other: _____
- Known Industries: _____

Notes (e.g., origin of outfall, if known):

## Section 2: Outfall Description

| LOCATION | MATERIAL | SHAPE | | DIMENSIONS (IN.) | SUBMERGED |
|---|---|---|---|---|---|
| ☒ Closed Pipe | ☐ RCP ☒ CMP<br>☐ PVC ☐ HDPE<br>☐ Steel<br>☐ Other: _____ | ☒ Circular<br>☐ Eliptical<br>☐ Box<br>☐ Other: _____ | ☒ Single<br>☐ Double<br>☐ Triple<br>☐ Other: _____ | Diameter/Dimensions: 66" | In Water: ☒ No ☐ Partially ☐ Fully<br>With Sediment: ☒ No ☐ Partially ☐ Fully |
| ☐ Open drainage | ☐ Concrete<br>☐ Earthen<br>☐ rip-rap<br>☐ Other: _____ | ☐ Trapezoid<br>☐ Parabolic<br>☐ Other: _____ | | Depth: _____<br>Top Width: _____<br>Bottom Width: _____ | |
| ☐ In-Stream | (applicable when collecting samples) | | | | |
| Flow Present? | ☐ Yes ☒ No *If No, Skip to Section 5* | | | | |
| Flow Description (If present) | ☐ Trickle ☐ Moderate ☐ Substantial | | | | |

## Section 3: Quantitative Characterization

| FIELD DATA FOR FLOWING OUTFALLS | | | | |
|---|---|---|---|---|
| PARAMETER | | RESULT | UNIT | EQUIPMENT |
| ☐ Flow #1 | Volume | | Liter | Bottle |
| | Time to fill | | Sec | |
| ☐ Flow #2 | Flow depth | | In | Tape measure |
| | Flow width | ____' ____" | Ft, In | Tape measure |
| | Measured length | ____' ____" | Ft, In | Tape measure |
| | Time of travel | | S | Stop watch |
| Temperature | | | °F | Thermometer |
| pH | | | pH Units | Test strip/Probe |
| Ammonia | | | mg/L | Test strip |

Ruekert·Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

**Section 4: Physical Indicators for Flowing Outfalls Only**

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

| INDICATOR | CHECK if Present | DESCRIPTION | RELATIVE SEVERITY INDEX (1-3) | | |
|---|---|---|---|---|---|
| Odor | ☐ | ☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other: | ☐ 1 – Faint | ☐ 2 – Easily detected | ☐ 3 – Noticeable from a distance |
| Color | ☐ | ☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other: | ☐ 1 – Faint colors in sample bottle | ☐ 2 – Clearly visible in sample bottle | ☐ 3 – Clearly visible in outfall flow |
| Turbidity | ☐ | See severity | ☐ 1 – Slight cloudiness | ☐ 2 – Cloudy | ☐ 3 – Opaque |
| Floatables -Does Not Include Trash!! | ☐ | ☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other: | ☐ 1 – Few/slight; origin not obvious | ☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen) | ☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials) |

**Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls**

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

| INDICATOR | CHECK if Present | DESCRIPTION | COMMENTS |
|---|---|---|---|
| Outfall Damage | ☐ | ☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion | |
| Deposits/Stains | ☐ | ☐ Oily ☐ Flow Line ☐ Paint ☐ Other: | |
| Abnormal Vegetation | ☐ | ☐ Excessive ☐ Inhibited | |
| Poor pool quality | ☐ | ☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other: | |
| Pipe benthic growth | ☐ | ☐ Brown ☐ Orange ☐ Green ☐ Other: | |

**Section 6: Overall Outfall Characterization**

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

**Section 7: Data Collection**

| | | | |
|---|---|---|---|
| 1. Sample for the lab? | ☐ Yes | ☒ No | |
| 2. If yes, collected from: | ☐ Flow | ☐ Pool | |
| 3. Intermittent flow trap set? | ☐ Yes | ☐ No | If Yes, type: ☐ OBM ☐ Caulk dam |

**Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?**

Ruekert-Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 1: Background Data

| | |
|---|---|
| Subwatershed: | Outfall ID: B |
| Today's date: 10-10-14 | Time (Military): 13:28 |
| Investigators: RON BITTNER. | Form completed by: RON BITTNER. |
| Temperature (°F): 53 | Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0 |
| Nearest Intersection / Location: EAST WOLF RUN. | |
| Camera: | Photo #s: OUTFALL ID # B |

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☐ Single Family
- ☐ Multi Family
- ☒ Commercial
- ☐ Open Space
- ☐ Institutional
- Other: _____
- Known Industries: _____

Notes (e.g., origin of outfall, if known):

## Section 2: Outfall Description

| LOCATION | MATERIAL | SHAPE | | DIMENSIONS (IN.) | SUBMERGED |
|---|---|---|---|---|---|
| ☒ Closed Pipe | ☐ RCP ☒ CMP<br>☐ PVC ☐ HDPE<br>☐ Steel<br>☐ Other: _____ | ☐ Circular<br>☒ Eliptical<br>☐ Box<br>☐ Other: _____ | ☒ Single<br>☐ Double<br>☐ Triple<br>☐ Other: _____ | Diameter/Dimensions: 36" x 60" | In Water: ☒ No ☐ Partially ☐ Fully<br>With Sediment: ☐ No ☒ Partially ☐ Fully |
| ☐ Open drainage | ☐ Concrete<br>☐ Earthen<br>☐ rip-rap<br>☐ Other: _____ | ☐ Trapezoid<br>☐ Parabolic<br>☐ Other: _____ | | Depth: _____<br>Top Width: _____<br>Bottom Width: _____ | |
| ☐ In-Stream | (applicable when collecting samples) | | | | |
| Flow Present? | ☐ Yes ☒ No *If No, Skip to Section 5* | | | | |
| Flow Description (If present) | ☐ Trickle ☐ Moderate ☐ Substantial | | | | |

## Section 3: Quantitative Characterization

| FIELD DATA FOR FLOWING OUTFALLS | | | | |
|---|---|---|---|---|
| PARAMETER | | RESULT | UNIT | EQUIPMENT |
| ☐ Flow #1 | Volume | | Liter | Bottle |
| | Time to fill | | Sec | |
| ☐ Flow #2 | Flow depth | | In | Tape measure |
| | Flow width | ____' ____" | Ft, In | Tape measure |
| | Measured length | ____' ____" | Ft, In | Tape measure |
| | Time of travel | | S | Stop watch |
| Temperature | | | °F | Thermometer |
| pH | | | pH Units | Test strip/Probe |
| Ammonia | | | mg/L | Test strip |

Ruekert·Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

**Section 4: Physical Indicators for Flowing Outfalls Only**

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

| INDICATOR | CHECK if Present | DESCRIPTION | RELATIVE SEVERITY INDEX (1-3) | | |
|---|---|---|---|---|---|
| Odor | ☐ | ☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other: | ☐ 1 – Faint | ☐ 2 – Easily detected | ☐ 3 – Noticeable from a distance |
| Color | ☐ | ☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other: | ☐ 1 – Faint colors in sample bottle | ☐ 2 – Clearly visible in sample bottle | ☐ 3 – Clearly visible in outfall flow |
| Turbidity | ☐ | See severity | ☐ 1 – Slight cloudiness | ☐ 2 – Cloudy | ☐ 3 – Opaque |
| Floatables -Does Not Include Trash!! | ☐ | ☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other: | ☐ 1 – Few/slight; origin not obvious | ☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen) | ☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials) |

**Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls**

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

| INDICATOR | CHECK if Present | DESCRIPTION | COMMENTS |
|---|---|---|---|
| Outfall Damage | ☐ | ☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion | |
| Deposits/Stains | ☐ | ☐ Oily ☐ Flow Line ☐ Paint ☐ Other: | |
| Abnormal Vegetation | ☒ | ☒ Excessive ☐ Inhibited | REMOVE BRUSH |
| Poor pool quality | ☐ | ☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other: | |
| Pipe benthic growth | ☐ | ☐ Brown ☐ Orange ☐ Green ☐ Other: | |

**Section 6: Overall Outfall Characterization**

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

**Section 7: Data Collection**

| | | | |
|---|---|---|---|
| 1. Sample for the lab? | ☐ Yes | ☒ No | |
| 2. If yes, collected from: | ☐ Flow | ☐ Pool | |
| 3. Intermittent flow trap set? | ☐ Yes | ☐ No | If Yes, type: ☐ OBM ☐ Caulk dam |

**Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?**

VEGITATION + BRUSH NEED TO CLEARED FROM OUTFALL

Ruekert-Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 1: Background Data

| | |
|---|---|
| Subwatershed: | Outfall ID: C |
| Today's date: 10-10-14 | Time (Military): |
| Investigators: RON BITTNER. | Form completed by: RON BITTNER. |
| Temperature (°F): 53 | Rainfall (in.): Last 24 hours: Last 48 hours: |
| Nearest Intersection / Location: EAST WOLF RUN + WALMART POND | |
| Camera: | Photo #s: |

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☐ Single Family
- ☐ Multi Family
- ☒ Commercial
- ☐ Open Space
- ☐ Institutional
- Other: _____
- Known Industries: _____

Notes (e.g., origin of outfall, if known):

## Section 2: Outfall Description

| LOCATION | MATERIAL | SHAPE | | DIMENSIONS (IN.) | SUBMERGED |
|---|---|---|---|---|---|
| ☒ Closed Pipe | ☐ RCP ☒ CMP<br>☐ PVC ☐ HDPE<br>☐ Steel<br>☐ Other: _____ | ☒ Circular<br>☐ Eliptical<br>☐ Box<br>☐ Other: _____ | ☒ Single<br>☐ Double<br>☐ Triple<br>☐ Other: _____ | Diameter/Dimensions: 54" | In Water: ☒ No ☐ Partially ☐ Fully<br>With Sediment: ☒ No ☐ Partially ☐ Fully |
| ☐ Open drainage | ☐ Concrete<br>☐ Earthen<br>☐ rip-rap.<br>☐ Other: _____ | ☐ Trapezoid<br>☐ Parabolic<br>☐ Other: _____ | | Depth: _____<br>Top Width: _____<br>Bottom Width: _____ | |
| ☐ In-Stream | (applicable when collecting samples) | | | | |
| Flow Present? | ☐ Yes ☒ No *If No, Skip to Section 5* | | | | |
| Flow Description (If present) | ☐ Trickle ☐ Moderate ☐ Substantial | | | | |

## Section 3: Quantitative Characterization

| FIELD DATA FOR FLOWING OUTFALLS | | | | |
|---|---|---|---|---|
| PARAMETER | | RESULT | UNIT | EQUIPMENT |
| ☐ Flow #1 | Volume | | Liter | Bottle |
| | Time to fill | | Sec | |
| ☐ Flow #2 | Flow depth | | In | Tape measure |
| | Flow width | ____' ____" | Ft, In | Tape measure |
| | Measured length | ____' ____" | Ft, In | Tape measure |
| | Time of travel | | S | Stop watch |
| Temperature | | | °F | Thermometer |
| pH | | | pH Units | Test strip/Probe |
| Ammonia | | | mg/L | Test strip |

Ruekert·Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

**Section 4: Physical Indicators for Flowing Outfalls Only**

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

| INDICATOR | CHECK if Present | DESCRIPTION | RELATIVE SEVERITY INDEX (1-3) | | |
|---|---|---|---|---|---|
| Odor | ☐ | ☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other: | ☐ 1 – Faint | ☐ 2 – Easily detected | ☐ 3 – Noticeable from a distance |
| Color | ☐ | ☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other: | ☐ 1 – Faint colors in sample bottle | ☐ 2 – Clearly visible in sample bottle | ☐ 3 – Clearly visible in outfall flow |
| Turbidity | ☐ | See severity | ☐ 1 – Slight cloudiness | ☐ 2 – Cloudy | ☐ 3 – Opaque |
| Floatables -Does Not Include Trash!! | ☐ | ☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other: | ☐ 1 – Few/slight; origin not obvious | ☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen) | ☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials) |

**Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls**

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

| INDICATOR | CHECK if Present | DESCRIPTION | COMMENTS |
|---|---|---|---|
| Outfall Damage | ☐ | ☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion | |
| Deposits/Stains | ☐ | ☐ Oily ☐ Flow Line ☐ Paint ☐ Other: | |
| Abnormal Vegetation | ☐ | ☐ Excessive ☐ Inhibited | |
| Poor pool quality | ☐ | ☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other: | |
| Pipe benthic growth | ☐ | ☐ Brown ☐ Orange ☐ Green ☐ Other: | |

**Section 6: Overall Outfall Characterization**

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

**Section 7: Data Collection**

| | | | |
|---|---|---|---|
| 1. Sample for the lab? | ☐ Yes | ☒ No | |
| 2. If yes, collected from: | ☐ Flow | ☐ Pool | |
| 3. Intermittent flow trap set? | ☐ Yes | ☐ No | If Yes, type: ☐ OBM ☐ Caulk dam |

**Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?**

Ruekert-Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 1: Background Data

| | |
|---|---|
| Subwatershed: | Outfall ID: D. |
| Today's date: 10-10-14 | Time (Military): 13:56. |
| Investigators: RON BITTNER. | Form completed by: RON BITTNER. |
| Temperature (°F): 53 | Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0 |
| Nearest Intersection / Location: EAST END OF EAST WOLF RUN. | |
| Camera: | Photo #s: |

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☐ Single Family
- ☐ Multi Family
- ☒ Commercial
- ☒ Open Space
- ☐ Institutional
- Other: _____
- Known Industries: _____

Notes (e.g., origin of outfall, if known):

OUTFALL FOR A VILLAGE OWNED RETENTION POND

## Section 2: Outfall Description

| LOCATION | MATERIAL | SHAPE | | DIMENSIONS (IN.) | SUBMERGED |
|---|---|---|---|---|---|
| ☒ Closed Pipe | ☐ RCP ☒ CMP<br>☐ PVC ☐ HDPE<br>☐ Steel<br>☐ Other: _____ | ☐ Circular<br>☐ Eliptical<br>☒ Box<br>☐ Other: _____ | ☒ Single<br>☐ Double<br>☐ Triple<br>☐ Other: _____ | Diameter/Dimensions: 48" x 36" | In Water: ☒ No ☐ Partially ☐ Fully<br>With Sediment: ☒ No ☐ Partially ☐ Fully |
| ☐ Open drainage | ☐ Concrete<br>☐ Earthen<br>☐ rip-rap<br>☐ Other: _____ | ☐ Trapezoid<br>☐ Parabolic<br>☐ Other: _____ | | Depth: _____<br>Top Width: _____<br>Bottom Width: _____ | |
| ☐ In-Stream | (applicable when collecting samples) | | | | |
| Flow Present? | ☒ Yes ☐ No *If No, Skip to Section 5* | | | | |
| Flow Description (If present) | ☒ Trickle ☐ Moderate ☐ Substantial | | | | |

## Section 3: Quantitative Characterization

| FIELD DATA FOR FLOWING OUTFALLS | | | | |
|---|---|---|---|---|
| PARAMETER | | RESULT | UNIT | EQUIPMENT |
| ☐ Flow #1 | Volume | | Liter | Bottle |
| | Time to fill | | Sec | |
| ☐ Flow #2 | Flow depth | | In | Tape measure |
| | Flow width | ____' ____" | Ft, In | Tape measure |
| | Measured length | ____' ____" | Ft, In | Tape measure |
| | Time of travel | | S | Stop watch |
| Temperature | | 57.9 | °F | Thermometer |
| pH | | 7.0 | pH Units | Test strip/Probe |
| Ammonia | | 0.25 PPM | ~~mg/L~~ PPM | Test strip |

Ruekert·Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

**Section 4: Physical Indicators for Flowing Outfalls Only**

Are Any Physical Indicators Present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

| INDICATOR | CHECK if Present | DESCRIPTION | RELATIVE SEVERITY INDEX (1-3) | | |
|---|---|---|---|---|---|
| Odor | ☐ | ☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other: | ☐ 1 – Faint | ☐ 2 – Easily detected | ☐ 3 – Noticeable from a distance |
| Color | ☐ | ☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other: | ☐ 1 – Faint colors in sample bottle | ☐ 2 – Clearly visible in sample bottle | ☐ 3 – Clearly visible in outfall flow |
| Turbidity | ☐ | See severity | ☐ 1 – Slight cloudiness | ☐ 2 – Cloudy | ☐ 3 – Opaque |
| Floatables -Does Not Include Trash!! | ☐ | ☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other: | ☐ 1 – Few/slight; origin not obvious | ☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen) | ☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials) |

**Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls**

Are physical indicators that are not related to flow present? ☐ Yes ☐ No *(If No, Skip to Section 6)*

| INDICATOR | CHECK if Present | DESCRIPTION | COMMENTS |
|---|---|---|---|
| Outfall Damage | ☐ | ☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion | |
| Deposits/Stains | ☐ | ☐ Oily ☐ Flow Line ☐ Paint ☐ Other: | |
| Abnormal Vegetation | ☐ | ☐ Excessive ☐ Inhibited | |
| Poor pool quality | ☐ | ☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other: | |
| Pipe benthic growth | ☒ | ☐ Brown ☐ Orange ☒ Green ☐ Other: | |

**Section 6: Overall Outfall Characterization**

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

**Section 7: Data Collection**

| | | | |
|---|---|---|---|
| 1. Sample for the lab? | ☐ Yes | ☒ No | |
| 2. If yes, collected from: | ☐ Flow | ☐ Pool | |
| 3. Intermittent flow trap set? | ☐ Yes | ☐ No | If Yes, type: ☐ OBM ☐ Caulk dam |

**Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?**

Ruekert-Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 1: Background Data

| | |
|---|---|
| Subwatershed: | Outfall ID: E. |
| Today's date: 10-23-14 | Time (Military): 14:37 |
| Investigators: RON BITTNER | Form completed by: RON BITTNER. |
| Temperature (°F): 57 | Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0 |
| Nearest Intersection / Location: EASTERN TRAIL AT PERKINS DR. | |
| Camera: | Photo #s: OUTFALL ID # E |

Land Use in Drainage Area (Check all that apply):

- [x] Industrial
- [x] Single Family
- [ ] Multi Family
- [ ] Commercial
- [x] Open Space
- [ ] Institutional
- Other: _____
- Known Industries: _____

Notes (e.g., origin of outfall, if known):

## Section 2: Outfall Description

| LOCATION | MATERIAL | SHAPE | | DIMENSIONS (IN.) | SUBMERGED |
|---|---|---|---|---|---|
| [x] Closed Pipe | [ ] RCP [x] CMP<br>[ ] PVC [ ] HDPE<br>[ ] Steel<br>[ ] Other: _____ | [x] Circular<br>[ ] Eliptical<br>[ ] Box<br>[ ] Other: _____ | [ ] Single<br>[x] Double<br>[ ] Triple<br>[ ] Other: _____ | Diameter/Dimensions: 22" | In Water: [ ] No [x] Partially [ ] Fully<br>With Sediment: [ ] No [x] Partially [ ] Fully |
| [ ] Open drainage | [ ] Concrete<br>[ ] Earthen<br>[ ] rip-rap.<br>[ ] Other: _____ | [ ] Trapezoid<br>[ ] Parabolic<br>[ ] Other: _____ | | Depth: _____<br>Top Width: _____<br>Bottom Width: _____ | |
| [ ] In-Stream | (applicable when collecting samples) | | | | |
| Flow Present? | [ ] Yes [x] No *If No, Skip to Section 5* | | | | |
| Flow Description (If present) | [ ] Trickle [ ] Moderate [ ] Substantial | | | | |

## Section 3: Quantitative Characterization

| FIELD DATA FOR FLOWING OUTFALLS | | | | |
|---|---|---|---|---|
| PARAMETER | | RESULT | UNIT | EQUIPMENT |
| [ ] Flow #1 | Volume | | Liter | Bottle |
| | Time to fill | | Sec | |
| [ ] Flow #2 | Flow depth | | In | Tape measure |
| | Flow width | ___' ___" | Ft, In | Tape measure |
| | Measured length | ___' ___" | Ft, In | Tape measure |
| | Time of travel | | S | Stop watch |
| Temperature | | | °F | Thermometer |
| pH | | | pH Units | Test strip/Probe |
| Ammonia | | | mg/L | Test strip |

Ruekert·Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

**Section 4: Physical Indicators for Flowing Outfalls Only**

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

| INDICATOR | CHECK if Present | DESCRIPTION | RELATIVE SEVERITY INDEX (1-3) | | |
|---|---|---|---|---|---|
| Odor | ☐ | ☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other: | ☐ 1 – Faint | ☐ 2 – Easily detected | ☐ 3 – Noticeable from a distance |
| Color | ☐ | ☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other: | ☐ 1 – Faint colors in sample bottle | ☐ 2 – Clearly visible in sample bottle | ☐ 3 – Clearly visible in outfall flow |
| Turbidity | ☐ | See severity | ☐ 1 – Slight cloudiness | ☐ 2 – Cloudy | ☐ 3 – Opaque |
| Floatables -Does Not Include Trash!! | ☐ | ☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other: | ☐ 1 – Few/slight; origin not obvious | ☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen) | ☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials) |

**Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls**

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

| INDICATOR | CHECK if Present | DESCRIPTION | COMMENTS |
|---|---|---|---|
| Outfall Damage | ☐ | ☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion | |
| Deposits/Stains | ☐ | ☐ Oily ☐ Flow Line ☐ Paint ☐ Other: | |
| Abnormal Vegetation | ☐ | ☐ Excessive ☐ Inhibited | |
| Poor pool quality | ☐ | ☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other: | |
| Pipe benthic growth | ☐ | ☐ Brown ☐ Orange ☐ Green ☐ Other: | |

**Section 6: Overall Outfall Characterization**

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

**Section 7: Data Collection**

| | | | |
|---|---|---|---|
| 1. Sample for the lab? | ☐ Yes | ☒ No | |
| 2. If yes, collected from: | ☐ Flow | ☐ Pool | |
| 3. Intermittent flow trap set? | ☐ Yes | ☐ No | If Yes, type: ☐ OBM ☐ Caulk dam |

**Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?**

REMOVE SEDIMENT AND BRUSH FROM AREA OF OUT FALL.
SCHEDULE SPRING OF 15

Ruekert-Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 1: Background Data

| | |
|---|---|
| Subwatershed: | Outfall ID: F |
| Today's date: 10-23-14 | Time (Military): 14:41 |
| Investigators: RON BITTNER. | Form completed by: RON BITTNER |
| Temperature (°F): 57 | Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0 |
| Nearest Intersection / Location: EASTERN TRAIL AT MALLARD CT. | |
| Camera: | Photo #s: |

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☒ Single Family
- ☐ Multi Family
- ☐ Commercial
- ☐ Open Space
- ☐ Institutional
- Other: _____
- Known Industries: _____

Notes (e.g., origin of outfall, if known):

## Section 2: Outfall Description

| LOCATION | MATERIAL | SHAPE | | DIMENSIONS (IN.) | SUBMERGED |
|---|---|---|---|---|---|
| ☒ Closed Pipe | ☐ RCP ☒ CMP<br>☐ PVC ☐ HDPE<br>☐ Steel<br>☐ Other: _____ | ☒ Circular<br>☐ Eliptical<br>☐ Box<br>☐ Other: _____ | ☒ Single<br>☐ Double<br>☐ Triple<br>☐ Other: _____ | Diameter/Dimensions: 30" | In Water: ☒ No ☐ Partially ☐ Fully<br>With Sediment: ☒ No ☐ Partially ☐ Fully |
| ☐ Open drainage | ☐ Concrete<br>☐ Earthen<br>☐ rip-rap<br>☐ Other: _____ | ☐ Trapezoid<br>☐ Parabolic<br>☐ Other: _____ | | Depth: _____<br>Top Width: _____<br>Bottom Width: _____ | |
| ☐ In-Stream | (applicable when collecting samples) | | | | |
| Flow Present? | ☐ Yes ☒ No *If No, Skip to Section 5* | | | | |
| Flow Description (If present) | ☐ Trickle ☐ Moderate ☐ Substantial | | | | |

## Section 3: Quantitative Characterization

| FIELD DATA FOR FLOWING OUTFALLS | | | | |
|---|---|---|---|---|
| PARAMETER | | RESULT | UNIT | EQUIPMENT |
| ☐ Flow #1 | Volume | | Liter | Bottle |
| | Time to fill | | Sec | |
| ☐ Flow #2 | Flow depth | | In | Tape measure |
| | Flow width | ____' ____" | Ft, In | Tape measure |
| | Measured length | ____' ____" | Ft, In | Tape measure |
| | Time of travel | | S | Stop watch |
| Temperature | | | °F | Thermometer |
| pH | | | pH Units | Test strip/Probe |
| Ammonia | | | mg/L | Test strip |

Ruekert·Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

| INDICATOR | CHECK if Present | DESCRIPTION | RELATIVE SEVERITY INDEX (1-3) | | |
|---|---|---|---|---|---|
| Odor | ☐ | ☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas<br>☐ Sulfide ☐ Other: | ☐ 1 – Faint | ☐ 2 – Easily detected | ☐ 3 – Noticeable from a distance |
| Color | ☐ | ☐ Clear ☐ Brown ☐ Gray ☐ Yellow<br>☐ Green ☐ Orange ☐ Red ☐ Other: | ☐ 1 – Faint colors in sample bottle | ☐ 2 – Clearly visible in sample bottle | ☐ 3 – Clearly visible in outfall flow |
| Turbidity | ☐ | See severity | ☐ 1 – Slight cloudiness | ☐ 2 – Cloudy | ☐ 3 – Opaque |
| Floatables -Does Not Include Trash!! | ☐ | ☐ Sewage (Toilet Paper, etc.) ☐ Suds<br>☐ Petroleum (oil sheen) ☐ Other: | ☐ 1 – Few/slight; origin not obvious | ☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen) | ☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials) |

## Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

| INDICATOR | CHECK if Present | DESCRIPTION | COMMENTS |
|---|---|---|---|
| Outfall Damage | ☐ | ☐ Spalling, Cracking or Chipping ☐ Peeling Paint<br>☐ Corrosion | |
| Deposits/Stains | ☐ | ☐ Oily ☐ Flow Line ☐ Paint ☐ Other: | |
| Abnormal Vegetation | ☐ | ☐ Excessive ☐ Inhibited | |
| Poor pool quality | ☐ | ☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen<br>☐ Suds ☐ Excessive Algae ☐ Other: | |
| Pipe benthic growth | ☐ | ☐ Brown ☐ Orange ☐ Green ☐ Other: | |

## Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

## Section 7: Data Collection

| | | | |
|---|---|---|---|
| 1. Sample for the lab? | ☐ Yes | ☒ No | |
| 2. If yes, collected from: | ☐ Flow | ☐ Pool | |
| 3. Intermittent flow trap set? | ☐ Yes | ☐ No | If Yes, type: ☐ OBM ☐ Caulk dam |

## Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Ruekert-Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 1: Background Data

| | |
|---|---|
| Subwatershed: | Outfall ID: G |
| Today's date: 10-23-14 | Time (Military): 14:47 |
| Investigators: RON BITTNER. | Form completed by: RON BITTNER. |
| Temperature (°F): 57 | Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0 |
| Nearest Intersection / Location: HOLZ PARKWAY AT PERKINS DR. | |
| Camera: | Photo #s: OUT FALL ID # G |

Land Use in Drainage Area (Check all that apply):

- [x] Industrial
- [ ] Single Family
- [ ] Multi Family
- [ ] Commercial
- [x] Open Space
- [ ] Institutional
- Other: _____
- Known Industries: _____

Notes (e.g., origin of outfall, if known): SMALL WETLAND LOCATED UP STREAM.

## Section 2: Outfall Description

| LOCATION | MATERIAL | SHAPE | | DIMENSIONS (IN.) | SUBMERGED |
|---|---|---|---|---|---|
| [x] Closed Pipe | [ ] RCP [x] CMP [ ] PVC [ ] HDPE [ ] Steel [ ] Other: _____ | [ ] Circular [x] Eliptical [ ] Box [ ] Other: _____ | [ ] Single [ ] Double [x] Triple [ ] Other: _____ | Diameter/Dimensions: 24" x 32" | In Water: [ ] No [x] Partially [ ] Fully<br>With Sediment: [ ] No [x] Partially [ ] Fully |
| [ ] Open drainage | [ ] Concrete [ ] Earthen [ ] rip-rap. [ ] Other: _____ | [ ] Trapezoid [ ] Parabolic [ ] Other: _____ | | Depth: _____<br>Top Width: _____<br>Bottom Width: _____ | |
| [ ] In-Stream | (applicable when collecting samples) | | | | |
| Flow Present? | [x] Yes [ ] No *If No, Skip to Section 5* | | | | |
| Flow Description (If present) | [x] Trickle [ ] Moderate [ ] Substantial | | | | |

## Section 3: Quantitative Characterization

| FIELD DATA FOR FLOWING OUTFALLS | | | | |
|---|---|---|---|---|
| PARAMETER | | RESULT | UNIT | EQUIPMENT |
| [ ] Flow #1 | Volume | | Liter | Bottle |
| | Time to fill | | Sec | |
| [ ] Flow #2 | Flow depth | | In | Tape measure |
| | Flow width | ____' ____" | Ft, In | Tape measure |
| | Measured length | ____' ____" | Ft, In | Tape measure |
| | Time of travel | | S | Stop watch |
| Temperature | | 51.3 | °F | Thermometer |
| pH | | 7.5 | pH Units | Test strip/Probe |
| Ammonia | | 0.25 | PPM. ~~mg/L~~ | Test strip |

Ruekert·Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

**Section 4: Physical Indicators for Flowing Outfalls Only**

Are Any Physical Indicators Present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

| INDICATOR | CHECK if Present | DESCRIPTION | RELATIVE SEVERITY INDEX (1-3) | | |
|---|---|---|---|---|---|
| Odor | ☐ | ☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other: | ☐ 1 – Faint | ☐ 2 – Easily detected | ☐ 3 – Noticeable from a distance |
| Color | ☐ | ☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other: | ☐ 1 – Faint colors in sample bottle | ☐ 2 – Clearly visible in sample bottle | ☐ 3 – Clearly visible in outfall flow |
| Turbidity | ☐ | See severity | ☐ 1 – Slight cloudiness | ☐ 2 – Cloudy | ☐ 3 – Opaque |
| Floatables -Does Not Include Trash!! | ☒ | ☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☒ Other: ALGAE | ☐ 1 – Few/slight; origin not obvious | ☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen) | ☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials) |

**Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls**

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

| INDICATOR | CHECK if Present | DESCRIPTION | COMMENTS |
|---|---|---|---|
| Outfall Damage | ☐ | ☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion | |
| Deposits/Stains | ☐ | ☐ Oily ☐ Flow Line ☐ Paint ☐ Other: | |
| Abnormal Vegetation | ☐ | ☐ Excessive ☒ Inhibited | |
| Poor pool quality | ☐ | ☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other: | |
| Pipe benthic growth | ☒ | ☐ Brown ☐ Orange ☒ Green ☐ Other: | |

**Section 6: Overall Outfall Characterization**

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

**Section 7: Data Collection**

| | | | |
|---|---|---|---|
| 1. Sample for the lab? | ☐ Yes | ☒ No | |
| 2. If yes, collected from: | ☐ Flow | ☐ Pool | |
| 3. Intermittent flow trap set? | ☐ Yes | ☐ No | If Yes, type: ☐ OBM ☐ Caulk dam |

**Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?**

Ruekert-Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 1: Background Data

| | |
|---|---|
| Subwatershed: | Outfall ID: H |
| Today's date: 11-3-14 | Time (Military): 14:05 |
| Investigators: RON BETTNER. | Form completed by: RON BETTNER. |
| Temperature (°F): 54 | Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0 |
| Nearest Intersection / Location: HOLZ PARKWAY 200 FT SOUTH OF PERKINS DR. | |
| Camera: | Photo #s: |

Land Use in Drainage Area (Check all that apply):

- [x] Industrial
- [x] Single Family
- [x] Multi Family
- [ ] Commercial
- [x] Open Space
- [ ] Institutional
- Other: _____
- Known Industries: _____

Notes (e.g.., origin of outfall, if known):

SMALL WETLAND DISCHARGES INTO THIS LINE

## Section 2: Outfall Description

| LOCATION | MATERIAL | SHAPE | | DIMENSIONS (IN.) | SUBMERGED |
|---|---|---|---|---|---|
| [x] Closed Pipe | [ ] RCP [x] CMP<br>[ ] PVC [ ] HDPE<br>[ ] Steel<br>[ ] Other: _____ | [ ] Circular<br>[x] Eliptical<br>[ ] Box<br>[ ] Other: _____ | [ ] Single<br>[ ] Double<br>[x] Triple<br>[ ] Other: _____ | Diameter/Dimensions:<br>66" x 40" | In Water:<br>[ ] No<br>[x] Partially<br>[ ] Fully<br>With Sediment:<br>[ ] No<br>[x] Partially<br>[ ] Fully |
| [ ] Open drainage | [ ] Concrete<br>[ ] Earthen<br>[ ] rip-rap<br>[ ] Other: _____ | [ ] Trapezoid<br>[ ] Parabolic<br>[ ] Other: _____ | | Depth: _____<br>Top Width: _____<br>Bottom Width: _____ | |
| [ ] In-Stream | (applicable when collecting samples) | | | | |
| Flow Present? | [x] Yes [ ] No *If No, Skip to Section 5* | | | | |
| Flow Description (If present) | [x] Trickle [ ] Moderate [ ] Substantial | | | | |

## Section 3: Quantitative Characterization

| FIELD DATA FOR FLOWING OUTFALLS | | | | |
|---|---|---|---|---|
| PARAMETER | | RESULT | UNIT | EQUIPMENT |
| [ ] Flow #1 | Volume | | Liter | Bottle |
| | Time to fill | | Sec | |
| [ ] Flow #2 | Flow depth | | In | Tape measure |
| | Flow width | ____' ____" | Ft, In | Tape measure |
| | Measured length | ____' ____" | Ft, In | Tape measure |
| | Time of travel | | S | Stop watch |
| Temperature | | 53.7 | °F | Thermometer |
| pH | | 7.5 | pH Units | Test strip/Probe |
| Ammonia | | 0.0 | PPM ~~mg/L~~ | Test strip |

Ruekert·Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

**Section 4: Physical Indicators for Flowing Outfalls Only**

Are Any Physical Indicators Present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

| INDICATOR | CHECK if Present | DESCRIPTION | RELATIVE SEVERITY INDEX (1-3) | | |
|---|---|---|---|---|---|
| Odor | ☐ | ☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other: | ☐ 1 – Faint | ☐ 2 – Easily detected | ☐ 3 – Noticeable from a distance |
| Color | ☐ | ☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other: | ☐ 1 – Faint colors in sample bottle | ☐ 2 – Clearly visible in sample bottle | ☐ 3 – Clearly visible in outfall flow |
| Turbidity | ☐ | See severity | ☐ 1 – Slight cloudiness | ☐ 2 – Cloudy | ☐ 3 – Opaque |
| Floatables -Does Not Include Trash!! | ☐ | ☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other: | ☐ 1 – Few/slight; origin not obvious | ☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen) | ☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials) |

**Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls**

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

| INDICATOR | CHECK if Present | DESCRIPTION | COMMENTS |
|---|---|---|---|
| Outfall Damage | ☐ | ☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion | |
| Deposits/Stains | ☐ | ☐ Oily ☐ Flow Line ☐ Paint ☐ Other: | |
| Abnormal Vegetation | ☒ | ☐ Excessive ☒ Inhibited | |
| Poor pool quality | ☐ | ☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other: | |
| Pipe benthic growth | ☐ | ☐ Brown ☐ Orange ☐ Green ☐ Other: | |

**Section 6: Overall Outfall Characterization**

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

**Section 7: Data Collection**

| | | | |
|---|---|---|---|
| 1. Sample for the lab? | ☐ Yes | ☒ No | |
| 2. If yes, collected from: | ☐ Flow | ☐ Pool | |
| 3. Intermittent flow trap set? | ☐ Yes | ☐ No | If Yes, type: ☐ OBM ☐ Caulk dam |

**Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?**

CATTAILS CREATING SMALL POOL AT OUTFALL

Ruekert-Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 1: Background Data

| | |
|---|---|
| Subwatershed: | Outfall ID: F |
| Today's date: 11-3-14 | Time (Military): 13:40 |
| Investigators: ROD BETTNER. | Form completed by: RON BETTNER |
| Temperature (°F): 54 | Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0 |
| Nearest Intersection / Location: MCKENZIE DR AT PERKINS DRIVE | |
| Camera: | Photo #s: |

Land Use in Drainage Area (Check all that apply):

- [x] Industrial
- [x] Single Family
- [ ] Multi Family
- [ ] Commercial
- [ ] Open Space
- [x] Institutional
- Other: _____
- Known Industries: _____

Notes (e.g., origin of outfall, if known):

WET LAND. NORTH OF CTY HWY ES DISCHARGES INTO THE LINE.

## Section 2: Outfall Description

| LOCATION | MATERIAL | SHAPE | | DIMENSIONS (IN.) | SUBMERGED |
|---|---|---|---|---|---|
| [x] Closed Pipe | [ ] RCP [x] CMP<br>[ ] PVC [ ] HDPE<br>[ ] Steel<br>[ ] Other: _____ | [ ] Circular<br>[x] Eliptical<br>[ ] Box<br>[ ] Other: _____ | [ ] Single<br>[ ] Double<br>[ ] Triple<br>[x] Other: 4 | Diameter/Dimensions:<br>70" X 30" | In Water:<br>[ ] No<br>[x] Partially<br>[ ] Fully<br>With Sediment:<br>[x] No<br>[ ] Partially<br>[ ] Fully |
| [ ] Open drainage | [ ] Concrete<br>[ ] Earthen<br>[ ] rip-rap.<br>[ ] Other: _____ | [ ] Trapezoid<br>[ ] Parabolic<br>[ ] Other: _____ | | Depth: _____<br>Top Width: _____<br>Bottom Width: _____ | |
| [ ] In-Stream | (applicable when collecting samples) | | | | |
| Flow Present? | [x] Yes [ ] No *If No, Skip to Section 5* | | | | |
| Flow Description (If present) | [x] Trickle [ ] Moderate [ ] Substantial | | | | |

## Section 3: Quantitative Characterization

| FIELD DATA FOR FLOWING OUTFALLS | | | | |
|---|---|---|---|---|
| PARAMETER | | RESULT | UNIT | EQUIPMENT |
| [ ] Flow #1 | Volume | | Liter | Bottle |
| | Time to fill | | Sec | |
| [ ] Flow #2 | Flow depth | | In | Tape measure |
| | Flow width | ____' ____" | Ft, In | Tape measure |
| | Measured length | ____' ____" | Ft, In | Tape measure |
| | Time of travel | | S | Stop watch |
| Temperature | | 53.9 | °F | Thermometer |
| pH | | 7.5 | pH Units | Test strip/Probe |
| Ammonia | | 0.0 | PPM ~~mg/L~~ | Test strip |

Ruekert·Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

**Section 4: Physical Indicators for Flowing Outfalls Only**

Are Any Physical Indicators Present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

| INDICATOR | CHECK if Present | DESCRIPTION | RELATIVE SEVERITY INDEX (1-3) | | |
|---|---|---|---|---|---|
| Odor | ☐ | ☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other: | ☐ 1 – Faint | ☐ 2 – Easily detected | ☐ 3 – Noticeable from a distance |
| Color | ☐ | ☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other: | ☐ 1 – Faint colors in sample bottle | ☐ 2 – Clearly visible in sample bottle | ☐ 3 – Clearly visible in outfall flow |
| Turbidity | ☐ | See severity | ☐ 1 – Slight cloudiness | ☐ 2 – Cloudy | ☐ 3 – Opaque |
| Floatables -Does Not Include Trash!! | ☐ | ☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other: | ☐ 1 – Few/slight; origin not obvious | ☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen) | ☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials) |

**Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls**

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

| INDICATOR | CHECK if Present | DESCRIPTION | COMMENTS |
|---|---|---|---|
| Outfall Damage | ☐ | ☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion | |
| Deposits/Stains | ☐ | ☐ Oily ☐ Flow Line ☐ Paint ☐ Other: | |
| Abnormal Vegetation | ☒ | ☐ Excessive ☒ Inhibited | |
| Poor pool quality | ☐ | ☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other: | |
| Pipe benthic growth | ☐ | ☐ Brown ☐ Orange ☐ Green ☐ Other: | |

**Section 6: Overall Outfall Characterization**

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

**Section 7: Data Collection**

| | | | |
|---|---|---|---|
| 1. Sample for the lab? | ☐ Yes | ☒ No | |
| 2. If yes, collected from: | ☐ Flow | ☐ Pool | |
| 3. Intermittent flow trap set? | ☐ Yes | ☐ No | If Yes, type: ☐ OBM ☐ Caulk dam |

**Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?**

CATTAIL ARE CREATING SMALL POOL AT OUTFALL

Ruekert-Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 1: Background Data

| | |
|---|---|
| Subwatershed: | Outfall ID: 5 |
| Today's date: 11-3-14 | Time (Military): 1334 |
| Investigators: ROD BETTNER. | Form completed by: RON BETTNER. |
| Temperature (°F): 54 | Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0 |
| Nearest Intersection / Location: CTY HWY ES (FOX ST.) + MCKENZIE DR. | |
| Camera: | Photo #s: |

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☐ Single Family
- ☐ Multi Family
- ☒ Commercial
- ☐ Open Space
- ☐ Institutional
- Other: _____
- Known Industries: _____

Notes (e.g., origin of outfall, if known):

## Section 2: Outfall Description

| LOCATION | MATERIAL | SHAPE | | DIMENSIONS (IN.) | SUBMERGED |
|---|---|---|---|---|---|
| ☒ Closed Pipe | ☐ RCP ☒ CMP<br>☐ PVC ☐ HDPE<br>☐ Steel<br>☐ Other: _____ | ☒ Circular<br>☐ Eliptical<br>☐ Box<br>☐ Other: _____ | ☒ Single<br>☐ Double<br>☐ Triple<br>☐ Other: _____ | Diameter/Dimensions: 42" | In Water: ☒ No ☐ Partially ☐ Fully<br>With Sediment: ☒ No ☐ Partially ☐ Fully |
| ☐ Open drainage | ☐ Concrete<br>☐ Earthen<br>☐ rip-rap<br>☐ Other: _____ | ☐ Trapezoid<br>☐ Parabolic<br>☐ Other: _____ | | Depth: _____<br>Top Width: _____<br>Bottom Width: _____ | |
| ☐ In-Stream | (applicable when collecting samples) | | | | |
| Flow Present? | ☐ Yes ☒ No *If No, Skip to Section 5* | | | | |
| Flow Description (If present) | ☐ Trickle ☐ Moderate ☐ Substantial | | | | |

## Section 3: Quantitative Characterization

| FIELD DATA FOR FLOWING OUTFALLS | | | | |
|---|---|---|---|---|
| PARAMETER | | RESULT | UNIT | EQUIPMENT |
| ☐ Flow #1 | Volume | | Liter | Bottle |
| | Time to fill | | Sec | |
| ☐ Flow #2 | Flow depth | | In | Tape measure |
| | Flow width | ____' ____" | Ft, In | Tape measure |
| | Measured length | ____' ____" | Ft, In | Tape measure |
| | Time of travel | | S | Stop watch |
| Temperature | | | °F | Thermometer |
| pH | | | pH Units | Test strip/Probe |
| Ammonia | | | mg/L | Test strip |

Ruekert·Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

**Section 4: Physical Indicators for Flowing Outfalls Only**

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

| INDICATOR | CHECK if Present | DESCRIPTION | RELATIVE SEVERITY INDEX (1-3) | | |
|---|---|---|---|---|---|
| Odor | ☐ | ☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other: | ☐ 1 – Faint | ☐ 2 – Easily detected | ☐ 3 – Noticeable from a distance |
| Color | ☐ | ☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other: | ☐ 1 – Faint colors in sample bottle | ☐ 2 – Clearly visible in sample bottle | ☐ 3 – Clearly visible in outfall flow |
| Turbidity | ☐ | See severity | ☐ 1 – Slight cloudiness | ☐ 2 – Cloudy | ☐ 3 – Opaque |
| Floatables -Does Not Include Trash!! | ☐ | ☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other: | ☐ 1 – Few/slight; origin not obvious | ☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen) | ☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials) |

**Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls**

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

| INDICATOR | CHECK if Present | DESCRIPTION | COMMENTS |
|---|---|---|---|
| Outfall Damage | ☐ | ☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion | |
| Deposits/Stains | ☐ | ☐ Oily ☐ Flow Line ☐ Paint ☐ Other: | |
| Abnormal Vegetation | ☐ | ☐ Excessive ☐ Inhibited | |
| Poor pool quality | ☐ | ☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other: | |
| Pipe benthic growth | ☐ | ☐ Brown ☐ Orange ☐ Green ☐ Other: | |

**Section 6: Overall Outfall Characterization**

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

**Section 7: Data Collection**

| | | | |
|---|---|---|---|
| 1. Sample for the lab? | ☐ Yes | ☒ No | |
| 2. If yes, collected from: | ☐ Flow | ☐ Pool | |
| 3. Intermittent flow trap set? | ☐ Yes | ☐ No | If Yes, type: ☐ OBM ☐ Caulk dam |

**Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?**

Ruekert-Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 1: Background Data

| | |
|---|---|
| Subwatershed: | Outfall ID: K |
| Today's date: 11-3-14 | Time (Military): 12:43 |
| Investigators: ROD BITTNER. | Form completed by: ROD BITTNER. |
| Temperature (°F): 51 | Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0 |
| Nearest Intersection / Location: CTY HWY NN 1000 FT EAST OF ST. HWY 83. | |
| Camera: | Photo #s: |

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☒ Single Family
- ☒ Multi Family
- ☒ Commercial
- ☒ Open Space
- ☒ Institutional
- Other: _____
- Known Industries: _____

Notes (e.g., origin of outfall, if known):

## Section 2: Outfall Description

| LOCATION | MATERIAL | SHAPE | | DIMENSIONS (IN.) | SUBMERGED |
|---|---|---|---|---|---|
| ☒ Closed Pipe | ☒ RCP ☒ CMP<br>☐ PVC ☐ HDPE<br>☐ Steel<br>☐ Other: _____ | ☒ Circular<br>☐ Eliptical<br>☐ Box<br>☐ Other: _____ | ☒ Single<br>☐ Double<br>☐ Triple<br>☐ Other: _____ | Diameter/Dimensions: 72" | In Water: ☒ No ☐ Partially ☐ Fully<br>With Sediment: ☒ No ☐ Partially ☐ Fully |
| ☐ Open drainage | ☐ Concrete<br>☐ Earthen<br>☐ rip-rap<br>☐ Other: _____ | ☐ Trapezoid<br>☐ Parabolic<br>☐ Other: _____ | | Depth: _____<br>Top Width: _____<br>Bottom Width: _____ | |
| ☐ In-Stream | (applicable when collecting samples) | | | | |
| Flow Present? | ☐ Yes ☒ No *If No, Skip to Section 5* | | | | |
| Flow Description (If present) | ☐ Trickle ☐ Moderate ☐ Substantial | | | | |

## Section 3: Quantitative Characterization

| FIELD DATA FOR FLOWING OUTFALLS | | | | |
|---|---|---|---|---|
| PARAMETER | | RESULT | UNIT | EQUIPMENT |
| ☐ Flow #1 | Volume | | Liter | Bottle |
| | Time to fill | | Sec | |
| ☐ Flow #2 | Flow depth | | In | Tape measure |
| | Flow width | ____' ____" | Ft, In | Tape measure |
| | Measured length | ____' ____" | Ft, In | Tape measure |
| | Time of travel | | S | Stop watch |
| Temperature | | | °F | Thermometer |
| pH | | | pH Units | Test strip/Probe |
| Ammonia | | | mg/L | Test strip |

Ruekert·Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

**Section 4: Physical Indicators for Flowing Outfalls Only**

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

| INDICATOR | CHECK if Present | DESCRIPTION | RELATIVE SEVERITY INDEX (1-3) | | |
|---|---|---|---|---|---|
| Odor | ☐ | ☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other: | ☐ 1 – Faint | ☐ 2 – Easily detected | ☐ 3 – Noticeable from a distance |
| Color | ☐ | ☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other: | ☐ 1 – Faint colors in sample bottle | ☐ 2 – Clearly visible in sample bottle | ☐ 3 – Clearly visible in outfall flow |
| Turbidity | ☐ | See severity | ☐ 1 – Slight cloudiness | ☐ 2 – Cloudy | ☐ 3 – Opaque |
| Floatables -Does Not Include Trash!! | ☐ | ☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other: | ☐ 1 – Few/slight; origin not obvious | ☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen) | ☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials) |

**Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls**

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

| INDICATOR | CHECK if Present | DESCRIPTION | COMMENTS |
|---|---|---|---|
| Outfall Damage | ☐ | ☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion | |
| Deposits/Stains | ☐ | ☐ Oily ☐ Flow Line ☐ Paint ☐ Other: | |
| Abnormal Vegetation | ☐ | ☐ Excessive ☐ Inhibited | |
| Poor pool quality | ☐ | ☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other: | |
| Pipe benthic growth | ☐ | ☐ Brown ☐ Orange ☐ Green ☐ Other: | |

**Section 6: Overall Outfall Characterization**

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

**Section 7: Data Collection**

| | | | |
|---|---|---|---|
| 1. Sample for the lab? | ☐ Yes | ☒ No | |
| 2. If yes, collected from: | ☐ Flow | ☐ Pool | |
| 3. Intermittent flow trap set? | ☐ Yes | ☐ No | If Yes, type: ☐ OBM ☐ Caulk dam |

**Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?**

Ruekert-Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 1: Background Data

| | |
|---|---|
| Subwatershed: | Outfall ID: L |
| Today's date: 11-3-14 | Time (Military): 13:26. |
| Investigators: ROD BITTNER. | Form completed by: ROD BITTNER. |
| Temperature (°F): 51 | Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0 |
| Nearest Intersection / Location: CTY HWY NN AND CTY HWY EE. | |
| Camera: | Photo #s: |

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☒ Single Family
- ☐ Multi Family
- ☐ Commercial
- ☒ Open Space
- ☒ Institutional
- Other: _____
- Known Industries: _____

Notes (e.g., origin of outfall, if known):

## Section 2: Outfall Description

| LOCATION | MATERIAL | SHAPE | | DIMENSIONS (IN.) | SUBMERGED |
|---|---|---|---|---|---|
| ☒ Closed Pipe | ☐ RCP ☒ CMP<br>☐ PVC ☐ HDPE<br>☐ Steel<br>☐ Other: _____ | ☒ Circular<br>☐ Eliptical<br>☐ Box<br>☐ Other: _____ | ☐ Single<br>☐ Double<br>☐ Triple<br>☒ Other: 4 | Diameter/Dimensions: 21" | In Water: ☒ No ☐ Partially ☐ Fully<br>With Sediment: ☒ No ☐ Partially ☐ Fully |
| ☐ Open drainage | ☐ Concrete<br>☐ Earthen<br>☐ rip-rap<br>☐ Other: _____ | ☐ Trapezoid<br>☐ Parabolic<br>☐ Other: _____ | | Depth: _____<br>Top Width: _____<br>Bottom Width: _____ | |
| ☐ In-Stream | (applicable when collecting samples) | | | | |
| Flow Present? | ☐ Yes ☒ No *If No, Skip to Section 5* | | | | |
| Flow Description (If present) | ☐ Trickle ☐ Moderate ☐ Substantial | | | | |

## Section 3: Quantitative Characterization

| FIELD DATA FOR FLOWING OUTFALLS | | | | |
|---|---|---|---|---|
| PARAMETER | | RESULT | UNIT | EQUIPMENT |
| ☐ Flow #1 | Volume | | Liter | Bottle |
| | Time to fill | | Sec | |
| ☐ Flow #2 | Flow depth | | In | Tape measure |
| | Flow width | ____' ____" | Ft, In | Tape measure |
| | Measured length | ____' ____" | Ft, In | Tape measure |
| | Time of travel | | S | Stop watch |
| Temperature | | | °F | Thermometer |
| pH | | | pH Units | Test strip/Probe |
| Ammonia | | | mg/L | Test strip |

Ruekert·Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

**Section 4: Physical Indicators for Flowing Outfalls Only**

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

| INDICATOR | CHECK if Present | DESCRIPTION | RELATIVE SEVERITY INDEX (1-3) | | |
|---|---|---|---|---|---|
| Odor | ☐ | ☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other: | ☐ 1 – Faint | ☐ 2 – Easily detected | ☐ 3 – Noticeable from a distance |
| Color | ☐ | ☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other: | ☐ 1 – Faint colors in sample bottle | ☐ 2 – Clearly visible in sample bottle | ☐ 3 – Clearly visible in outfall flow |
| Turbidity | ☐ | See severity | ☐ 1 – Slight cloudiness | ☐ 2 – Cloudy | ☐ 3 – Opaque |
| Floatables -Does Not Include Trash!! | ☐ | ☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other: | ☐ 1 – Few/slight; origin not obvious | ☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen) | ☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials) |

**Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls**

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

| INDICATOR | CHECK if Present | DESCRIPTION | COMMENTS |
|---|---|---|---|
| Outfall Damage | ☐ | ☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion | |
| Deposits/Stains | ☐ | ☐ Oily ☐ Flow Line ☐ Paint ☐ Other: | |
| Abnormal Vegetation | ☐ | ☐ Excessive ☐ Inhibited | |
| Poor pool quality | ☐ | ☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other: | |
| Pipe benthic growth | ☐ | ☐ Brown ☐ Orange ☐ Green ☐ Other: | |

**Section 6: Overall Outfall Characterization**

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

**Section 7: Data Collection**

| | | | |
|---|---|---|---|
| 1. Sample for the lab? | ☐ Yes | ☒ No | |
| 2. If yes, collected from: | ☐ Flow | ☐ Pool | |
| 3. Intermittent flow trap set? | ☐ Yes | ☐ No | If Yes, type: ☐ OBM ☐ Caulk dam |

**Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?**

Ruekert-Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 1: Background Data

| | |
|---|---|
| Subwatershed: | Outfall ID: M1 |
| Today's date: 11-3-14 | Time (Military): 1315 |
| Investigators: ROD BITTNER. | Form completed by: ROD BITTNER. |
| Temperature (°F): 51 | Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0 |
| Nearest Intersection / Location: 734 PINEHURST DR. | |
| Camera: | Photo #s: |

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☒ Single Family
- ☐ Multi Family
- ☐ Commercial
- ☒ Open Space
- ☐ Institutional
- Other: _____
- Known Industries: _____

Notes (e.g., origin of outfall, if known):

## Section 2: Outfall Description

| LOCATION | MATERIAL | SHAPE | | DIMENSIONS (IN.) | SUBMERGED |
|---|---|---|---|---|---|
| ☒ Closed Pipe | ☐ RCP ☒ CMP<br>☐ PVC ☐ HDPE<br>☐ Steel<br>☐ Other: _____ | ☒ Circular<br>☐ Eliptical<br>☐ Box<br>☐ Other: _____ | ☒ Single<br>☐ Double<br>☐ Triple<br>☐ Other: _____ | Diameter/Dimensions: 36" | In Water: ☒ No ☐ Partially ☐ Fully<br>With Sediment: ☒ No ☐ Partially ☐ Fully |
| ☐ Open drainage | ☐ Concrete<br>☐ Earthen<br>☐ rip-rap<br>☐ Other: _____ | ☐ Trapezoid<br>☐ Parabolic<br>☐ Other: _____ | | Depth: _____<br>Top Width: _____<br>Bottom Width: _____ | |
| ☐ In-Stream | (applicable when collecting samples) | | | | |
| Flow Present? | ☐ Yes ☒ No *If No, Skip to Section 5* | | | | |
| Flow Description (If present) | ☐ Trickle ☐ Moderate ☐ Substantial | | | | |

## Section 3: Quantitative Characterization

| FIELD DATA FOR FLOWING OUTFALLS | | | | |
|---|---|---|---|---|
| PARAMETER | | RESULT | UNIT | EQUIPMENT |
| ☐ Flow #1 | Volume | | Liter | Bottle |
| | Time to fill | | Sec | |
| ☐ Flow #2 | Flow depth | | In | Tape measure |
| | Flow width | ____' ____" | Ft, In | Tape measure |
| | Measured length | ____' ____" | Ft, In | Tape measure |
| | Time of travel | | S | Stop watch |
| Temperature | | | °F | Thermometer |
| pH | | | pH Units | Test strip/Probe |
| Ammonia | | | mg/L | Test strip |

Ruekert·Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

| INDICATOR | CHECK if Present | DESCRIPTION | RELATIVE SEVERITY INDEX (1-3) | | |
|---|---|---|---|---|---|
| Odor | ☐ | ☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other: | ☐ 1 – Faint | ☐ 2 – Easily detected | ☐ 3 – Noticeable from a distance |
| Color | ☐ | ☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other: | ☐ 1 – Faint colors in sample bottle | ☐ 2 – Clearly visible in sample bottle | ☐ 3 – Clearly visible in outfall flow |
| Turbidity | ☐ | See severity | ☐ 1 – Slight cloudiness | ☐ 2 – Cloudy | ☐ 3 – Opaque |
| Floatables -Does Not Include Trash!! | ☐ | ☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other: | ☐ 1 – Few/slight; origin not obvious | ☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen) | ☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials) |

## Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

| INDICATOR | CHECK if Present | DESCRIPTION | COMMENTS |
|---|---|---|---|
| Outfall Damage | ☐ | ☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion | |
| Deposits/Stains | ☐ | ☐ Oily ☐ Flow Line ☐ Paint ☐ Other: | |
| Abnormal Vegetation | ☐ | ☐ Excessive ☐ Inhibited | |
| Poor pool quality | ☐ | ☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other: | |
| Pipe benthic growth | ☐ | ☐ Brown ☐ Orange ☐ Green ☐ Other: | |

## Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

## Section 7: Data Collection

| | | | |
|---|---|---|---|
| 1. Sample for the lab? | ☐ Yes | ☒ No | |
| 2. If yes, collected from: | ☐ Flow | ☐ Pool | |
| 3. Intermittent flow trap set? | ☐ Yes | ☐ No | If Yes, type: ☐ OBM ☐ Caulk dam |

## Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Ruekert-Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 1: Background Data

| | |
|---|---|
| Subwatershed: | Outfall ID: N |
| Today's date: 11-3-14 | Time (Military): 13:09 |
| Investigators: ROD BITTNER. | Form completed by: RON BITTNER |
| Temperature (°F): 51 | Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0 |
| Nearest Intersection / Location: 517 VALHALLA DR. | |
| Camera: | Photo #s: |

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☒ Single Family
- ☐ Multi Family
- ☐ Commercial
- ☒ Open Space
- ☐ Institutional
- Other: _____
- Known Industries: _____

Notes (e.g.., origin of outfall, if known):

## Section 2: Outfall Description

| LOCATION | MATERIAL | SHAPE | | DIMENSIONS (IN.) | SUBMERGED |
|---|---|---|---|---|---|
| ☒ Closed Pipe | ☐ RCP ☒ CMP<br>☐ PVC ☐ HDPE<br>☐ Steel<br>☐ Other: _____ | ☒ Circular<br>☐ Eliptical<br>☐ Box<br>☐ Other: _____ | ☒ Single<br>☐ Double<br>☐ Triple<br>☐ Other: _____ | Diameter/Dimensions: 42" | In Water: ☒ No ☐ Partially ☐ Fully<br>With Sediment: ☒ No ☐ Partially ☐ Fully |
| ☐ Open drainage | ☐ Concrete<br>☐ Earthen<br>☐ rip-rap<br>☐ Other: _____ | ☐ Trapezoid<br>☐ Parabolic<br>☐ Other: _____ | | Depth: _____<br>Top Width: _____<br>Bottom Width: _____ | |
| ☐ In-Stream | (applicable when collecting samples) | | | | |
| Flow Present? | ☐ Yes ☒ No *If No, Skip to Section 5* | | | | |
| Flow Description (If present) | ☐ Trickle ☐ Moderate ☐ Substantial | | | | |

## Section 3: Quantitative Characterization

| FIELD DATA FOR FLOWING OUTFALLS | | | | |
|---|---|---|---|---|
| PARAMETER | | RESULT | UNIT | EQUIPMENT |
| ☐ Flow #1 | Volume | | Liter | Bottle |
| | Time to fill | | Sec | |
| ☐ Flow #2 | Flow depth | | In | Tape measure |
| | Flow width | ____' ____" | Ft, In | Tape measure |
| | Measured length | ____' ____" | Ft, In | Tape measure |
| | Time of travel | | S | Stop watch |
| Temperature | | | °F | Thermometer |
| pH | | | pH Units | Test strip/Probe |
| Ammonia | | | mg/L | Test strip |

Ruekert·Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

| INDICATOR | CHECK if Present | DESCRIPTION | RELATIVE SEVERITY INDEX (1-3) | | |
|---|---|---|---|---|---|
| Odor | ☐ | ☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other: | ☐ 1 – Faint | ☐ 2 – Easily detected | ☐ 3 – Noticeable from a distance |
| Color | ☐ | ☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other: | ☐ 1 – Faint colors in sample bottle | ☐ 2 – Clearly visible in sample bottle | ☐ 3 – Clearly visible in outfall flow |
| Turbidity | ☐ | See severity | ☐ 1 – Slight cloudiness | ☐ 2 – Cloudy | ☐ 3 – Opaque |
| Floatables -Does Not Include Trash!! | ☐ | ☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other: | ☐ 1 – Few/slight; origin not obvious | ☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen) | ☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials) |

## Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

| INDICATOR | CHECK if Present | DESCRIPTION | COMMENTS |
|---|---|---|---|
| Outfall Damage | ☐ | ☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion | |
| Deposits/Stains | ☐ | ☐ Oily ☐ Flow Line ☐ Paint ☐ Other: | |
| Abnormal Vegetation | ☐ | ☐ Excessive ☐ Inhibited | |
| Poor pool quality | ☐ | ☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other: | |
| Pipe benthic growth | ☐ | ☐ Brown ☐ Orange ☐ Green ☐ Other: | |

## Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

## Section 7: Data Collection

| | | | |
|---|---|---|---|
| 1. Sample for the lab? | ☐ Yes | ☒ No | |
| 2. If yes, collected from: | ☐ Flow | ☐ Pool | |
| 3. Intermittent flow trap set? | ☐ Yes | ☐ No | If Yes, type: ☐ OBM ☐ Caulk dam |

## Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Ruekert-Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 1: Background Data

| | |
|---|---|
| Subwatershed: | Outfall ID: 0 |
| Today's date: 11-3-14 | Time (Military): 1245 |
| Investigators: RON BITTNER | Form completed by: RON BITTNER |
| Temperature (°F): 49 | Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0 |
| Nearest Intersection / Location: 511 EAGLE LAKE AVE | |
| Camera: | Photo #s: |

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☒ Single Family
- ☐ Multi Family
- ☒ Commercial
- ☒ Open Space
- ☒ Institutional
- Other: _____
- Known Industries: _____

Notes (e.g., origin of outfall, if known):

## Section 2: Outfall Description

| LOCATION | MATERIAL | SHAPE | | DIMENSIONS (IN.) | SUBMERGED |
|---|---|---|---|---|---|
| ☒ Closed Pipe | ☐ RCP ☒ CMP<br>☐ PVC ☐ HDPE<br>☐ Steel<br>☐ Other: _____ | ☒ Circular<br>☐ Eliptical<br>☐ Box<br>☐ Other: _____ | ☒ Single<br>☐ Double<br>☐ Triple<br>☐ Other: _____ | Diameter/Dimensions: 36" | In Water: ☐ No ☒ Partially ☐ Fully<br>With Sediment: ☒ No ☐ Partially ☐ Fully |
| ☐ Open drainage | ☐ Concrete<br>☐ Earthen<br>☐ rip-rap<br>☐ Other: _____ | ☐ Trapezoid<br>☐ Parabolic<br>☐ Other: _____ | | Depth: _____<br>Top Width: _____<br>Bottom Width: _____ | |
| ☐ In-Stream | (applicable when collecting samples) | | | | |
| Flow Present? | ☐ Yes ☒ No *If No, Skip to Section 5* | | | | |
| Flow Description (If present) | ☐ Trickle ☐ Moderate ☐ Substantial | | | | |

## Section 3: Quantitative Characterization

| FIELD DATA FOR FLOWING OUTFALLS | | | | |
|---|---|---|---|---|
| PARAMETER | | RESULT | UNIT | EQUIPMENT |
| ☐ Flow #1 | Volume | | Liter | Bottle |
| | Time to fill | | Sec | |
| ☐ Flow #2 | Flow depth | | In | Tape measure |
| | Flow width | ____' ____" | Ft, In | Tape measure |
| | Measured length | ____' ____" | Ft, In | Tape measure |
| | Time of travel | | S | Stop watch |
| Temperature | | | °F | Thermometer |
| pH | | | pH Units | Test strip/Probe |
| Ammonia | | | mg/L | Test strip |

Ruekert·Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

**Section 4: Physical Indicators for Flowing Outfalls Only**

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

| INDICATOR | CHECK if Present | DESCRIPTION | RELATIVE SEVERITY INDEX (1-3) | | |
|---|---|---|---|---|---|
| Odor | ☐ | ☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other: | ☐ 1 – Faint | ☐ 2 – Easily detected | ☐ 3 – Noticeable from a distance |
| Color | ☐ | ☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other: | ☐ 1 – Faint colors in sample bottle | ☐ 2 – Clearly visible in sample bottle | ☐ 3 – Clearly visible in outfall flow |
| Turbidity | ☐ | See severity | ☐ 1 – Slight cloudiness | ☐ 2 – Cloudy | ☐ 3 – Opaque |
| Floatables -Does Not Include Trash!! | ☐ | ☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other: | ☐ 1 – Few/slight; origin not obvious | ☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen) | ☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials) |

**Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls**

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

| INDICATOR | CHECK if Present | DESCRIPTION | COMMENTS |
|---|---|---|---|
| Outfall Damage | ☐ | ☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion | |
| Deposits/Stains | ☐ | ☐ Oily ☐ Flow Line ☐ Paint ☐ Other: | |
| Abnormal Vegetation | ☐ | ☐ Excessive ☐ Inhibited | |
| Poor pool quality | ☐ | ☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other: | |
| Pipe benthic growth | ☐ | ☐ Brown ☐ Orange ☐ Green ☐ Other: | |

**Section 6: Overall Outfall Characterization**

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

**Section 7: Data Collection**

| | | | |
|---|---|---|---|
| 1. Sample for the lab? | ☐ Yes | ☒ No | |
| 2. If yes, collected from: | ☐ Flow | ☒ Pool | |
| 3. Intermittent flow trap set? | ☐ Yes | ☐ No | If Yes, type: ☐ OBM ☐ Caulk dam |

**Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?**

Ruekert-Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 1: Background Data

| | |
|---|---|
| Subwatershed: | Outfall ID: P |
| Today's date: 11-3-14 | Time (Military): 12:39 |
| Investigators: RON BITTNER | Form completed by: RON BITTNER. |
| Temperature (°F): 49 | Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0 |
| Nearest Intersection / Location: WEST END OF WAHL AVE. | |
| Camera: | Photo #s: |

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☒ Single Family
- ☐ Multi Family
- ☒ Commercial
- ☒ Open Space
- ☐ Institutional
- Other: _____
- Known Industries: _____

Notes (e.g.., origin of outfall, if known):

## Section 2: Outfall Description

| LOCATION | MATERIAL | SHAPE | | DIMENSIONS (IN.) | SUBMERGED |
|---|---|---|---|---|---|
| ☒ Closed Pipe | ☐ RCP ☒ CMP<br>☐ PVC ☐ HDPE<br>☐ Steel<br>☐ Other: _____ | ☒ Circular<br>☐ Eliptical<br>☐ Box<br>☐ Other: _____ | ☒ Single<br>☐ Double<br>☐ Triple<br>☐ Other: _____ | Diameter/Dimensions: 48" | In Water: ☐ No ☒ Partially ☐ Fully<br>With Sediment: ☒ No ☐ Partially ☐ Fully |
| ☐ Open drainage | ☐ Concrete<br>☐ Earthen<br>☐ rip-rap.<br>☐ Other: _____ | ☐ Trapezoid<br>☐ Parabolic<br>☐ Other: _____ | | Depth: _____<br>Top Width: _____<br>Bottom Width: _____ | |
| ☐ In-Stream | (applicable when collecting samples) | | | | |
| Flow Present? | ☐ Yes ☒ No *If No, Skip to Section 5* | | | | |
| Flow Description (If present) | ☐ Trickle ☐ Moderate ☐ Substantial | | | | |

## Section 3: Quantitative Characterization

| FIELD DATA FOR FLOWING OUTFALLS | | | | |
|---|---|---|---|---|
| PARAMETER | | RESULT | UNIT | EQUIPMENT |
| ☐ Flow #1 | Volume | | Liter | Bottle |
| | Time to fill | | Sec | |
| ☐ Flow #2 | Flow depth | | In | Tape measure |
| | Flow width | ____' ____" | Ft, In | Tape measure |
| | Measured length | ____' ____" | Ft, In | Tape measure |
| | Time of travel | | S | Stop watch |
| Temperature | | | °F | Thermometer |
| pH | | | pH Units | Test strip/Probe |
| Ammonia | | | mg/L | Test strip |

Ruekert·Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

**Section 4: Physical Indicators for Flowing Outfalls Only**

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

| INDICATOR | CHECK if Present | DESCRIPTION | RELATIVE SEVERITY INDEX (1-3) | | |
|---|---|---|---|---|---|
| Odor | ☐ | ☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other: | ☐ 1 – Faint | ☐ 2 – Easily detected | ☐ 3 – Noticeable from a distance |
| Color | ☐ | ☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other: | ☐ 1 – Faint colors in sample bottle | ☐ 2 – Clearly visible in sample bottle | ☐ 3 – Clearly visible in outfall flow |
| Turbidity | ☐ | See severity | ☐ 1 – Slight cloudiness | ☐ 2 – Cloudy | ☐ 3 – Opaque |
| Floatables -Does Not Include Trash!! | ☐ | ☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other: | ☐ 1 – Few/slight; origin not obvious | ☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen) | ☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials) |

**Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls**

Are physical indicators that are not related to flow present? ☐ Yes ☐ No *(If No, Skip to Section 6)*

| INDICATOR | CHECK if Present | DESCRIPTION | COMMENTS |
|---|---|---|---|
| Outfall Damage | ☐ | ☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion | |
| Deposits/Stains | ☐ | ☐ Oily ☐ Flow Line ☐ Paint ☐ Other: | |
| Abnormal Vegetation | ☐ | ☐ Excessive ☐ Inhibited | |
| Poor pool quality | ☐ | ☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other: | |
| Pipe benthic growth | ☒ | ☐ Brown ☐ Orange ☒ Green ☐ Other: | |

**Section 6: Overall Outfall Characterization**

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

**Section 7: Data Collection**

| | | | |
|---|---|---|---|
| 1. Sample for the lab? | ☐ Yes | ☒ No | |
| 2. If yes, collected from: | ☐ Flow | ☐ Pool | |
| 3. Intermittent flow trap set? | ☐ Yes | ☐ No | If Yes, type: ☐ OBM ☐ Caulk dam |

**Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?**

Ruekert-Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 1: Background Data

| | |
|---|---|
| Subwatershed: | Outfall ID: Q |
| Today's date: 11-3-14 | Time (Military): 11:29 |
| Investigators: ROD BITTNER. | Form completed by: ROD BITTNER. |
| Temperature (°F): 49 | Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0 |
| Nearest Intersection / Location: FRONT ST. AND JEFFERSON ST | |
| Camera: | Photo #s: |

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☐ Single Family
- ☐ Multi Family
- ☐ Commercial
- ☐ Open Space
- ☐ Institutional
- Other: _____
- Known Industries: _____

Notes (e.g., origin of outfall, if known):

## Section 2: Outfall Description

| LOCATION | MATERIAL | SHAPE | | DIMENSIONS (IN.) | SUBMERGED |
|---|---|---|---|---|---|
| ☒ Closed Pipe | ☐ RCP ☐ CMP<br>☐ PVC ☐ HDPE<br>☒ Steel<br>☐ Other: _____ | ☒ Circular<br>☐ Eliptical<br>☐ Box<br>☐ Other: _____ | ☐ Single<br>☒ Double<br>☐ Triple<br>☐ Other: _____ | Diameter/Dimensions: 16" | In Water: ☒ No ☐ Partially ☐ Fully<br>With Sediment: ☒ No ☐ Partially ☐ Fully |
| ☐ Open drainage | ☐ Concrete<br>☐ Earthen<br>☐ rip-rap.<br>☐ Other: _____ | ☐ Trapezoid<br>☐ Parabolic<br>☐ Other: _____ | | Depth: _____<br>Top Width: _____<br>Bottom Width: _____ | |
| ☐ In-Stream | (applicable when collecting samples) | | | | |
| Flow Present? | ☐ Yes ☒ No *If No, Skip to Section 5* | | | | |
| Flow Description (If present) | ☐ Trickle ☐ Moderate ☐ Substantial | | | | |

## Section 3: Quantitative Characterization

| FIELD DATA FOR FLOWING OUTFALLS | | | | |
|---|---|---|---|---|
| PARAMETER | | RESULT | UNIT | EQUIPMENT |
| ☐ Flow #1 | Volume | | Liter | Bottle |
| | Time to fill | | Sec | |
| ☐ Flow #2 | Flow depth | | In | Tape measure |
| | Flow width | ____' ____" | Ft, In | Tape measure |
| | Measured length | ____' ____" | Ft, In | Tape measure |
| | Time of travel | | S | Stop watch |
| Temperature | | | °F | Thermometer |
| pH | | | pH Units | Test strip/Probe |
| Ammonia | | | mg/L | Test strip |

Ruekert·Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

| INDICATOR | CHECK if Present | DESCRIPTION | RELATIVE SEVERITY INDEX (1-3) | | |
|---|---|---|---|---|---|
| Odor | ☐ | ☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other: | ☐ 1 – Faint | ☐ 2 – Easily detected | ☐ 3 – Noticeable from a distance |
| Color | ☐ | ☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other: | ☐ 1 – Faint colors in sample bottle | ☐ 2 – Clearly visible in sample bottle | ☐ 3 – Clearly visible in outfall flow |
| Turbidity | ☐ | See severity | ☐ 1 – Slight cloudiness | ☐ 2 – Cloudy | ☐ 3 – Opaque |
| Floatables -Does Not Include Trash!! | ☐ | ☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other: | ☐ 1 – Few/slight; origin not obvious | ☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen) | ☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials) |

## Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

| INDICATOR | CHECK if Present | DESCRIPTION | COMMENTS |
|---|---|---|---|
| Outfall Damage | ☐ | ☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion | |
| Deposits/Stains | ☐ | ☐ Oily ☐ Flow Line ☐ Paint ☐ Other: | |
| Abnormal Vegetation | ☐ | ☐ Excessive ☐ Inhibited | |
| Poor pool quality | ☐ | ☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other: | |
| Pipe benthic growth | ☐ | ☐ Brown ☐ Orange ☐ Green ☐ Other: | |

## Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

## Section 7: Data Collection

| | | | |
|---|---|---|---|
| 1. Sample for the lab? | ☐ Yes | ☒ No | |
| 2. If yes, collected from: | ☐ Flow | ☐ Pool | |
| 3. Intermittent flow trap set? | ☐ Yes | ☐ No | If Yes, type: ☐ OBM ☐ Caulk dam |

## Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Ruekert-Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 1: Background Data

| | |
|---|---|
| Subwatershed: | Outfall ID: R. |
| Today's date: 10-10-14 | Time (Military): 14:50 |
| Investigators: RON BITTNER. | Form completed by: RON BITTNER. |
| Temperature (°F): 56 | Rainfall (in.): Last 24 hours: Last 48 hours: |
| Nearest Intersection / Location: BAYVIEW CIRCLE AT BAY VIEW CT. | |
| Camera: | Photo #s: OUT FALL ID # R |

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☐ Single Family
- ☒ Multi Family
- ☐ Commercial
- ☐ Open Space
- ☐ Institutional
- Other: _____
- Known Industries: _____

Notes (e.g., origin of outfall, if known):
CONDO PROJECTS RETENTION POND DRAINS THROUGH THIS OUTFALL

## Section 2: Outfall Description

| LOCATION | MATERIAL | SHAPE | | DIMENSIONS (IN.) | SUBMERGED |
|---|---|---|---|---|---|
| ☒ Closed Pipe | ☐ RCP ☒ CMP<br>☐ PVC ☐ HDPE<br>☐ Steel<br>☐ Other: _____ | ☒ Circular<br>☐ Eliptical<br>☐ Box<br>☐ Other: _____ | ☒ Single<br>☐ Double<br>☐ Triple<br>☐ Other: _____ | Diameter/Dimensions: 42" | In Water: ☒ No ☐ Partially ☐ Fully<br>With Sediment: ☒ No ☐ Partially ☐ Fully |
| ☐ Open drainage | ☐ Concrete<br>☐ Earthen<br>☐ rip-rap.<br>☐ Other: _____ | ☐ Trapezoid<br>☐ Parabolic<br>☐ Other: _____ | | Depth: _____<br>Top Width: _____<br>Bottom Width: _____ | |
| ☐ In-Stream | (applicable when collecting samples) | | | | |
| Flow Present? | ☒ Yes ☐ No *If No, Skip to Section 5* | | | | |
| Flow Description (If present) | ☒ Trickle ☐ Moderate ☐ Substantial | | | | |

## Section 3: Quantitative Characterization

| FIELD DATA FOR FLOWING OUTFALLS | | | | |
|---|---|---|---|---|
| PARAMETER | | RESULT | UNIT | EQUIPMENT |
| ☐ Flow #1 | Volume | | Liter | Bottle |
| | Time to fill | | Sec | |
| ☐ Flow #2 | Flow depth | | In | Tape measure |
| | Flow width | ____' ____" | Ft, In | Tape measure |
| | Measured length | ____' ____" | Ft, In | Tape measure |
| | Time of travel | | S | Stop watch |
| Temperature | | 58.6 | °F | Thermometer |
| pH | | 7.0 | pH Units | Test strip/Probe |
| Ammonia | | 0.25 | ~~mg/L~~ PPM | Test strip |

Ruekert·Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

**Section 4: Physical Indicators for Flowing Outfalls Only**

Are Any Physical Indicators Present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 5)*

| INDICATOR | CHECK if Present | DESCRIPTION | RELATIVE SEVERITY INDEX (1-3) | | |
|---|---|---|---|---|---|
| Odor | ☐ | ☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other: | ☐ 1 – Faint | ☐ 2 – Easily detected | ☐ 3 – Noticeable from a distance |
| Color | ☐ | ☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other: | ☐ 1 – Faint colors in sample bottle | ☐ 2 – Clearly visible in sample bottle | ☐ 3 – Clearly visible in outfall flow |
| Turbidity | ☐ | See severity | ☐ 1 – Slight cloudiness | ☐ 2 – Cloudy | ☐ 3 – Opaque |
| Floatables -Does Not Include Trash!! | ☐ | ☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other: | ☐ 1 – Few/slight; origin not obvious | ☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen) | ☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials) |

**Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls**

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

| INDICATOR | CHECK if Present | DESCRIPTION | COMMENTS |
|---|---|---|---|
| Outfall Damage | ☐ | ☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion | |
| Deposits/Stains | ☐ | ☐ Oily ☐ Flow Line ☐ Paint ☐ Other: | |
| Abnormal Vegetation | ☐ | ☐ Excessive ☐ Inhibited | |
| Poor pool quality | ☐ | ☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other: | |
| Pipe benthic growth | ☒ | ☐ Brown ☐ Orange ☒ Green ☐ Other: | |

**Section 6: Overall Outfall Characterization**

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

**Section 7: Data Collection**

| | | | |
|---|---|---|---|
| 1. Sample for the lab? | ☐ Yes | ☒ No | |
| 2. If yes, collected from: | ☐ Flow | ☐ Pool | |
| 3. Intermittent flow trap set? | ☐ Yes | ☐ No | If Yes, type: ☐ OBM ☐ Caulk dam |

**Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?**

Ruekert-Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 1: Background Data

| | |
|---|---|
| Subwatershed: | Outfall ID: S |
| Today's date: 11-3-14 | Time (Military): 11:18 |
| Investigators: RON BITTNER | Form completed by: RON BITTNER |
| Temperature (°F): 49 | Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0 |
| Nearest Intersection / Location: CTY HWY ES + HONEYWELL RD. | |
| Camera: | Photo #s: |

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☒ Single Family
- ☒ Multi Family
- ☒ Commercial
- ☒ Open Space
- ☐ Institutional
- Other: _____
- Known Industries: _____

Notes (e.g., origin of outfall, if known):

## Section 2: Outfall Description

| LOCATION | MATERIAL | SHAPE | | DIMENSIONS (IN.) | SUBMERGED |
|---|---|---|---|---|---|
| ☒ Closed Pipe | ☐ RCP ☒ CMP<br>☐ PVC ☐ HDPE<br>☐ Steel<br>☐ Other: _____ | ☒ Circular<br>☐ Eliptical<br>☐ Box<br>☐ Other: _____ | ☒ Single<br>☐ Double<br>☐ Triple<br>☐ Other: _____ | Diameter/Dimensions: 36" | In Water: ☒ No ☐ Partially ☐ Fully<br>With Sediment: ☒ No ☐ Partially ☐ Fully |
| ☐ Open drainage | ☐ Concrete<br>☐ Earthen<br>☐ rip-rap<br>☐ Other: _____ | ☐ Trapezoid<br>☐ Parabolic<br>☐ Other: _____ | | Depth: _____<br>Top Width: _____<br>Bottom Width: _____ | |
| ☐ In-Stream | (applicable when collecting samples) | | | | |
| Flow Present? | ☐ Yes ☒ No *If No, Skip to Section 5* | | | | |
| Flow Description (If present) | ☐ Trickle ☐ Moderate ☐ Substantial | | | | |

## Section 3: Quantitative Characterization

| FIELD DATA FOR FLOWING OUTFALLS | | | | |
|---|---|---|---|---|
| PARAMETER | | RESULT | UNIT | EQUIPMENT |
| ☐ Flow #1 | Volume | | Liter | Bottle |
| | Time to fill | | Sec | |
| ☐ Flow #2 | Flow depth | | In | Tape measure |
| | Flow width | ____' ____" | Ft, In | Tape measure |
| | Measured length | ____' ____" | Ft, In | Tape measure |
| | Time of travel | | S | Stop watch |
| Temperature | | | °F | Thermometer |
| pH | | | pH Units | Test strip/Probe |
| Ammonia | | | mg/L | Test strip |

Ruekert·Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

| INDICATOR | CHECK if Present | DESCRIPTION | RELATIVE SEVERITY INDEX (1-3) | | |
|---|---|---|---|---|---|
| Odor | ☐ | ☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other: | ☐ 1 – Faint | ☐ 2 – Easily detected | ☐ 3 – Noticeable from a distance |
| Color | ☐ | ☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other: | ☐ 1 – Faint colors in sample bottle | ☐ 2 – Clearly visible in sample bottle | ☐ 3 – Clearly visible in outfall flow |
| Turbidity | ☐ | See severity | ☐ 1 – Slight cloudiness | ☐ 2 – Cloudy | ☐ 3 – Opaque |
| Floatables -Does Not Include Trash!! | ☐ | ☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other: | ☐ 1 – Few/slight; origin not obvious | ☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen) | ☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials) |

## Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

| INDICATOR | CHECK if Present | DESCRIPTION | COMMENTS |
|---|---|---|---|
| Outfall Damage | ☐ | ☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion | |
| Deposits/Stains | ☐ | ☐ Oily ☐ Flow Line ☐ Paint ☐ Other: | |
| Abnormal Vegetation | ☐ | ☐ Excessive ☐ Inhibited | |
| Poor pool quality | ☐ | ☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other: | |
| Pipe benthic growth | ☐ | ☐ Brown ☐ Orange ☐ Green ☐ Other: | |

## Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

## Section 7: Data Collection

| | | | |
|---|---|---|---|
| 1. Sample for the lab? | ☐ Yes | ☒ No | |
| 2. If yes, collected from: | ☐ Flow | ☐ Pool | |
| 3. Intermittent flow trap set? | ☐ Yes | ☐ No | If Yes, type: ☐ OBM ☐ Caulk dam |

## Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Ruekert-Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

## Section 1: Background Data

| | |
|---|---|
| Subwatershed: | Outfall ID: T |
| Today's date: 11-3-14 | Time (Military): 11:23 |
| Investigators: RON BITTNER. | Form completed by: RON BITTNER. |
| Temperature (°F): 49 | Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0 |
| Nearest Intersection / Location: CTY HWY ES + CTY HWY J | |
| Camera: | Photo #s: |

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☒ Single Family
- ☐ Multi Family
- ☒ Commercial
- ☒ Open Space
- ☐ Institutional
- Other: AGRICULTURE
- Known Industries: _____

Notes (e.g., origin of outfall, if known):

## Section 2: Outfall Description

| LOCATION | MATERIAL | SHAPE | | DIMENSIONS (IN.) | SUBMERGED |
|---|---|---|---|---|---|
| ☒ Closed Pipe | ☐ RCP ☐ CMP<br>☐ PVC ☐ HDPE<br>☒ Steel<br>☐ Other: _____ | ☐ Circular<br>☒ Eliptical<br>☐ Box<br>☐ Other: _____ | ☐ Single<br>☒ Double<br>☐ Triple<br>☐ Other: _____ | Diameter/Dimensions: 24" x 42" | In Water: ☒ No ☐ Partially ☐ Fully<br>With Sediment: ☐ No ☒ Partially ☐ Fully |
| ☐ Open drainage | ☐ Concrete<br>☐ Earthen<br>☐ rip-rap.<br>☐ Other: _____ | ☐ Trapezoid<br>☐ Parabolic<br>☐ Other: _____ | | Depth: _____<br>Top Width: _____<br>Bottom Width: _____ | |
| ☐ In-Stream | (applicable when collecting samples) | | | | |
| Flow Present? | ☐ Yes ☒ No *If No, Skip to Section 5* | | | | |
| Flow Description (If present) | ☐ Trickle ☐ Moderate ☐ Substantial | | | | |

## Section 3: Quantitative Characterization

| FIELD DATA FOR FLOWING OUTFALLS | | | | |
|---|---|---|---|---|
| PARAMETER | | RESULT | UNIT | EQUIPMENT |
| ☐ Flow #1 | Volume | | Liter | Bottle |
| | Time to fill | | Sec | |
| ☐ Flow #2 | Flow depth | | In | Tape measure |
| | Flow width | ____' ____" | Ft, In | Tape measure |
| | Measured length | ____' ____" | Ft, In | Tape measure |
| | Time of travel | | S | Stop watch |
| Temperature | | | °F | Thermometer |
| pH | | | pH Units | Test strip/Probe |
| Ammonia | | | mg/L | Test strip |

Ruekert·Mielke
engineering solutions for a working world

# VILLAGE OF MUKWONAGO ILLICIT DISCHARGE FIELD SCREENING SHEET

**Section 4: Physical Indicators for Flowing Outfalls Only**

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

| INDICATOR | CHECK if Present | DESCRIPTION | RELATIVE SEVERITY INDEX (1-3) | | |
|---|---|---|---|---|---|
| Odor | ☐ | ☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other: | ☐ 1 – Faint | ☐ 2 – Easily detected | ☐ 3 – Noticeable from a distance |
| Color | ☐ | ☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other: | ☐ 1 – Faint colors in sample bottle | ☐ 2 – Clearly visible in sample bottle | ☐ 3 – Clearly visible in outfall flow |
| Turbidity | ☐ | See severity | ☐ 1 – Slight cloudiness | ☐ 2 – Cloudy | ☐ 3 – Opaque |
| Floatables -Does Not Include Trash!! | ☐ | ☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other: | ☐ 1 – Few/slight; origin not obvious | ☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen) | ☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials) |

**Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls**

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

| INDICATOR | CHECK if Present | DESCRIPTION | COMMENTS |
|---|---|---|---|
| Outfall Damage | ☐ | ☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion | |
| Deposits/Stains | ☐ | ☐ Oily ☐ Flow Line ☐ Paint ☐ Other: | |
| Abnormal Vegetation | ☐ | ☐ Excessive ☐ Inhibited | |
| Poor pool quality | ☐ | ☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other: | |
| Pipe benthic growth | ☐ | ☐ Brown ☐ Orange ☐ Green ☐ Other: | |

**Section 6: Overall Outfall Characterization**

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

**Section 7: Data Collection**

| | | | |
|---|---|---|---|
| 1. Sample for the lab? | ☐ Yes | ☒ No | |
| 2. If yes, collected from: | ☐ Flow | ☐ Pool | |
| 3. Intermittent flow trap set? | ☐ Yes | ☐ No | If Yes, type: ☐ OBM ☐ Caulk dam |

**Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?**

Ruekert-Mielke
engineering solutions for a working world

Outfall ID # B  East Wolf Run  (West of YMCA)

Outfall ID #E  Eastern Trail at Perkins Dr.

Outfall ID # G  Holz Parkway & Perkins Dr.

Outfall ID # R  Bayview Circle @ Bayview Court