Robert E. Lee & Associates, Inc.

Engineering | Environmental | Surveying | Ecological

ILLICIT DISCHARGE DETECTION & ELIMINATION PROGRAM

2023 Field Screening Program

Prepared for:
City of Marinette
December 15, 2023

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December 15, 2023

Mr. Brian Miller
CITY OF MARINETTE
1905 Hall Avenue
Marinette, WI 54143

RE: 2023 IDDE Program – 2023 Field Screening Program

Dear Mr. Miller:

Attached for your information is the 2023 Illicit Discharge Detection & Elimination Program – 2023 Field Screening information for the City of Marinette.

If you have any questions or comments on this information, please contact me at 920-662-9641 or capplekamp@releeinc.com.

Sincerely,

ROBERT E. LEE & ASSOCIATES, INC.

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Environmental Compliance Department

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Environmental Compliance Manager

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INTRODUCTION

As a part of the City of Marinette's Illicit Discharge Field Screening Program, seven (7) major outfalls, twelve (12) minor outfalls, and eleven (11) outfall resamples within the City's jurisdiction were screened in 2023. For a description of the City of Marinette's Illicit Discharge Field Screening Program, please refer to the 'City of Marinette Illicit Discharge Detection & Elimination Program – Summary of Initial Field Screening', December 15, 2009. The December 15, 2009, report contains a comprehensive description of the program and information on how the program complies with the City's WPDES permit from the Wisconsin Department of Natural Resources (WDNR). The City's screening program also utilizes current maps depicting the City's outfalls.

SUMMARY OF ILLICIT DISCHARGE PROGRAM'S MEASURABLE GOALS

Chapter 5 of the City of Marinette's Storm Water Management Plan (June 2008) identifies measurable goals for the City's Illicit Discharge Detection and Elimination Program. The measurable goals and associated results from the 2023 Field Screening Program components are as follows:

- Twenty-nine (29) MS4 outfalls were screened.
- Three (3) outfalls were rescreened in 2023, due to possible illicit discharge indicators observed or tested in 2022. These were characterized as unlikely to have an illicit discharge in 2023 due to no flow or water quality readings below the action limit.
- Nine (9) outfalls were characterized as a possible, likely, or obvious illicit discharge. Eight of these outfalls were rescreened in 2023, due to possible illicit discharge indicators observed or tested in 2022.
- Seventeen (17) outfalls had no flow and were characterized as unlikely to have an illicit discharge.
- Zero (0) illicit discharge notifications were issued to an adjacent municipality.
- Zero (0) educational materials were distributed to the public during the screenings, as Robert E. Lee & Associates, Inc (REL) personnel did not encounter members of the public during the screenings.

DATA COLLECTION AND CRITERIA

Flow & Chemical Indicators

If flow is present at the outfall, screening personnel will describe the flow (trickle, moderate, or substantial), estimate the flow (in gallons per minute), measure the temperature (in degrees Celsius) and turbidity (>20 NTU= turbid).

Flowing outfalls are tested for the following chemical indicators: pH, ammonia, specific conductance, total chlorine, total copper, total phenol, and detergents. Table 1 provides Action Levels (AL) for chemical indicators and detection limits for the sampling equipment. The action levels are stated in Program Guidance #3800-2012-01, with the exception of phenols, chlorine, and conductivity. The detection limit of the equipment is used as the Action Level for chlorine and phenols. 2,000 µS/cm is used as the Action Level for conductivity, since most storm water, groundwater, and potable water in the area is below this number. If the chemical indicators at the

outfall are above the Action Level, screening personnel will notify the City and follow the tracking and
response protocol outlined in the Summary of Initial Field Screening Report.

Physical Indicators and Sensory Parameters

Table 1 - Chemical Indicator Action Levels and Equipment Detection Levels

Indicator	Action Levels	Equipment Detection Level
Ammonia	0.1 mg/l	0.1 mg/l
Specific Conductance	2,000 µS /cm	0 µS/cm
Detergents	0.5 mg/l	0.1 mg/l
pH	Less than 6 or greater than 9	0.01 SU
Phenol	0.1 mg/l	0.1 mg/l
Total Chlorine	0.1 mg/l	0.1 mg/l
Total Copper	0.1 mg/l	0.1 mg/l

In addition to collecting flow and chemical indicators, screening personnel perform sensory observations for the following physical indicators found at flowing outfalls: odor, color, turbidity, temperature, and floatables. Personnel provide a description of these indicators by selecting typical observations in water quality or describing the observations with the "other" option in the individual screening reports in Appendix A. Table 2 summarizes the severity levels. The report descriptions of the severity levels provided in Table 2 are shown in the individual screening reports.

Table 2 - Physical Indicators Related to the Flow – Severity Levels

Physical Indicator	Severity Level	Screening Description	Report Description
Odor	1	Faint	Faint
	2	Easily Detected	Moderate
	3	Noticeable from a distance	Severe
Color	1	Faint colors in sample bottle	Faint
	2	Clearly visible in sample bottle	Moderate
	3	Clearly visible in outfall flow	Severe
Floatables	1	Few/slight; origin not obvious	Faint
	2	Some; indications of origin	Moderate
	3	Some; origin clear	Severe

Turbidity is measured by an optical sensor in a sample of the water from the flowing outfall. This reading is in Nephelometric Turbidity Units (NTU). Readings lower than 20 NTU are considered "not turbid", where readings higher than 20 NTU are considered "turbid".

Physical Indicators Not Related to the Flow

Screening personnel also perform sensory observations for the following physical indicators that can be found in both flowing and non-flowing outfalls: outfall damage, deposits/stains, abnormal vegetation, poor pool quality, and benthic growth. Personnel provide a description of these

indicators and additional comments as needed. It should be noted that physical indicators in this section may not reveal current illicit discharges.

Potential for Illicit Discharge Designation

Once all tests for indicators of illicit discharge are complete, outfalls are assigned a "Potential for Illicit Discharge" designation. The outfall designations are summarized in Table 3.

Table 3 - Potential for Illicit Discharge Designations

Designation	Description
Unlikely	Flowing or non-flowing outfalls with the chemical indicator(s) at or below the action levels and fewer than two physical indicators of an illicit discharge.
Possible	Flowing or non-flowing outfalls with presence of chemical indicator(s) above action levels and/or two or more physical indicators.
Likely	Flowing outfalls with chemical indicator(s) above action levels and high severity (level 3) on one or more physical indicators.
Obvious	Outfalls where there is an illicit discharge that does not require sample collection for confirmation.

ILLICIT DISCHARGE & FLOW OBSERVATIONS

Flow & Chemical Indicators

Flow was observed at twelve (12) outfalls (D1c-2, D1j-1, D1j-6, D1k-1, D1k-4, D1m3(1)-2, M2f-1, M2i-1, M2j-1, M2n-1, M2o-1, and S1d-2).

Nine (9) of the twelve (12) above outfalls showed apparent chemical and/or physical indicators of a possible illicit discharge (M2j-1, D1j-6, D1m3(1)-2, M2f-1, M2i-1, M2o-1, S1d-2, D1j-1, and D1c-2). The remaining seventeen (17) outfalls were determined to have no active flow at the time of the dry weather field screening.

Physical Indicators Not Related to the Flow

Three (3) outfalls showed physical indicators of an illicit discharge not related to the flow (D1j-1, M2i-1, M2j-1).

Potential for Illicit Discharge Designations

Per the descriptions provided for the Potential for Illicit Discharge Designations in Table 3, twenty (20) outfalls were characterized as "Unlikely" for illicit discharge. Nine (9) outfalls showed apparent chemical and/or physical indicators of a potential illicit discharge (M2j-1, D1j-6, D1m3(1)-2, M2f-1, M2i-1, M2o-1, S1d-2, D1j-1, and D1c-2). Three (3) outfalls showed physical indicators of an illicit discharge not related to the flow (D1j-1, M2i-1, M2j-1).

NON-ILLICIT DISCHARGE OBSERVATIONS

In addition to determining whether an outfall has a possible illicit discharge, screening personnel observe and note non-illicit discharge concerns, such as graffiti, damage to the headwall/endwall structure, litter, etc. Screening personnel also note whether an outfall has been modified/rehabilitated. Three (3) outfalls were noted with non-illicit discharge observations and are summarized below.

D1i-1 was partially submerged at the outfall and was determined to have no flow present; however, with the outfall being towards the bottom of a hill, the culvert was covered with a lot of vegetation.

D1k3-1 was dry at the outfall, but was overgrown with cattails and other vegetation, which heavily limited visibility and accessibility to the culvert.

M2c-1 was submerged at the outfall as well as the first and second upstream manhole. The third upstream manhole was screened, and was determined to have no flow present; however, the standing water had a significant amount of trash in the manhole.

ALTERNATE OUTFALL LOCATION SCREENING

If an outfall is submerged, dry, has very limited flow, or is considered inaccessible by the screening personnel, the outfall may be screened at an alternate location, such as an upslope manhole. See screening worksheet included in Appendix B for comments on actual screening location of the outfall.

PHYSICAL INDICATORS RELATED TO THE FLOW

Five (5) outfalls showed physical indicators of an illicit discharge related to the flow (D1j-1, M2f-1, M2i-1, M2j-1, S1d-2).

D1j-1 was screened at the east side of the 66" culvert and had a strong golden yellow color.

M2f-1 was screen at the upstream manhole and had a strong odor, yellow color, and floatables.

M2i-1 was screened at the upstream manhole and had a slight petroleum odor.

M2j-1 was screened at the upstream manhole and had a moderate petroleum odor.

S1d-2 was screened at the west ditch and had a strong odor, yellow color, and floatables.

SUMMARY OF POTENTIAL ILLICIT DISCHARGE OUTFALLS

Twelve (12) outfalls with current or past indicators of a potential illicit discharge were screened in 2023. Three (3) current or past flowing outfalls are given an unlikely illicit discharge designation,

while the remaining nine (9) are given a possible illicit discharge designation. They are summarized as follows and previous results, with the exception of D1j-1, are listed first in *blue italics*:

Outfalls With An Unlikely Illicit Discharge Designation

1. **E2-1** *was screened in August 2022 at the south end of the culvert and in-field tests detected ammonia levels at 2.00 mg/L, which is above the action level of 0.1 mg/L. The outfall was rescreened in October 2022 for field parameters and a water sample was collected to be analyzed for ammonia to confirm the in-field test. This sample was submitted to Pace Analytical Services for laboratory analysis. The concentration of ammonia was reported at 0.23J mg/L.*

The outfall was rescreened in August 2023. No flow was present at the outfall location. This outfall will be screened annually for ammonia and field parameters ending in 2025, if detections stay at or below the action levels each year. Further investigation will be discussed with the City after the 2024 sampling if the chemical indicators are measured again.

2. **E2-5** *was screened in August 2022 at the ditch on the southeast of the culvert (E2-1) where in-field tests detected ammonia levels at 0.8 mg/L, which are above the action level of 0.1 mg/L. The outfall was rescreened in October 2022 for field parameters and a water sample was collected to be analyzed for ammonia to confirm the in-field test. This sample was submitted to Pace Analytical Services for laboratory analysis. There was no detection of ammonia above the detection limit of 0.14 mg/L.*

The outfall was rescreened in August 2023. No flow was present at the outfall location. This outfall will continue to be screened annually for ammonia and field parameters ending in 2025 if detections stay at or below the action levels each year. Further investigation will be discussed with the City after the 2024 sampling if the chemical indicators are measured again.

3. **M2n-1** *was screened in August 2022 from the outfall. The chemical field test performed, and water quality readings obtained, recorded no detections above the action levels; however, a faint petroleum odor was noted, and a faint sheen was noted in the pool of the outfall. In October 2022, the outfall was rescreened for water quality readings and had no noticeable odor. A water sample was collected from the outfall and analyzed for VOCs. This sample was submitted to Pace Analytical Services for laboratory analysis. The laboratory analysis resulted in no detection of VOCs from the outfall.*

In 2023, the outfall was rescreened, recorded, and no detections above the action levels nor odor was observed. Due to the petroleum odor noted in 2022, the outfall will be rescreened annually until 2025. Further investigation will be discussed with the City after the 2024 sampling if the water quality readings are higher than 2022's results or a petroleum odor is detected again.

Outfalls with a Possible Illicit Discharge Designation

1. **M2j-1** *was screened in 2021 and recorded a conductivity of 2,339 µS/cm which is above the action level of 2,000 µS/cm. Due to this action level exceedance, the outfall was rescreened in August of 2022, at the upstream manhole at Hattie Court and Stephenson Street, due to*

the outfall being submerged. During this rescreen, the conductivity was measured at 2,684 µS/cm, and a petroleum odor was noted. To further identify the source of the elevated conductivity and petroleum odor, with the assistance of the City, the storm line was tracked and was rescreened in October 2022 at the furthest upstream manhole on Court Street. Based on a review of the Wisconsin Department of Natural Resources (WDNR) RR Sites Map, this manhole is located adjacent to a closed Leaking Underground Storage Tank (LUST) site located at 2002 Hall Avenue. The conductivity of the water flowing in this manhole was 2,625 µS/cm, and a strong petroleum odor was noted coming from the manhole. A water sample was collected from the manhole and analyzed for volatile organic compounds (VOC). This sample was submitted to Pace Analytical Services for laboratory analysis. The two detections of VOCs showed concentrations of 1.2 µg/L of 1,2,4-Trimethylbenzene, and 0.86J µg/L of Ethylbenzene. Despite the probable source being determined, it was recommended that this outfall be rescreened annually for conductivity and sampled for VOCs at the furthest downstream, unsubmerged manhole ending in 2025 if no future detections are observed.

The outfall was rescreened in August 2023 and recorded conductivity at 2,223 µS/cm and ammonia at 0.5 mg/L. Field screening personnel also detected a moderate petroleum odor and yellow color of the sample. Due to the yellow color of the storm water sample, and the yellow comparator test colors, the ammonia action level exceedance is not expected to be representative of actual chemical concentrations of ammonia. Based on the slightly lower conductivity reading and other similar water quality readings in 2023, REL with concurrence with the City decided to not collect a VOC sample. Further investigation will be discussed with the City after the 2024 sampling, if the chemical indicator concentrations increase or are measured again. This outfall will be screened annually for the next three years to evaluate the storm water quality at this outfall ending in 2026, if detections stay at or below the action levels each year.

2. **D1j-6** *was screened from the upstream manhole due to inaccessibility of the actual outfall in August 2022. The chemical field test performed measured conductivity of 3,070 µS/cm, total chlorine at 1.0 mg/L, phenols at 0.4 mg/L, and ammonia at 0.6 mg/L, which are all above the associated action levels. In October 2022, with the assistance of the City, several upstream manholes were screened for conductivity in an attempt to quickly identify a source of the high conductivity. The water in the upstream manholes was significantly lower in conductivity (less than 100 µS/cm) and well below the action levels and therefore is not likely to be a direct source of the high levels measured in August. The original manhole was rescreened, but no flow was present and couldn't be sampled and therefore no source was determined.*

The results of the 2023 screening measured conductivity of 1691 µS/cm, total chlorine at 0.3 mg/L, phenols at 0.2 mg/L, and ammonia at 0.4 mg/L which are all above the associated action levels however are lower than the initial August 2022 screening. This manhole representing D1j-6 will be screened annually for the next three years to evaluate the storm water quality at this manhole ending in 2026 if detections stay at or below the action levels each year. Further investigation will be discussed with the City after the 2024 screening if the chemical indicator concentrations increase or are measured again.

3. **D1m3(1)-2** *was screened in 2022 directly from the culvert and recorded a conductivity of 2,417 µS/cm which is above the action level of 2,000 µS/cm and a detergent concentration of 0.5 mg/L which is at the action level.*

This outfall was rescreened in August 2023 and recorded a conductivity of 3,098 µS/cm and a detergent concentration of 0.75 mg/L, which are both above the associated action levels. After discussion with the City, the configuration of the storm system and the large commercial area with large parking lots in the watershed would mean a specific illicit discharge source would not be certain. This outfall will be screened annually for the next three years to evaluate the storm water quality at this outfall and determine the trend of the concentrations ending in 2026 if detections stay at or below the action levels each year. Further investigation will be discussed with the City after the 2024 screening if the trends increase or other illicit discharge indicators are measured again.

4. **M2f-1** *was screened in August 2022 at the upstream manhole near the intersection of Ludington Street and Stanton Street. In-field test detected ammonia levels at 4.0 mg/L which is above the action level of 0.1 mg/L. The manhole was rescreened in October 2022 for field parameters and a water sample was collected to be analyzed for ammonia to confirm the in-field test. This sample was submitted to Pace Analytical Services for laboratory analysis. The concentration of ammonia was reported at 3.7 mg/L which verified the in-field test. When discussing this exceedance with the City, it was determined that this manhole is adjacent to an open WDNR Environmental Repair Program (ERP) site located at 1310-1330 Main Street, which has records of buried solid waste. It is expected that the contaminated groundwater is infiltrating the storm water system upstream of this manhole and is a likely source of the ammonia exceedance.*

The outfall was screened in August 2023 again at the upstream manhole near the intersection of Ludington Street and Stanton Street. The in-field test detected ammonia levels at 5.0 mg/L and conductivity of 2,348 µS/cm which are above the associated action levels. These levels are still expected to be a result of the impact of the ERP site mentioned above. This outfall will be screened annually for the next three years to evaluate the storm water quality at this outfall ending in 2026 if detections stay at or below the action levels each year. Further investigation will be discussed with the City after the 2024 screening if the chemical indicators are measured again or significantly increase.

5. **M2i-1** *was screened in August 2022 at the first upstream manhole due to inaccessibility of the outfall. The field readings and in-field tests detected a conductivity of 3,036 µS/cm, and total chlorine of 0.2 mg/L which are both over their respective action levels. The manhole was rescreened in October 2022. During the rescreening, the manhole showed a total chlorine of 0.1 mg/L which is at the action level and showed a conductivity of 3,000 µS/cm which is above the action level. In an effort to determine the source of the elevated conductivity, with assistance from the City, upstream manholes were screened. The next upstream manhole located at the intersection of Stephenson Street and Dunlap Avenue was screened and showed a conductivity of 2,000 µS/cm. The next upstream manhole near the intersection of Highway US-41 and Court Street was screened and showed a conductivity of 3,600 µS/cm. The next upstream manhole near the intersection of US-41 and Hattie Street was screened and showed a conductivity of 3,000 µS/cm. The next*

upstream manhole near the intersection of US-41 and Currie Street was screened and was dry therefore no conductivity data was able to be obtained and tracking ceased. Due to the widespread elevated conductivity in the storm water pipes, a specific source was unable to be determined; however, heavy winter salt spreading on Highway US-41 and/or potential contaminated groundwater associated with sites identified in the WDNR's RR Sites Map located near this storm sewer line are potential sources.

The outfall was screened again in August 2023 directly from the outfall into the river and recorded a conductivity of 2,766 µS/cm and had a slight petroleum odor. Based on the screening and tracking completed last year, high conductivity and petroleum odor are expected. This outfall will be screened annually for the next three years to evaluate the storm water quality at this outfall ending in 2026 if detections stay at or below the action levels each year. Further investigation will be discussed with the City after the 2024 screening if the chemical indicators are detected again or concentrations increase.

6. **M2o-1** *was screened in 2022 directly from the outfall draining into the Menominee River. Water quality readings detected a conductivity of 2,408 µS/cm which is above the action level of 2,000 µS/cm.*

In August 2023, the outfall was rescreened and recorded a conductivity of 3933 µS/cm. The significant increase in conductivity is likely a result of the adjacent open WDNR ERP Site. According to the City, there are also other contaminated properties upstream of this outfall which may contribute to the elevated conductivity. This outfall will be rescreened in 2024 annually for the next three years to evaluate the storm water quality at this outfall ending in 2026 if detections stay at or below the action levels each year. Further investigation will be discussed with the City after the 2024 screening if the action level exceedance conductivity is measured again.

7. **S1d-2** *was screened in 2022 from the southwest ditch, south of the culvert that crosses Lincoln Street. In-field tests detected ammonia levels at 0.6 mg/L, which is above the action level of 0.1 mg/L, however, water was stained yellow which would alter the test results. The City plans to rescreen this outfall for ammonia in 2023 to confirm the field test in lieu of a laboratory test.*

In August 2023, the outfall was rescreened and recorded an ammonia concentration of 4.0 mg/L with the in-field color comparator test. Due to the strong yellow color of the storm water sample, and the yellow comparator test colors, the ammonia action level exceedance is not expected to be representative of actual chemical concentrations of ammonia. As a precaution, this outfall will be screened annually for the next three years to evaluate the storm water quality at this outfall ending in 2026, if detections stay at or below the action levels each year. Further investigation will be discussed with the City after the 2024 screening if the chemical indicator of ammonia is detected again or concentrations increase.

8. **D1j-1** was screened in October 2023 and recorded a concentration of phenols at 0.2 mg/L and ammonia at 0.4 mg/L according to the in-field tests, which are above the associated action levels; however, the water had a strong yellow/gold color observed when screened. This yellow/gold color likely skewed the visual test for phenols and ammonia. As a

precaution, this outfall will be screened annually for the next three years to evaluate the storm water quality at this manhole ending in 2026, if detections stay at or below the action levels each year. Further investigation will be discussed with the City after the 2024 screening if the chemical indicators are detected again or concentrations increase.

9. **D1c-2** *was screened in 2021 and recorded a concentration of chlorine at 0.2 mg/L, which is above the action level, and was identified as a possible illicit discharge in 2021. The outfall was rescreened in 2022 and showed a decreased concentration of chlorine at 0.1 mg/L.*

In 2023, the outfall was rescreened, and recorded a concentration of 0.1 mg/L for chlorine and 0.2 mg/L of ammonia. The chlorine concentration is at the action level, and the ammonia concentration exceeds the action level. This outfall will continue to be screened annually for ammonia, chlorine, and field parameters ending in 2026, if detections stay at or below the action levels each year. Further investigation will be discussed with the City after the 2024 screening if the chemical indicator of chlorine or ammonia is detected again or concentrations increase.

SCREENING SCHEDULE

As described in the 'City of Marinette Illicit Discharge Detection & Elimination Program – Summary of Initial Field Screening', December 15, 2009, the major outfalls within the City's jurisdiction are scheduled to be screened every three (3) years and the minor outfalls are scheduled to be screened every five (5) years. This schedule may be adjusted according to the WPDES permit which states that 100% of the major outfalls must be screened at least once during the term of the permit (by April 30, 2024). The minor outfalls will also be screened at least once by the end of the permit.

RECOMMENDED FUTURE SCREENING

Extra annual screenings are required for outfalls where potential illicit discharges were detected within the prior three (3) years. In addition to annual screening of outfalls where potential illicit discharges were detected within the prior three (3) years, the City of Marinette screens approximately one third of the major and one fifth of the minor outfalls annually. Table 4 summarizes annual screenings due to potential illicit discharge within the previous three (3) years. More details are in the Summary of Potential Illicit Discharge Outfalls above and the screening worksheets located in Appendix B.

Table 4 - Future Annual Screening Summary

Outfall ID	Initial Detection Year	Current or Past Detection Parameters	2023 Screening Results	Annual Screening End Year Based on 2023 Results
E2-1	2022	Ammonia	No flow present on day of screening.	2025
E2-5	2022	Ammonia	No flow present on day of screening.	2025
M2n-1	2022	Petroleum Odor	Flow was noted with no odor observed.	2025
M2j-1	2018	Ammonia, Conductivity, VOCs, Petroleum Odor	Flow was noted with an ammonia concentration of 0.5 mg/L, and a conductivity at 2,223 µS/cm.	2026
D1j-6	2022	Conductivity, Chlorine, Phenols, Ammonia	Flow was noted with a conductivity of 1,691 µS/cm, chlorine concentration of 0.3 mg/L, phenols concentration of 0.2 mg/L, and ammonia concentration of 0.4 mg/L.	2026
D1m3(1)-2	2022	Conductivity	Flow was noted with a conductivity of 3,098 µS/cm.	2026
M2f-1	2022	Ammonia, Conductivity	Flow was noted with an ammonia concentration of 5.0 mg/L, and a conductivity of 2,348 µS/cm.	2026
M2i-1	2022	Conductivity, Chloride	Flow was noted with conductivity at 2,766 µS/cm and a chloride concentration of 0.1 mg/L.	2026
M2o-1	2022	Conductivity	Flow was noted with conductivity at 3,933 µS/cm.	2026
S1d-2	2022	Ammonia	Flow was noted with an ammonia concentration of 4.0 mg/L.	2026
D1j-1	2023	Ammonia, Color, Phenols	Flow was noted with an ammonia concentration of 0.4 mg/L, a strong golden yellow color, and phenols concentration of 0.2 mg/L.	2026
D1c-2	2021	Chlorine	Flow was noted with a chlorine concentration at 0.1 mg/L.	2026

If annual screenings do not show illicit discharge indicators for the outfalls in Table 4 for three (3) years, the screening frequency of these outfalls will return to its normal cycle.

No new outfalls were added in 2023. Any future new outfalls are anticipated to be screened at least once by 2024 in accordance with the City of Marinette Illicit Discharge Detection & Elimination Program.

The City has twenty-seven (27) major outfalls, seventy-three (73) minor outfalls, and eight (8) supplemental outfalls in the screening program. Of the eight (8) supplemental outfalls, three (3)

meet the major outfall criteria and are recommended to be screened at the same frequency as major outfalls.

See Appendix A for a table of all the outfalls within the City's screening program and the dates of their most recent screening. Rows with green backgrounds are outfalls that had flow, and therefore, were screened and field tested in 2023. Appendix B contains the field screening reports for the outfalls screened in the 2023 Field Screening Program.

A

APPENDIX A

OUTFALLS IN THE CITY OF MARINETTE FIELD SCREENING PROGRAM

CITY OF MARINETTE

OUTFALLS IN ON-GOING MS4 ILLICIT DISCHARGE SCREENING PROGRAM

2023 Status

Outfall ID	Sub ID	Outfall Location	Outfall Description	Watershed IDs	Watershed Acres	Outfall Type	Last Screening	Next Scheduled Screening	2023 Flow Present or Status
D1i	1	Marinette Garage Site	36"	D1i	60	Major	2023	2026	No Flow, Illicit Discharge Unlikley
D1j	1	Industrial Parkway South	66"	D1j-s	416	Major	2023	2024 Annual Rescreen	Flow, Possible Illicit Discharge
D1j	4	Industrial Parkway South	SW Ditch	Partial D1j1	7	Major	2021	2024	NOT SCREENED
D1j	6	Industrial Parkway South	24" (Tied into 66")	D1j2	20	Major	2023	2024 Annual Rescreen	Flow, Possible Illicit Discharge
D1k	1	Stearns Drive	57"x83"	D1k-s	354	Major	2023	2026	Flow, Illicit Dischage Unlikely
D1k	3	Stearns Drive	NE Ditch	D1j3-4, Partial D1j1	27	Major	2023	2026	No Flow, Illicit Discharge Unlikley
D1k	4	Stearns Drive	SW Ditch	Dk1-2, D1l-o,	243	Major	2023	2026	Flow, Illicit Dischage Unlikely
D1k3	1	Old Peshtigo Road	4' x 8' Concrete Box	D1p-s	258	Major	2023	2026	No Flow, Illicit Discharge Unlikley
D2	1	Pierce Avenue	30"	D2	317	Major	2023	2026	No Flow, Illicit Discharge Unlikley
D2c	1	Mary Street	42"	D2c-d	231	Major	2021	2024	NOT SCREENED
E2	1	University Drive	45"x29"	E2	128	Major	2023	2024 Annual Rescreen	No Flow, Illicit Discharge Unlikley
G3b	1	West Bay Shore Street	24"	G3b1-2	74	Major	2022	2025	NOT SCREENED
L1a3	1	Roosevelt Road, south of Parsek Street	W Ditch	Partial L1a3, L2a-c	71	Major	2021	2024	NOT SCREENED
M1b1	1	Ogden Street	East Ditch	M1b1	4	Major	2021	2024	NOT SCREENED
M1b2	1	Ogden Street - west side	MH / 30"	M1b2	8	Major	2021	2024	NOT SCREENED
M1b3	1	East side of Ogden Street	15"	Partial M1b3	2	Major	2022	2025	NOT SCREENED
M2b	1	Ogden Street	18"	M2b	24	Major	2022	2025	NOT SCREENED
M2e2	1	6th St. @ Boat Landing	36"	M2e2-3	234*	Major	2022	2025	NOT SCREENED
M2f	1	Stanton Street, discharges to private storm	MH / 42"	Portion of M2f	50	Major	2023	2024 Annual Rescreen	Flow, Possible Illicit Discharge
M2g	1	Mann St. Boat Landing	30"	M2g	24	Major	2022	2025	NOT SCREENED
M2h	1	Wells Street	66"	M2h	352*	Major	2022	2025	NOT SCREENED
M2i	1	Bridge Street	48"	M2h	48	Major	2023	2024 Annual Rescreen	Flow, Possible Illicit Discharge
M2n	1	Riverside Ave @ Burns St.	48"	M2n, M4p	306	Major	2023	2024 Annual Rescreen	Flow, Illicit Dischage Unlikely
M2o	1	Riverside Ave @ Lester St.	36"	M20	42	Major	2023	2024 Annual Rescreen	Flow, Possible Illicit Discharge
L1b(1)	1	Northwest corner of Parsek Pond - Inlet	36" / Ditch	L1b	24	Major-Supplemental	2021	2024	NOT SCREENED

Outfall ID	Sub ID	Outfall Location	Outfall Description	Watershed IDs	Watershed Acres	Outfall Type	Last Screening	Next Scheduled Screening	2023 Flow Present or Status
L2a(1)	1	Angwall Dry Pond Inlet	30" Culvert	L2a	13	Major-Supplemental	2022	2025	NOT SCREENED
L2c(1)	1	Murray Dry Pond Inlet	36" Culvert	Partial L2c	15	Major-Supplemental	2022	2025	NOT SCREENED
D1a	2	Bay Shore Street - West Side	NW Ditch	Partial D1a1	1	Minor	2021	2026	NOT SCREENED
D1a	3	Bay Shore Street - West Side	SW Ditch	Partial D1a1	3	Minor	2021	2026	NOT SCREENED
D1a4	2	Edgewood Circle	North Gutter	Partial D1a4	2	Minor	2021	2026	NOT SCREENED
D1a4	3	Edgewood Circle	South Gutter	Partial D1a4	2	Minor	2021	2026	NOT SCREENED
D1c	2	Shore Drive	27"	D1b1	23	Minor	2023	2024 Annual Rescreen	Flow, Illicit Dischage Possible
D1c	3	Shore Drive	18"	D1b2	2	Minor	2021	2024	NOT SCREENED
D1d	2	Florence Street	15"	Partial D1e	7	Minor	2019	2024	NOT SCREENED
D1d	3	Florence Street	12"	D1d	9	Minor	2019	2024	NOT SCREENED
D1f	2	Todd Street	12"	Partial D1e	6	Minor	2019	2024	NOT SCREENED
D1g	2	Edwin Street	NW Ditch	Partial D1g1	1	Minor	2021	2026	NOT SCREENED
D1g	3	Edwin Street	NE Ditch	Partial D1f	1	Minor	2021	2026	NOT SCREENED
D1g	4	Edwin Street	SW Ditch	Partial D1f	1	Minor	2021	2026	NOT SCREENED
D1g1	2	North end of Oak View Road	West Gutter	Partial D1g1	1	Minor	2022	2027	NOT SCREENED
D1g1	3	North end of Oak View Road	East Gutter	Partial D1g1	1	Minor	2022	2027	NOT SCREENED
D1h	2	Pierce Avenue	SW Ditch	Partial D1h	2	Minor	2021	2026	NOT SCREENED
D1h	3	Pierce Avenue	24"	Partial D1h	10	Minor	2020	2025	NOT SCREENED
D1j	2	Industrial Parkway South	NW Ditch	Partial D1j1	1	Minor	2021	2026	NOT SCREENED
D1j	3	Industrial Parkway South	NE Ditch	Partial D1h	1	Minor	2021	2026	NOT SCREENED
D1j	5	Industrial Parkway South	SE Ditch	Partial D1h	1	Minor	2021	2026	NOT SCREENED
D1k	5	Stearns Drive	SE Ditch	Partial D1j1	1	Minor	2021	2026	NOT SCREENED
D1k	6	Old Pestigo Road	N Ditch	Partial D1k3	1	Minor	2020	2025	NOT SCREENED
D1k	7	Old Pestigo Road	S Ditch	Partial D1k3	1	Minor	2020	2025	NOT SCREENED
D1k2	1	Old Pestigo Road	MH / 18"	Partial D1k2	1	Minor	2022	2027	NOT SCREENED
E1	1	Green Gable Road	West Ditch	Partial E1	2	Minor	2022	2027	NOT SCREENED
E1	2	Green Gable Road	East Ditch	Partial E1	5	Minor	2022	2027	NOT SCREENED
E2	4	University Drive	SW Ditch	Partial G1a2	2	Minor	2022	2027	NOT SCREENED

Outfall ID	Sub ID	Outfall Location	Outfall Description	Watershed IDs	Watershed Acres	Outfall Type	Last Screening	Next Scheduled Screening	2023 Flow Present or Status
E2	5	University Drive	SE Ditch	Partial G1a2	3	Minor	2023	2024 Annual Rescreen	No Flow, Illicit Discharge Unlikley
G1b	1	University Drive	West Ditch	Partial G1	3	Minor	2022	2027	NOT SCREENED
G3b1	1	Edwin Street, west of West Bay Shore Street	24"	G3b1	46	Minor	2023	2028	No Flow, Illicit Discharge Unlikley
G4	1	West Bay Shore Street (SW Storm)	6"	Partial G4	1	Minor	2020	2025	NOT SCREENED
G4	2	West Bay Shore Street (NE Storm)	6"	Partial G4	1	Minor	2020	2025	NOT SCREENED
G6	1	Ogden Street, South of W. Bayshore Street	24"	G6	41	Minor	2023	2028	No Flow, Illicit Discharge Unlikley
G9	1	Northeast of Lake Street and Hills Court	10"	G9a	2	Minor	2023	2028	No Flow, Illicit Discharge Unlikley
L1a1	1	Northwest of Gallgher Road and Angwall Drive	Ditch	L1a1	12	Minor	2023	2028	No Flow, Illicit Discharge Unlikley
L1a2	1	Old Pestigo Road	W Ditch	Partial L1a2	1	Minor	2023	2028	No Flow, Illicit Discharge Unlikley
L1a2	2	Old Pestigo Road	E Ditch	Partial L1a2	1	Minor	2023	2028	No Flow, Illicit Discharge Unlikley
L3c3	1	Woleske Road	W Ditch	Partial L1c	2	Minor	2022	2027	NOT SCREENED
L3c3	2	Woleske Road	E Ditch	Partial L1c	1	Minor	2022	2027	NOT SCREENED
M2c	1	Water St & 1st St.	30"	M2c	26	Minor	2023	2028	No Flow, Illicit Discharge Unlikley
M2d	1	Water St & 3rd St.	30"	M2d	31	Minor	2023	2028	No Flow, Illicit Discharge Unlikley
M2e1	1	6th St. @ Boat Landing	30"	M2e1	23*	Minor	2023	2028	No Flow, Illicit Discharge Unlikley
M2j	1	Riverside Ave @ Hattie Ct.	30"	M2j	18	Minor	2023	2024 Annual Rescreen	Flow, Possible Illicit Discharge
M2k	1	Riverside Ave @ Hattie St.	30"	M2k	33	Minor	2020	2025	NOT SCREENED
M2l	1	Riverside Ave @ Houston St.	24"	M2l	25	Minor	2020	2025	NOT SCREENED
M2m	1	Riverside Ave @ Park St.	12"	M2m	9	Minor	2020	2025	NOT SCREENED
M2o	2	Riverside Ave @ Lester St.	18"	Partial M2o	2	Minor	2020	2025	NOT SCREENED
M4a	1	Marinette County Library at Menominee River	18"	M4a	1	Minor	2020	2025	NOT SCREENED
M4b	1	Marinette County Library at Menominee River	15"	M4b	1	Minor	2019	2024	NOT SCREENED
M4c	1	Riverside Avenue at Menominee River	15"	M4c	4	Minor	2020	2025	NOT SCREENED
M4d	1	Riverside Avenue at Menominee River	15"	M4d	4	Minor	2020	2025	NOT SCREENED
M4e	1	Riverside Avenue at Menominee River	18"	M4e	1	Minor	2020	2025	NOT SCREENED
D1g2(1)	1	Lake Park Estates Pond Inlet	24"	D1g2	26	Minor-Supplemental	2019	2024	NOT SCREENED
D1m2	1	Cahill Road	24"	D1m2	12	Minor-Supplemental	2021	2026	NOT SCREENED
D1m3(1)	1	Edwin Street, east of Cahill Road	18"	portion of D1m3	15	Minor-Supplemental	2022	2027	NOT SCREENED

Outfall ID	Sub ID	Outfall Location	Outfall Description	Watershed IDs	Watershed Acres	Outfall Type	Last Screening	Next Scheduled Screening	2023 Flow Present or Status
D1m3(1)	2	East of Gallagher Road and Cahill Road	24"	portion of D1m3	15	Minor-Supplemental	2023	2024* Annual Resample	Flow, Possible Illicit Discharge
D1n2	1	Pine Tree Road	18"	D1n2-3	8	Minor-Supplemental	2019	2024	NOT SCREENED
M4f	1	Riverside Avenue at Menominee River	8"	M4f	1	Minor	2020	2025	NOT SCREENED
M4h	1	Riverside Avenue at Menominee River	27"	M4h-k, M4r	13	Minor	2020	2025	NOT SCREENED
M4k	1	Riverside Avenue at Menominee River	12"	M4k	3	Minor	2020	2025	NOT SCREENED
M4l	1	Riverside Avenue at Menominee River	15"	M4l	1	Minor	2019	2024	NOT SCREENED
M4m	1	Riverside Avenue at Menominee River	12"	M4m-n	1	Minor	2020	2025	NOT SCREENED
M4o	1	Riverside Avenue at Menominee River	15"	M4o	2	Minor	2019	2024	NOT SCREENED
M4q	1	Riverside Avenue at Menominee River	12"	M4q	1	Minor	2019	2024	NOT SCREENED
M5	1	Riverside Avenue at Menominee River	30"	M5	12	Minor	2019	2024	NOT SCREENED
O1a1	2	West Bay Shore Street	SW Ditch	Partial O1a1	1	Minor	2023	2028	No Flow, Illicit Discharge Unlikley
O1a1	3	West Bay Shore Street	SE Ditch	Partial O1a1	1	Minor	2022	2027	NOT SCREENED
O1a2	1	West Russell Street	SW Ditch	Partial O1a2	3	Minor	2023	2028	No Flow, Illicit Discharge Unlikley
O1a2	2	West Russell Street	SE Ditch	Partial O1a2	7	Minor	2019	2024	NOT SCREENED
O1a3	1	Hancock Street	NW Ditch	Partial O1a3	1	Minor	2019	2024	NOT SCREENED
O1a3	2	Hancock Street	SW Ditch	Partial O1a3	2	Minor	2019	2024	NOT SCREENED
O1b	1	Dousman Street	24"X36"	O1b1-3	23	Minor	2022	2027	NOT SCREENED
O1b	2	Dousman Street	NW Ditch	Partial O1b1, O1b2-3	16	Minor	2022	2027	NOT SCREENED
O1b	3	Dousman Street	SW Ditch	Partial O1b1	2	Minor	2019	2024	NOT SCREENED
O1c	1	Locust Street	36"	O1c	33	Major	2022	2027	NOT SCREENED
S1b	1	5th Street	36"	S1b	29	Major	2022	2027	NOT SCREENED
S1c	2	6th Street - Ties into 48" Culvert	27"	S1c2	29	Minor	2019	2024	NOT SCREENED
S1d	2	Lincoln Street	SW Ditch	Partial S1d1	2	Minor	2023	2024 Annual Rescreen	Flow, Possible Illicit Discharge
S1d	3	Lincoln Street	SE Ditch	Partial S1d1	1	Minor	2022	2027	NOT SCREENED
S1d	4	Lincoln Street - South of Jacobson Street, north of 36"	MH / 24"	S1d2	93	Major	2022	2025	NOT SCREENED

= Flow present, outfalls were screened, field tested in 2023 and had indicators of a possible illicit discharge

= Flow present, outfalls were screened, and field tested in 2023, illicit discharge unlikley

= No flow observed, outfalls were screened, but were not field tested in 2023

= 2024 Annual Rescreen Required

B

APPENDIX B

2023 OUTFALL FIELD SCREENING REPORTS

City of Marinette
1905 Hall Ave
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MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: M2n-1	
Date of Inspection: 8/8/2023 2:18 PM	Outfall Type: Major	
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 1.37 in.	
Location Description: Burns and Riverside Lat., Long.: -87.646177, 45.104698	**Temperature (˚C):** 18.0 Weather: Clear Skies Flow: Yes Flow Description: Slow	

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☒ Closed Pipe ☐ Open Pipe	RCP	Circular	Diameter (in.): 48 Height (in.): Width (in.):	Yes Water

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion ☐ Pipe separation	☐ Peeling Paint ☐ Erosion	☐ Spalling/Cracking ☐ Other:	☐ Chipping
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☒ Pipe Benthic Growth	☒ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☐ Excessive		
☐ Poor Pool Quality	☐ Odors ☐ Floatables	☐ Colors ☐ Iron Bacteria Sheen	☐ Oil Sheen ☐ Other:	☐ Suds

(FLOWING OUTFALLS ONLY)

☐ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☐ Colors	☐ Clear ☐ Yellow	☐ Brown	☐ Green	☐ Orange	☐ Red

☒ Turbidity 5.23 Severity Level: Faint

SAMPLE RESULTS	ACTION LEVEL
pH: 7.9	Less than 6 or greater than 9
Total Chlorine: 0.10	0.1 mg/L
Detergent: 0.25 (mg/l)	0.5 mg/L
Total Copper: 0.00 (mg/l)	0.1 mg/L
Total Phenols: 0.00(mg/l)	0.1 mg/L
Ammonia: 0.10(mg/l)	0.1 mg/L
Conductivity: 957	2,000 µS/cm

Potential for Illicit Discharge: Unlikely
Non-Illicit Discharge: None
Other Comments: Sampled from outfall draining into the river

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LOCATION MAP

COMMENTS AND IMAGES	
	
Image rotated	No Photo Comment

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MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: M2i-1
Date of Inspection: 8/8/2023 4:10 PM	Outfall Type: Major
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 1.37 in.
Location Description: Culvert under SE side of bridge. Lat., Long.: -87.629432, 45.100590	**Temperature (˚C):** 22.7 Weather: Clear Skies Flow: Yes Flow Description: Slow

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☒ Closed Pipe ☐ Open Pipe	RCP	Circular	Diameter (in.): 48 Height (in.): Width (in.):	No

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion	☐ Peeling Paint	☐ Spalling/Cracking	☐ Chipping
	☐ Pipe separation	☐ Erosion	☐ Other:	
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☒ Pipe Benthic Growth	☒ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☐ Excessive		
☒ Poor Pool Quality	☒ Odors	☒ Colors	☐ Oil Sheen	☒ Suds
	☐ Floatables	☐ Iron Bacteria Sheen	☐ Other:	

(FLOWING OUTFALLS ONLY)

☒ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☒ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☒ Colors	☐ Clear ☒ Yellow	☐ Brown	☐ Green	☐ Orange	☐ Red

☒ Turbidity 6.57 Severity Level: Moderate

SAMPLE RESULTS	ACTION LEVEL
pH: 8.3	Less than 6 or greater than 9
Total Chlorine: 0.10	0.1 mg/L
Detergent: 0.25 (mg/l)	0.5 mg/L
Total Copper: 0.00 (mg/l)	0.1 mg/L
Total Phenols: 0.00(mg/l)	0.1 mg/L
Ammonia: 0.10(mg/l)	0.1 mg/L
Conductivity: 2766	2,000 µS/cm

Potential for Illicit Discharge: Possible
Non-Illicit Discharge: None
Other Comments: Outfall drains into river, high conductivity and slight Petroleum Odor

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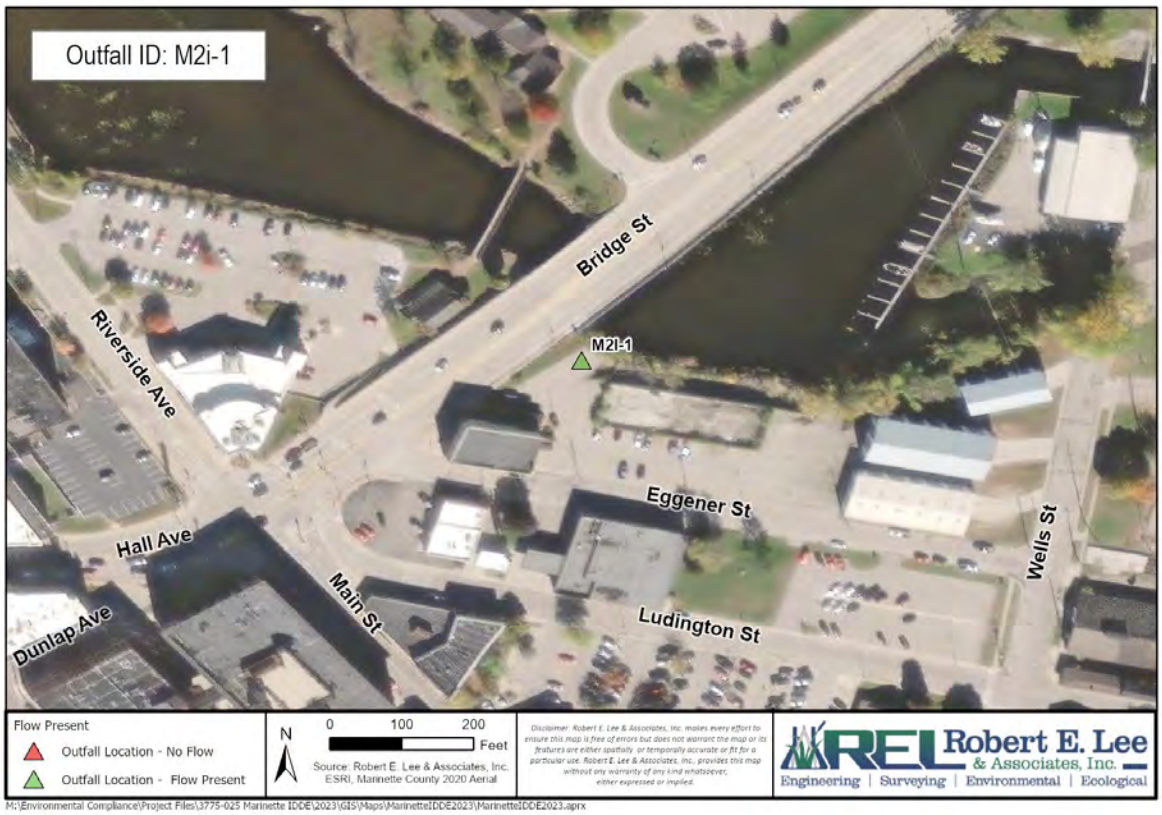
LOCATION MAP



COMMENTS AND IMAGES

Pool from outfall, lots of foam. Photo rotated counter-clockwise.

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MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: E2-5
Date of Inspection: 8/9/2023 2:40 PM	Outfall Type: Minor
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 1.37 in.
Location Description: Ditch on the east side of E2-1 culvert, south of University Drive. Lat., Long.: -87.624307, 45.070613	**Temperature (˚C):** Weather: Clear Skies
	Flow: No Flow Description:

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☐ Closed Pipe ☒ Open Pipe	CGRASS		Diameter (in.): Height (in.): Width (in.):	No

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion	☐ Peeling Paint	☐ Spalling/Cracking	☐ Chipping
	☐ Pipe separation	☐ Erosion	☐ Other:	
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☒ Pipe Benthic Growth	☒ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☐ Excessive		
☒ Poor Pool Quality	☐ Odors	☐ Colors	☐ Oil Sheen	☐ Suds
	☒ Floatables	☐ Iron Bacteria Sheen	☐ Other:	

(FLOWING OUTFALLS ONLY)

☐ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☐ Colors	☐ Clear	☐ Brown	☐ Green	☐ Orange	☐ Red
	☐ Yellow				

☐ Turbidity Severity Level:

SAMPLE RESULTS	ACTION LEVEL
pH:	Less than 6 or greater than 9
Total Chlorine:	0.1 mg/L
Detergent: (mg/l)	0.5 mg/L
Total Copper: (mg/l)	0.1 mg/L
Total Phenols: (mg/l)	0.1 mg/L
Ammonia: (mg/l)	0.1 mg/L
Conductivity:	2,000 µS/cm

Potential for Illicit Discharge: Unlikely
Non-Illicit Discharge: None
Other Comments: No flow observed in ditch southeast of culvert. Not eNough water in ditch to even connect outfall to E2-1 outfall.

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LOCATION MAP

COMMENTS AND IMAGES	
No additional photos taken	No additional photos taken
No Photo Comment	No Photo Comment

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MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: E2-1	
Date of Inspection: 8/9/2023 2:52 PM	Outfall Type: Major	
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 1.37 in.	
Location Description: North/south culvert on University Drive. Lat., Long.: -87.624558, 45.070776	**Temperature (˚C):** Weather: Clear Skies Flow: No Flow Description:	

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☐ Closed Pipe ☒ Open Pipe	CMP	Elliptical	Diameter (in.): Height (in.): 2929 Width (in.): 45	Yes Water

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion ☐ Pipe separation	☐ Peeling Paint ☐ Erosion	☐ Spalling/Cracking ☐ Other:	☐ Chipping
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☒ Pipe Benthic Growth	☒ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☒ Excessive		
☒ Poor Pool Quality	☐ Odors ☐ Floatables	☐ Colors ☒ Iron Bacteria Sheen	☐ Oil Sheen ☐ Other:	☐ Suds

(FLOWING OUTFALLS ONLY)

☐ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☐ Colors	☐ Clear ☐ Yellow	☐ Brown	☐ Green	☐ Orange	☐ Red

☐ Turbidity Severity Level:

SAMPLE RESULTS	ACTION LEVEL
pH:	Less than 6 or greater than 9
Total Chlorine:	0.1 mg/L
Detergent: (mg/l)	0.5 mg/L
Total Copper: (mg/l)	0.1 mg/L
Total Phenols: (mg/l)	0.1 mg/L
Ammonia: (mg/l)	0.1 mg/L
Conductivity:	2,000 µS/cm

Potential for Illicit Discharge: Unlikely
Non-Illicit Discharge: None
Other Comments: No flow observed at neither the North or south end of the culvert, only stagnant water forming a pool.

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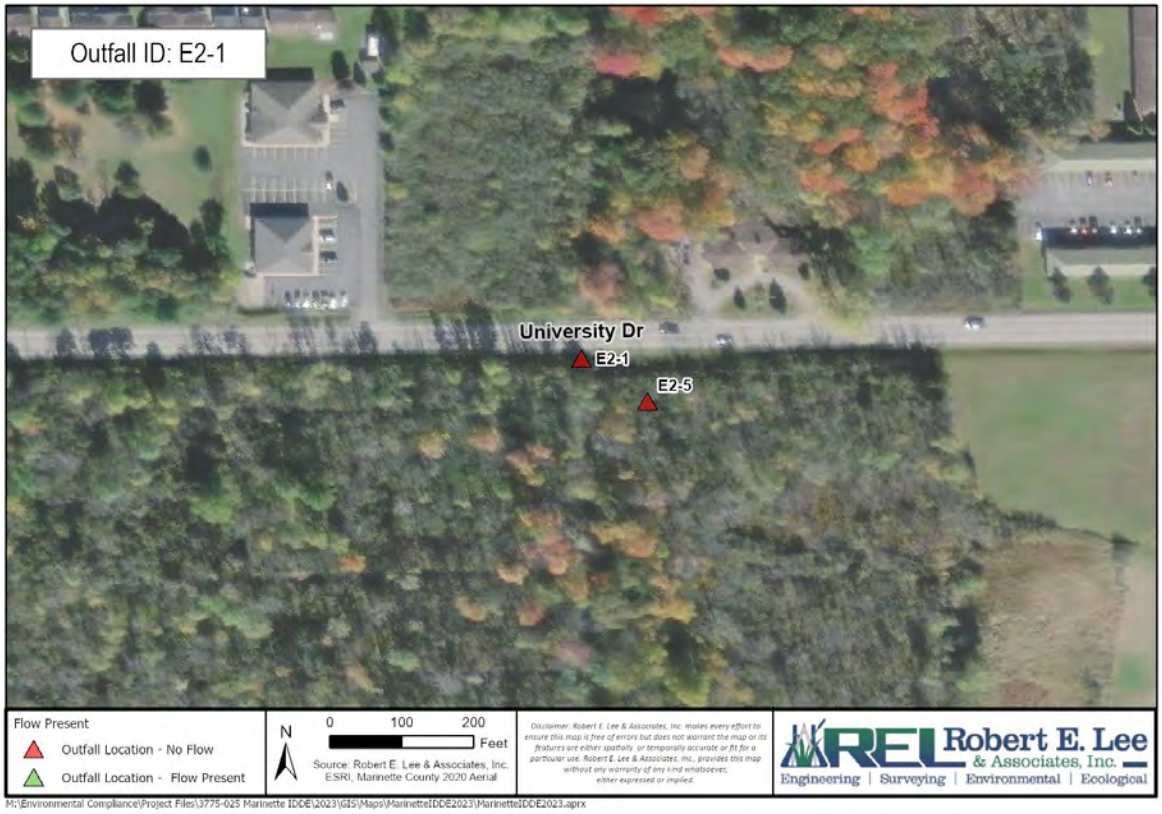
LOCATION MAP



COMMENTS AND IMAGES	
No additional photos taken	No additional photos taken
No Photo Comment	No Photo Comment

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MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: D1m3(1)-2	
Date of Inspection: 8/9/2023 3:37:00 PM	Outfall Type: Minor	
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 1.37 in.	
Location Description: Extention of Gallagher Road at Cahill Road, culvert dumps into ditch Lat., Long.: -87.654882, 45.076132	**Temperature (˚C):** 20.7 Weather: Clear Skies	
	Flow: Yes Flow Description: Slow	

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☒ Closed Pipe ☐ Open Pipe	RCP	Circular	Diameter (in.): 24 Height (in.): Width (in.):	Yes Water

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion	☐ Peeling Paint	☐ Spalling/Cracking	☐ Chipping
	☐ Pipe separation	☐ Erosion	☐ Other:	
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☒ Benthic Growth	☒ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☐ Excessive		
☐ Poor Pool Quality	☐ Odors	☐ Colors	☐ Oil Sheen	☐ Suds
	☐ Floatables	☐ Iron Bacteria Sheen	☐ Other:	

(FLOWING OUTFALLS ONLY)

☐ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☐ Colors	☐ Clear	☐ Brown	☐ Green	☐ Orange	☐ Red
	☐ Yellow	☐ Gold			

☒ Turbidity 2.74 Severity Level: Faint

SAMPLE RESULTS	ACTION LEVEL
pH: 7.8	Less than 6 or greater than 9
Total Chlorine: 0.10	0.1 mg/L
Detergent: 0.75 (mg/l)	0.5 mg/L
Total Copper: 0.00 (mg/l)	0.1 mg/L
Total Phenols: 0.10(mg/l)	0.1 mg/L
Ammonia: 0.10(mg/l)	0.1 mg/L
Conductivity: 3098	2,000 µS/cm

Potential for Illicit Discharge: Possible
Non-Illicit Discharge: None
Other Comments: Flow at culvert.

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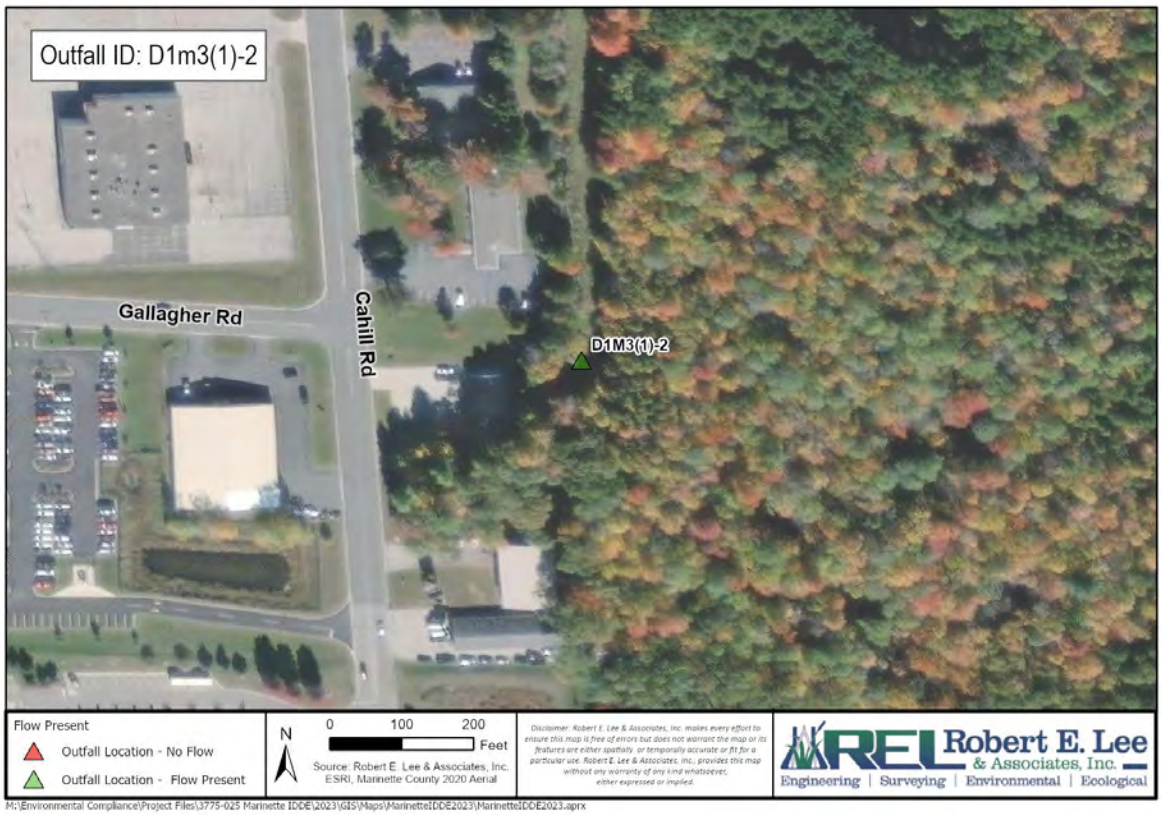
LOCATION MAP



COMMENTS AND IMAGES	
No additional photos taken	No additional photos taken
No Photo Comment	No Photo Comment

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MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: G9-1	
Date of Inspection: 8/9/2023 6:45:00 PM	Outfall Type: Minor	
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 1.37 in.	
Location Description: NE of Lake Street and Hillis Court Lat., Long.: -87.592077, 45.089728	**Temperature (˚C):** Weather: Clear Skies Flow: No Flow Description:	

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☒ Closed Pipe ☐ Open Pipe	RCP	Circular	Diameter (in.): 10 Height (in.): Width (in.):	Yes Water

PHYSICAL INDICATORS

☒ Outflow Damage:	☐ Corrosion ☐ Pipe separation	☐ Peeling Paint ☐ Erosion	☒Spalling/Cracking ☐ Other:	☒ Chipping
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☐ Pipe Benthic Growth	☒ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☐ Excessive		
☒ Poor Pool Quality	☐ Odors ☒ Floatables	☒ Colors ☒ Iron Bacteria Sheen	☐ Oil Sheen ☐ Other:	☐ Suds

(FLOWING OUTFALLS ONLY)

☐ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☐ Colors	☐ Clear	☐ Brown	☐ Green	☐ Orange	☐ Red
	☐ Yellow	☐ Gold			
☐ Turbidity	Severity Level: Faint				

SAMPLE RESULTS	ACTION LEVEL
pH:	Less than 6 or greater than 9
Total Chlorine:	0.1 mg/L
Detergent: (mg/l)	0.5 mg/L
Total Copper: (mg/l)	0.1 mg/L
Total Phenols: (mg/l)	0.1 mg/L
Ammonia: (mg/l)	0.1 mg/L
Conductivity:	2,000 µS/cm

Potential for Illicit Discharge: Unlikely
Non-Illicit Discharge: None
Other Comments: Outfall and upstream manhole both had No observed flow.

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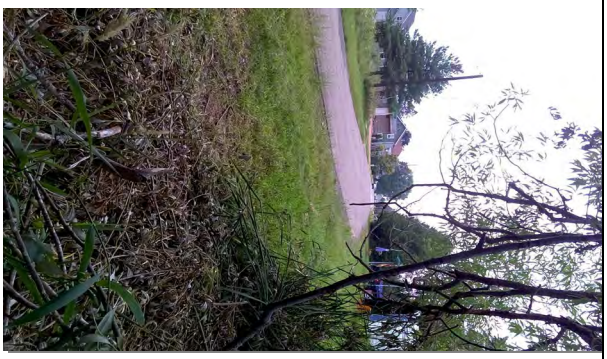
LOCATION MAP

COMMENTS AND IMAGES

	
View from upslope manhole at the corner of Lake Street and Alimeda Street. Photo Rotated.	View of Lake Street from outfall. Photo Rotated.

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MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: G3b1-1	
Date of Inspection: 8/9/2023 8:12:00 PM	Outfall Type: Minor	
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 1.37 in.	
Location Description: Edwin Street, west of West Bay Shore Street. Lat., Long.: -87.609559, 45.078460	**Temperature (˚C):** Weather: Clear Skies	
	Flow: No Flow Description:	

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☒ Closed Pipe ☐ Open Pipe	RCP	Circular	Diameter (in.): 24 Height (in.): Width (in.):	Yes Water

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion	☐ Peeling Paint	☐ Spalling/Cracking	☐ Chipping
	☐ Pipe separation	☐ Erosion	☐ Other:	
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☒ Pipe Benthic Growth	☒ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☐ Excessive		
☒ Poor Pool Quality	☐ Odors	☒ Colors	☐ Oil Sheen	☐ Suds
	☒ Floatables	☐ Iron Bacteria Sheen	☐ Other:	

(FLOWING OUTFALLS ONLY)

☐ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☐ Colors	☐ Clear	☐ Brown	☐ Green	☐ Orange	☐ Red
	☐ Yellow				
☐ Turbidity			Severity Level: Moderate		

SAMPLE RESULTS	ACTION LEVEL
pH:	Less than 6 or greater than 9
Total Chlorine:	0.1 mg/L
Detergent: (mg/l)	0.5 mg/L
Total Copper: (mg/l)	0.1 mg/L
Total Phenols: (mg/l)	0.1 mg/L
Ammonia: (mg/l)	0.1 mg/L
Conductivity:	2,000 µS/cm

Potential for Illicit Discharge: Unlikely
Non-Illicit Discharge: None
Other Comments: Outfall has pool of stagnant water but No flow.

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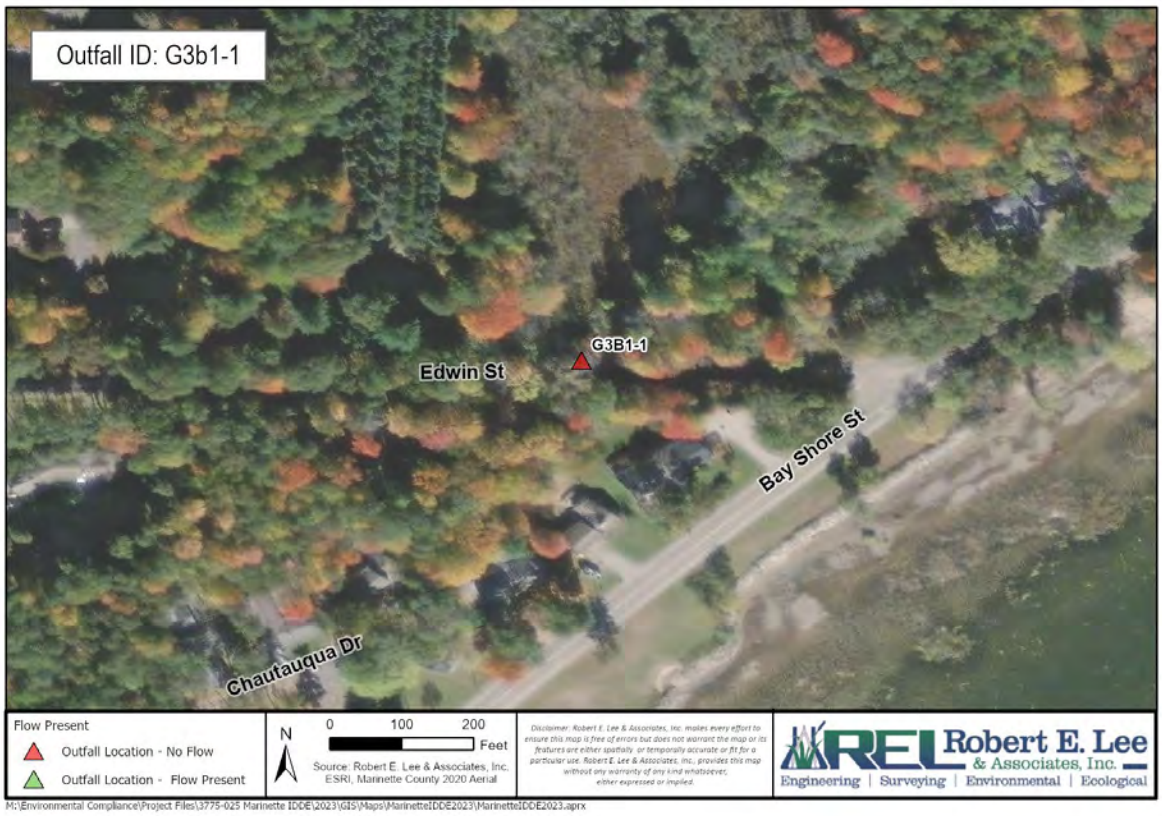
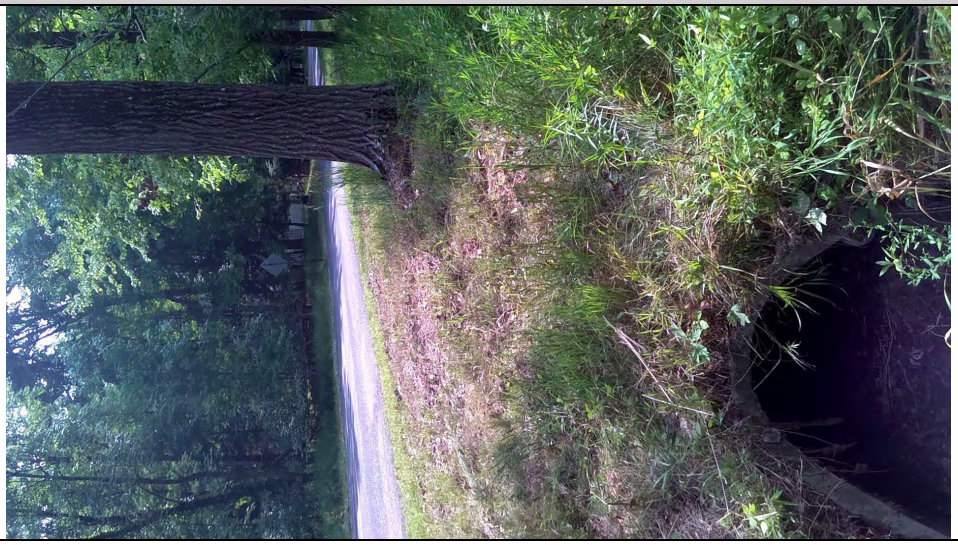
LOCATION MAP



COMMENTS AND IMAGES



View of Edwin Street from the outfall. Photo rotated counter clock-wise.

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MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: D1k-1
Date of Inspection: 10/5/2023 3:06:00 PM	Outfall Type: Major
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 0.19 in.
Location Description: Box culvert on Stearns Drive south of Old Peshtigo Road Lat., Long.: -87.650073, 45.083093	**Temperature (˚C):** 18.8 Weather: Clear Skies Flow: Yes Flow Description: Moderate

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☐ Closed Pipe ☒ Open Pipe	RCP		Diameter (in.): Height (in.): 4848 Width (in.): 96	Yes Water

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion	☐ Peeling Paint	☐ Spalling/Cracking	☐ Chipping
	☐ Pipe separation	☐ Erosion	☐ Other:	
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☒ Pipe Benthic Growth	☒ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☐ Excessive		
☒ Poor Pool Quality	☐ Odors	☒ Colors	☐ Oil Sheen	☐ Suds
	☒ Floatables	☒ Iron Bacteria	☐ Other:	

(FLOWING OUTFALLS ONLY)

☒ Odor	☐ Sewage	☐ Sulfide	☒ Rancid/Sour	☐ Petroleum	☐ Other:
☒ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☒ Other:	
☒ Colors	☐ Clear	☐ Brown	☐ Green	☐ Orange	☐ Red
	☒ Yellow	☒ Gold			

☒ Turbidity 13.75 Severity Level: Faint

SAMPLE RESULTS	ACTION LEVEL
pH: 7.3	Less than 6 or greater than 9
Total Chlorine: 0.00	0.1 mg/L
Detergent: 0.25 (mg/l)	0.5 mg/L
Total Copper: 0.10 (mg/l)	0.1 mg/L
Total Phenols: 0.10(mg/l)	0.1 mg/L
Ammonia: 0.10(mg/l)	0.1 mg/L
Conductivity: 1673	2,000 µS/cm

Potential for Illicit Discharge: Unlikely
Non-Illicit Discharge: None
Other Comments: Yellow color of water potentially skewed some test results.

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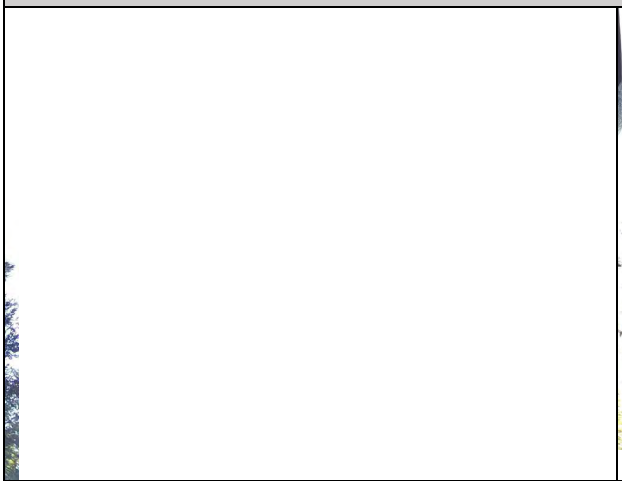
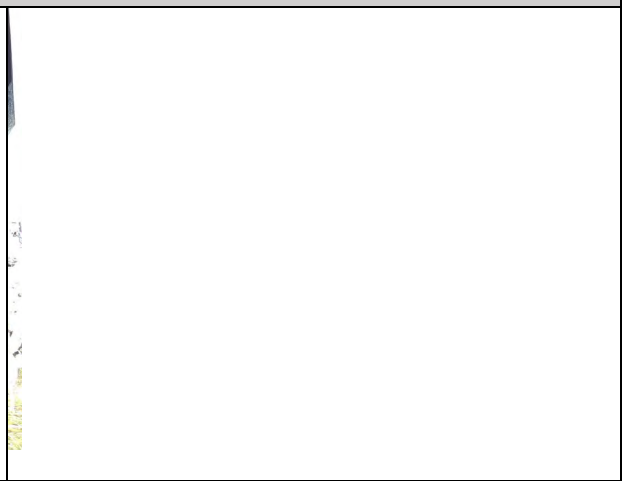
LOCATION MAP

COMMENTS AND IMAGES	
	
View downsteam of box culvert following direction of flow. Photo rotated counter-clockwise.	Flowing portion of outfall where water was collected from. Photo rotated counter-clockwise.

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MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: D1k-4	
Date of Inspection: 10/5/2023 4:04:00 PM	Outfall Type: Major	
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 0.19 in.	
Location Description: Southwest ditch that flows into 4'x8' culvert on Stearns Drive. Lat., Long.: -87.650415, 45.083102	**Temperature (˚C):** 19.5 Weather: Clear Skies	
	Flow: Yes Flow Description: Slow	

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☐ Closed Pipe ☒ Open Pipe	CGRASS		Diameter (in.): Height (in.): Width (in.):	No Sediment

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion	☐ Peeling Paint	☐ Spalling/Cracking	☐ Chipping
	☐ Pipe separation	☐ Erosion	☐ Other:	
☒ Flow Line:	☐ Oily	☐ Paint	☒ Flow Line	☐ Other:
☒ Pipe Benthic Growth	☒ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☐ Excessive		
☒ Poor Pool Quality	☒ Odors	☒ Colors	☐ Oil Sheen	☐ Suds
	☒ Floatables	☒ Iron Bacteria	☐ Other:	

(FLOWING OUTFALLS ONLY)

☒ Odor	☐ Sewage	☐ Sulfide	☒ Rancid/Sour	☐ Petroleum	☐ Other:
☒ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☒ Other:	
☒ Colors	☐ Clear	☐ Brown	☐ Green	☐ Orange	☐ Red
	☒ Yellow	☒ Gold			

☒ Turbidity 12.08 — Severity Level: Faint

SAMPLE RESULTS	ACTION LEVEL
pH: 7.5	Less than 6 or greater than 9
Total Chlorine: 0.00	0.1 mg/L
Detergent: 0.25 (mg/l)	0.5 mg/L
Total Copper: 0.00 (mg/l)	0.1 mg/L
Total Phenols: 0.10(mg/l)	0.1 mg/L
Ammonia: 0.10(mg/l)	0.1 mg/L
Conductivity: 1731	2,000 µS/cm

Potential for Illicit Discharge: Unlikely
Non-Illicit Discharge: None
Other Comments: None

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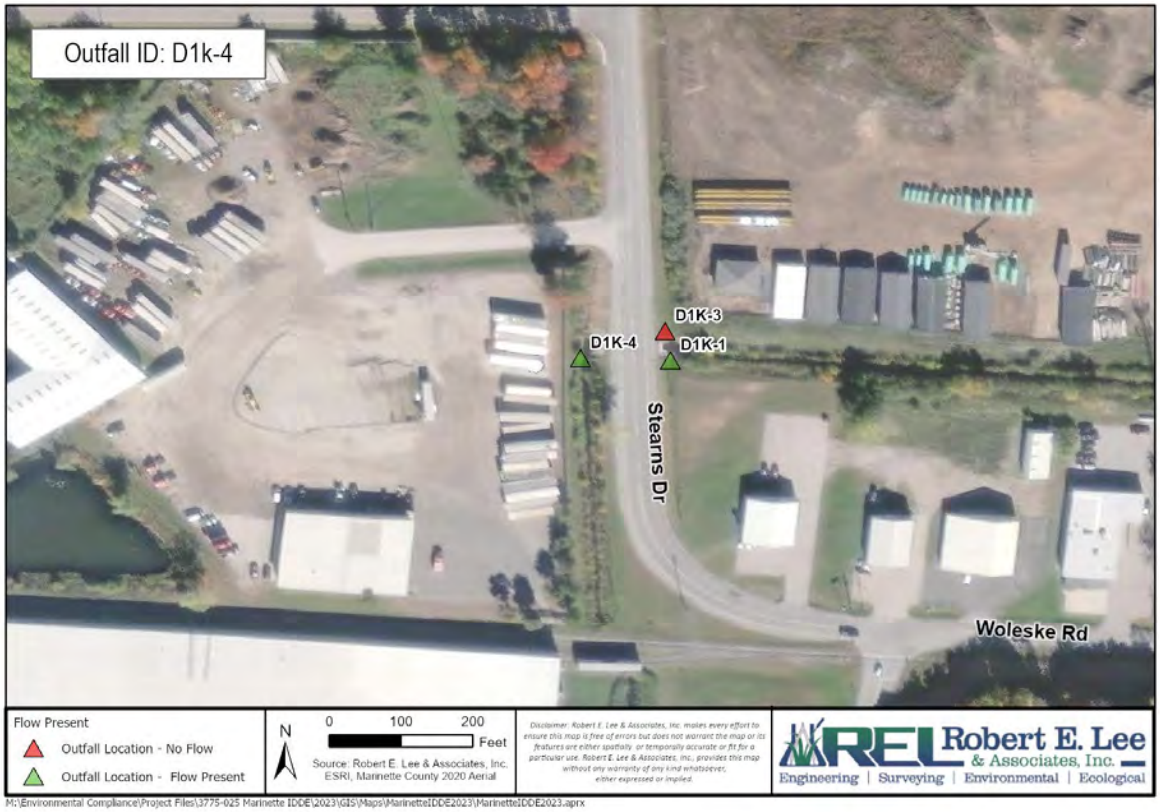
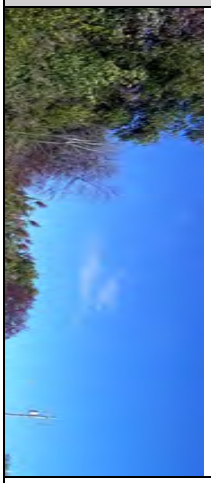
LOCATION MAP



COMMENTS AND IMAGES



View of ditch and box culvert facing North. Photo Rotated.

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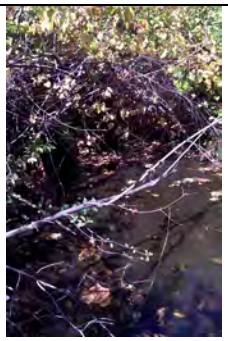
MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: D1j-1	
Date of Inspection: 10/5/2023 5:03:00 PM	Outfall Type: Major	
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 0.19 in.	
Location Description: East side of Industrial Parkway South, south of Biehl Avenue Lat., Long.: -87.643274, 45.082701	**Temperature (˚C):** 21.9 Weather: Clear Skies	
	Flow: Yes Flow Description: Moderate	

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☐ Closed Pipe ☒ Open Pipe	CMP		Diameter (in.): 66 Height (in.): Width (in.):	Yes Water

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion	☐ Peeling Paint	☐ Spalling/Cracking	☐ Chipping
	☐ Pipe separation	☐ Erosion	☐ Other:	
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☒ Pipe Benthic Growth	☒ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☒ Excessive		
☒ Poor Pool Quality	☐ Odors	☒ Colors	☐ Oil Sheen	☐ Suds
	☒ Floatables	☐ Iron Bacteria Sheen	☐ Other:	

(FLOWING OUTFALLS ONLY)

☐ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☐ Colors	☐ Clear	☐ Brown	☐ Green	☐ Orange	☐ Red
	☐ Yellow				

☒ Turbidity 14.10 — Severity Level: Moderate

SAMPLE RESULTS	ACTION LEVEL
pH: 7.4	Less than 6 or greater than 9
Total Chlorine: 0.10	0.1 mg/L
Detergent: 0.25 (mg/l)	0.5 mg/L
Total Copper: 0.00 (mg/l)	0.1 mg/L
Total Phenols: 0.20(mg/l)	0.1 mg/L
Ammonia: 0.40(mg/l)	0.1 mg/L
Conductivity: 1546	2,000 µS/cm

Potential for Illicit Discharge: Possible
Non-Illicit Discharge: Yes
Other Comments: Lots of overgrown vegetation, golden Yellow color of water potentially skewed some test results.

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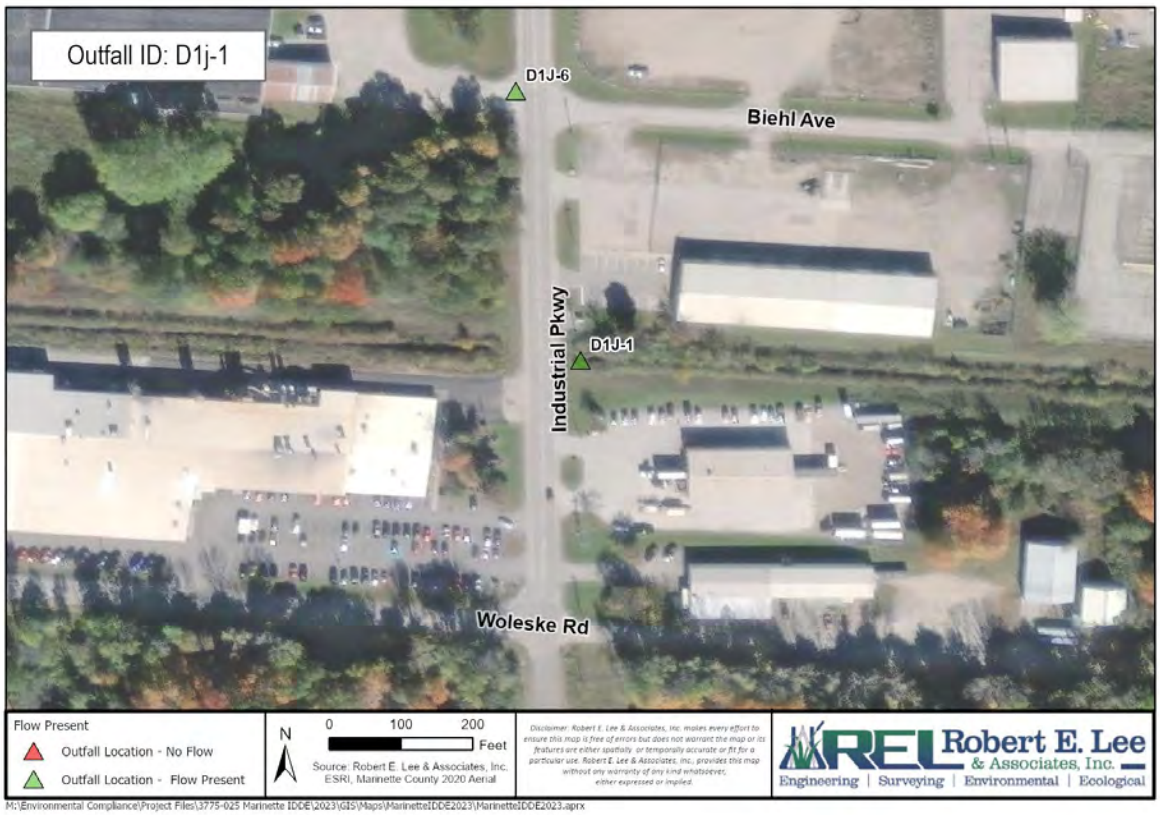
LOCATION MAP



COMMENTS AND IMAGES	
	
View from on top of culvert looking down. Photo Rotated.	View of culvert facing towards Industrial Parkway South, water collected from here. Photo Rotated.

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MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: M2o-1	
Date of Inspection: 8/8/2023 1:25:00 PM	Outfall Type: Major	
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 1.37 in.	
Location Description: Lester and Riverside, larger and center pipe of 3 pipes Lat., Long.: -87.649091, 45.105366	**Temperature (˚C):** 19.7 Weather: Clear Skies	
	Flow: Yes Flow Description: Moderate	

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☐ Closed Pipe ☒ Open Pipe	RCP	Circular	Diameter (in.): 36 Height (in.): Width (in.):	No

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion ☐ Pipe separation	☐ Peeling Paint ☐ Erosion	☐ Spalling/Cracking ☐ Other:	☐ Chipping
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☒ Pipe Benthic Growth	☐ Brown	☐ Orange	☒ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☐ Excessive		
☐ Poor Pool Quality	☐ Odors ☐ Floatables	☐ Colors ☐ Iron Bacteria Sheen	☐ Oil Sheen ☐ Other:	☐ Suds

(FLOWING OUTFALLS ONLY)

☐ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☐ Colors	☐ Clear ☐ Yellow	☐ Brown	☐ Green	☐ Orange	☐ Red

☒ Turbidity 8.28 Severity Level: Faint

SAMPLE RESULTS	ACTION LEVEL
pH: 8.1	Less than 6 or greater than 9
Total Chlorine: 0.00	0.1 mg/L
Detergent: 0.50 (mg/l)	0.5 mg/L
Total Copper: 0.00 (mg/l)	0.1 mg/L
Total Phenols: 0.10(mg/l)	0.1 mg/L
Ammonia: 0.10(mg/l)	0.1 mg/L
Conductivity: 3933	2,000 µS/cm

Potential for Illicit Discharge: Possible
Non-Illicit Discharge: None
Other Comments: Sampled from outfall draining into the river.

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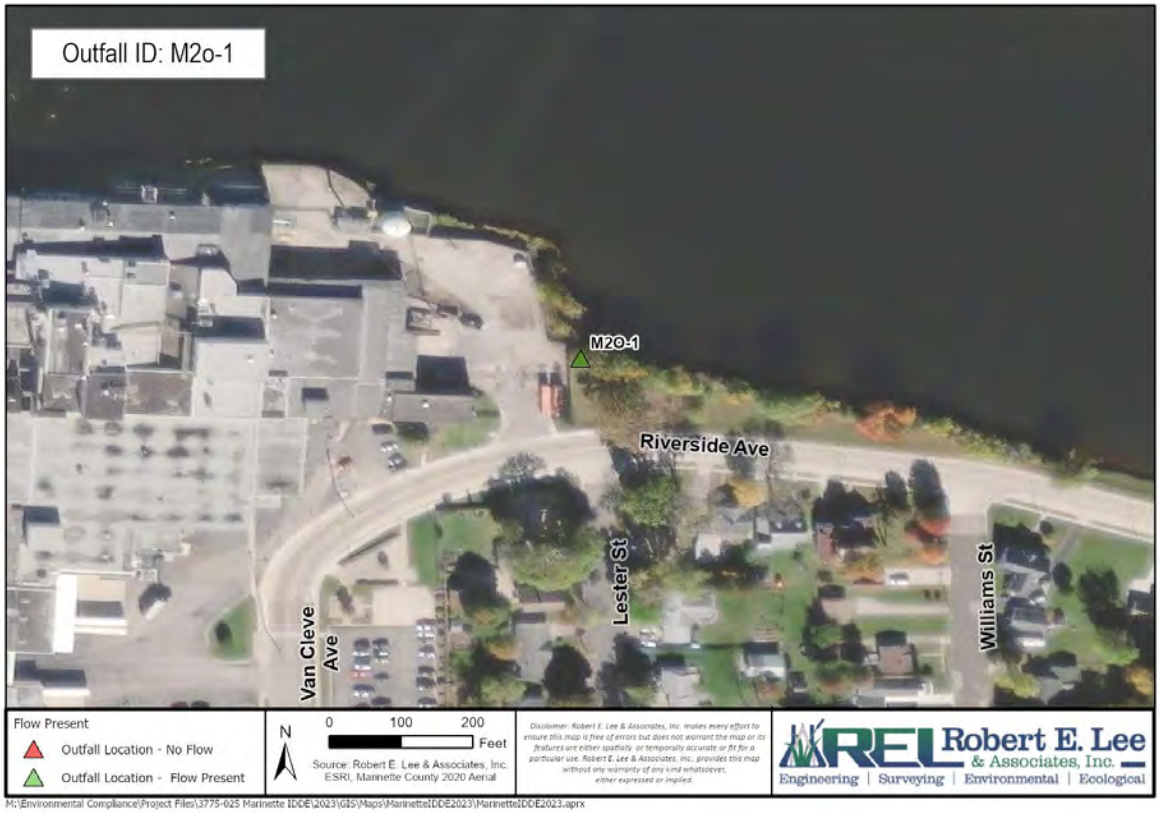
LOCATION MAP



COMMENTS AND IMAGES	
	
M2o-1 pool. Photo rotated counter-clockwise.	Some Green and Brown growth in pipe and flow of outfall. Photo rotated counter-clockwise.

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MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: S1d-2	
Date of Inspection: 8/8/2023 7:10:00 PM	Outfall Type: Minor	
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 1.37 in.	
Location Description: SW ditch, south of culvert Lat., Long.: -87.614300, 45.083958	**Temperature (˚C):** 23.5 Weather: Clear Skies Flow: Yes Flow Description: Slow	

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☐ Closed Pipe ☒ Open Pipe	CGRASS		Diameter (in.): Height (in.): Width (in.):	Yes Water

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion	☐ Peeling Paint	☐ Spalling/Cracking	☐ Chipping
	☐ Pipe separation	☐ Erosion	☐ Other:	
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☒ Pipe Benthic Growth	☐ Brown	☐ Orange	☒ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☐ Excessive		
☒ Poor Pool Quality	☐ Odors	☒ Colors	☐ Oil Sheen	☐ Suds
	☒ Floatables	☒ Iron Bacteria	☐ Other:	

(FLOWING OUTFALLS ONLY)

☒ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☒ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☒ Other: Organic	
☒ Colors	☐ Clear	☐ Brown	☐ Green	☐ Orange	☐ Red
	☒ Yellow				

☒ Turbidity 52.53 Severity Level: Faint

SAMPLE RESULTS	ACTION LEVEL
pH: 7.5	Less than 6 or greater than 9
Total Chlorine: 0.00	0.1 mg/L
Detergent: 0.25 (mg/l)	0.5 mg/L
Total Copper: 0.10 (mg/l)	0.1 mg/L
Total Phenols: 0.10(mg/l)	0.1 mg/L
Ammonia: 4.00(mg/l)	0.1 mg/L
Conductivity: 970	2,000 µS/cm

Potential for Illicit Discharge: Possible
Non-Illicit Discharge: None
Other Comments: Strong Yellowish gold color could have an effect on high ammonia results.

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LOCATION MAP

COMMENTS AND IMAGES

Looking south along Lincoln Street. Photo rotated counter-clockwise.

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MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: M2j-1	
Date of Inspection: 8/8/2023 2:59:00 PM	Outfall Type: Minor	
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 1.37 in.	
Location Description: Outfall and forst manhole submerged, sample collected at Stephenson and Hattie Ct manhole Lat., Long.: -87.633230, 45.101136	**Temperature (˚C):** 18.9 Weather: Clear Skies Flow: Yes Flow Description: Slow	

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☒ Closed Pipe ☐ Open Pipe	RCP	Circular	Diameter (in.): 30 Height (in.): Width (in.):	Yes Water

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion ☐ Pipe separation	☐ Peeling Paint ☐ Erosion	☐ Spalling/Cracking ☐ Other:	☐ Chipping
☒ Flow Line:	☐ Oily	☐ Paint	☒ Flow Line	☐ Other:
☐ Pipe Benthic Growth	☐ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☐ Excessive		
☒ Poor Pool Quality	☒ Odors ☐ Floatables	☐ Colors ☐ Iron Bacteria Sheen	☐ Oil Sheen ☐ Other:	☒ Suds

(FLOWING OUTFALLS ONLY)

☒ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☒ Colors	☐ Clear ☒ Yellow	☐ Brown	☐ Green	☐ Orange	☐ Red

☒ Turbidity 10.54 Severity Level: Moderate

SAMPLE RESULTS	ACTION LEVEL
pH: 7.6	Less than 6 or greater than 9
Total Chlorine: 0.00	0.1 mg/L
Detergent: 0.25 (mg/l)	0.5 mg/L
Total Copper: 0.00 (mg/l)	0.1 mg/L
Total Phenols: 0.10(mg/l)	0.1 mg/L
Ammonia: 0.50(mg/l)	0.1 mg/L
Conductivity: 2223	2,000 µS/cm

Potential for Illicit Discharge: Possible
Non-Illicit Discharge: None
Other Comments: Moderate Petroleum Odor, sampled from second manhole.

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LOCATION MAP

COMMENTS AND IMAGES

First manhole upstream in bike lane on Riverside Ave, Fully submerged, strong Odor. Photo rotated counter-clockwise.

Sampled at upstream manhole on Stephenson Street and Hattie Court. Photo rotated counter-clockwise.

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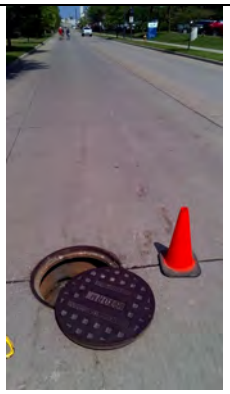
MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: M2f-1
Date of Inspection: 8/8/2023 4:56:00 PM	Outfall Type: Major
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 1.37 in.
Location Description: Screened at upslope manhole at Ludington and Stanton. Actual MS4 outfall is the end of city storm line on Johnson Control property near gate across from guard shack. This line was submerged with No apparent surface flow. Lat., Long.: -87.619816, 45.095162	**Temperature (˚C):** 21.0 Weather: Clear Skies Flow: Yes Flow Description: Slow



OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☒ Closed Pipe ☐ Open Pipe	RCP	Circular	Diameter (in.): 42 Height (in.): Width (in.):	Yes Water

PHYSICAL INDICATORS

☒ Outflow Damage:	☐ Corrosion ☒ Pipe separation	☐ Peeling Paint ☐ Erosion	☐ Spalling/Cracking ☐ Other:	☐ Chipping
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☐ Pipe Benthic Growth	☐ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☐ Excessive		
☒ Poor Pool Quality	☐ Odors ☒ Floatables	☐ Colors ☒ Iron Bacteria Sheen	☐ Oil Sheen ☐ Other:	☒ Suds

(FLOWING OUTFALLS ONLY)

☒ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☒ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☒ Other: Sewage,	
☒ Colors	☐ Clear ☒ Yellow	☐ Brown	☐ Green	☐ Orange	☐ Red
☒ Turbidity 33.74			Severity Level: Faint		

SAMPLE RESULTS	ACTION LEVEL
pH: 7.3	Less than 6 or greater than 9
Total Chlorine: 0.00	0.1 mg/L
Detergent: 0.25 (mg/l)	0.5 mg/L
Total Copper: 0.00 (mg/l)	0.1 mg/L
Total Phenols: 0.00(mg/l)	0.1 mg/L
Ammonia: 5.00(mg/l)	0.1 mg/L
Conductivity: 2348	2,000 µS/cm

Potential for Illicit Discharge: Likely
Non-Illicit Discharge: None
Other Comments: Upstream manhole at Stanton Street & Ludington Street. Strong Odor and high ammonia.

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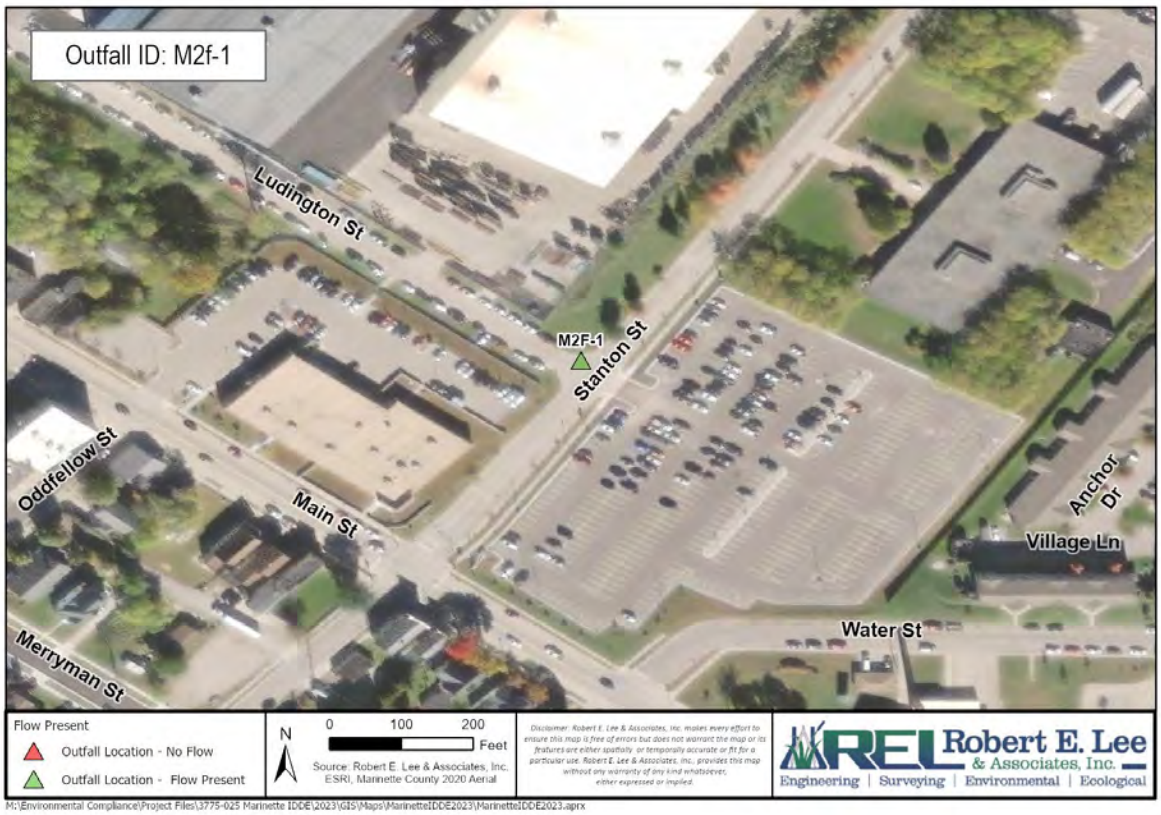
LOCATION MAP



COMMENTS AND IMAGES

Outfall located between guard shack and railroad tracks. Photo rotated counter-clockwise.

Upslope manhole at Ludington and Stanton with flow. Photo rotated counter-clockwise.

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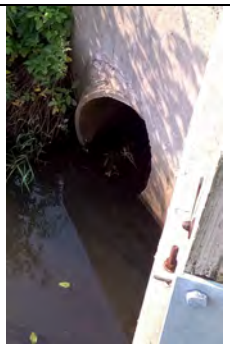
MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: D1c-2	
Date of Inspection: 8/9/2023 1:42:00 PM	Outfall Type: Minor	
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 1.37 in.	
Location Description: Outfall into Major ditch from south, east side of Shore Drive Lat., Long.: -87.619256, 45.075134	**Temperature (˚C):** 20.1 Weather: Clear Skies Flow: Yes Flow Description: Slow	

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☒ Closed Pipe ☐ Open Pipe	RCP	Circular	Diameter (in.): 27 Height (in.): Width (in.):	Yes Water

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion ☐ Pipe separation	☐ Peeling Paint ☐ Erosion	☐ Spalling/Cracking ☐ Other:	☐ Chipping
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☐ Pipe Benthic Growth	☐ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☐ Excessive		
☐ Poor Pool Quality	☐ Odors ☐ Floatables	☐ Colors ☐ Iron Bacteria Sheen	☐ Oil Sheen ☐ Other:	☐ Suds

(FLOWING OUTFALLS ONLY)

☐ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☐ Colors	☐ Clear ☐ Yellow	☐ Brown ☐ Gold	☐ Green	☐ Orange	☐ Red

☒ Turbidity 3.90 Severity Level: Faint

SAMPLE RESULTS	ACTION LEVEL
pH: 7.7	Less than 6 or greater than 9
Total Chlorine: 0.10	0.1 mg/L
Detergent: 0.25 (mg/l)	0.5 mg/L
Total Copper: 0.00 (mg/l)	0.1 mg/L
Total Phenols: 0.10(mg/l)	0.1 mg/L
Ammonia: 0.20(mg/l)	0.1 mg/L
Conductivity: 951	2,000 µS/cm

Potential for Illicit Discharge: Unlikely
Non-Illicit Discharge: None
Other Comments: Sampled from upstream manhole on Shore Drive

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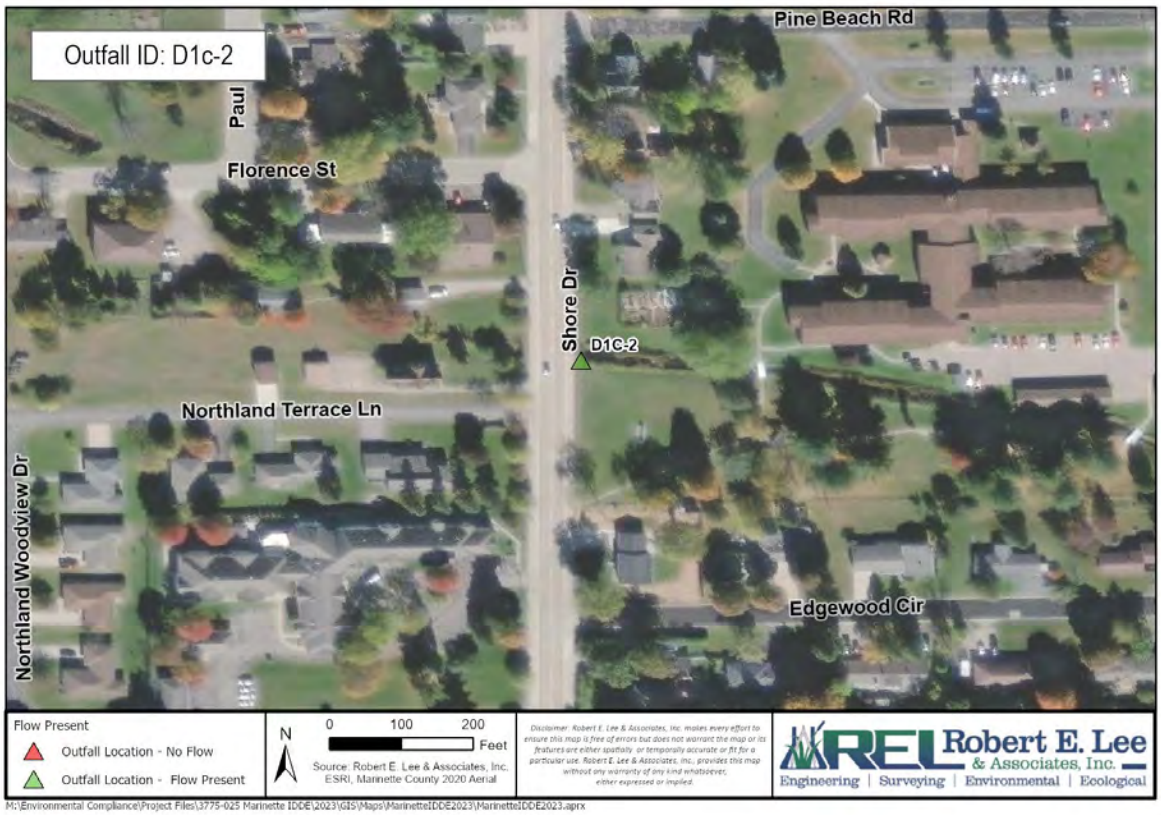
LOCATION MAP



COMMENTS AND IMAGES	
	
Upstream manhole in the middle of the Northbound lane on shore drive.	View North on Shore Drive from upstream manhole.

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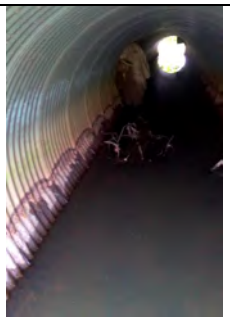
MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: D1j-6	
Date of Inspection: 8/9/2023 4:33:00 PM	Outfall Type: Major	
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 1.37 in.	
Location Description: 24" ties into 66" culvert across Industrial Parkway South, upstream manhole 350' to the North Lat., Long.: -87.643521, 45.083726	**Temperature (˚C):** 23.1 Weather: Clear Skies Flow: Yes Flow Description: Slow	

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☒ Closed Pipe ☐ Open Pipe	RCP	Circular	Diameter (in.): 24 Height (in.): Width (in.):	Yes Water

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion	☐ Peeling Paint	☐ Spalling/Cracking	☐ Chipping
	☐ Pipe separation	☐ Erosion	☒ Other: Appeared blocked with debris at outfall.	
☒ Flow Line:	☐ Oily	☐ Paint	☒ Flow Line	☐ Other:
☐ Pipe Benthic Growth	☐ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☐ Excessive		
☒ Poor Pool Quality	☐ Odors	☒ Colors	☐ Oil Sheen	☐ Suds
	☐ Floatables	☐ Iron Bacteria Sheen	☐ Other:	

(FLOWING OUTFALLS ONLY)

☐ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☒ Colors	☐ Clear	☐ Brown	☐ Green	☐ Orange	☐ Red
	☒ Yellow				
☒ Turbidity 9.09			Severity Level: Faint		

SAMPLE RESULTS	ACTION LEVEL
pH: 8.3	Less than 6 or greater than 9
Total Chlorine: 0.30	0.1 mg/L
Detergent: 0.25 (mg/l)	0.5 mg/L
Total Copper: 0.10 (mg/l)	0.1 mg/L
Total Phenols: 0.20(mg/l)	0.1 mg/L
Ammonia: 0.40(mg/l)	0.1 mg/L
Conductivity: 1691	2,000 µS/cm

Potential for Illicit Discharge: Possible
Non-Illicit Discharge: None
Other Comments: Sampled from upstream manhole.

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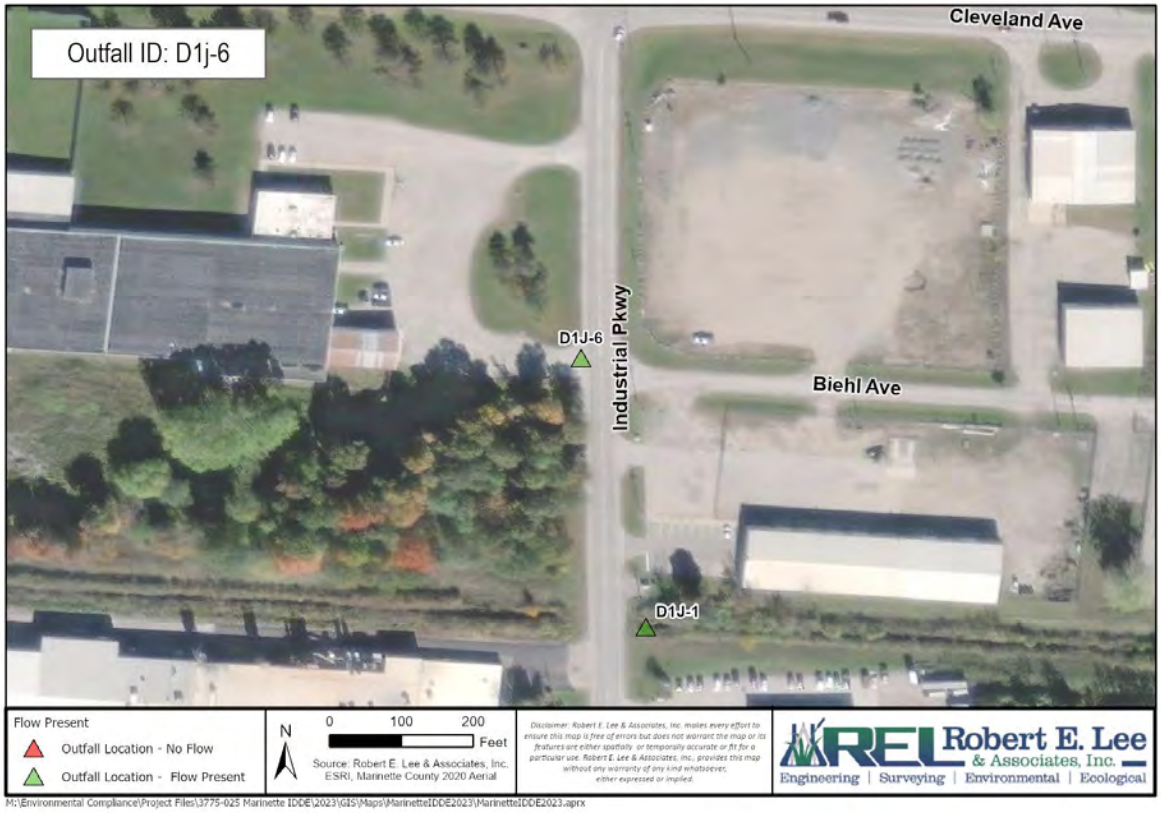
LOCATION MAP



COMMENTS AND IMAGES	
	
Upstream manhole.	View towards outfall from manhole.

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MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: O1a2-1	
Date of Inspection: 8/9/2023 6:18:00 PM	Outfall Type: Minor	
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 1.37 in.	
Location Description: SW ditch on the corner of West Russell Street and Hemlock Street. Lat., Long.: -87.604068, 45.087363	**Temperature (˚C):** Weather: Clear Skies	
	Flow: No Flow Description:	

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☐ Closed Pipe ☒ Open Pipe	CGRASS		Diameter (in.): Height (in.): Width (in.):	No

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion	☐ Peeling Paint	☐ Spalling/Cracking	☐ Chipping
	☐ Pipe separation	☐ Erosion	☐ Other:	
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☐ Pipe Benthic Growth	☐ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☐ Excessive		
☐ Poor Pool Quality	☐ Odors	☐ Colors	☐ Oil Sheen	☐ Suds
	☐ Floatables	☐ Iron Bacteria Sheen	☐ Other:	

(FLOWING OUTFALLS ONLY)

☐ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☐ Colors	☐ Clear	☐ Brown	☐ Green	☐ Orange	☐ Red
	☐ Yellow	☐ Gold			
☐ Turbidity			Severity Level:		

SAMPLE RESULTS	ACTION LEVEL
pH:	Less than 6 or greater than 9
Total Chlorine:	0.1 mg/L
Detergent: (mg/l)	0.5 mg/L
Total Copper: (mg/l)	0.1 mg/L
Total Phenols: (mg/l)	0.1 mg/L
Ammonia: (mg/l)	0.1 mg/L
Conductivity:	2,000 µS/cm

Potential for Illicit Discharge: Unlikely
Non-Illicit Discharge: None
Other Comments: SW ditch, has no water in it.

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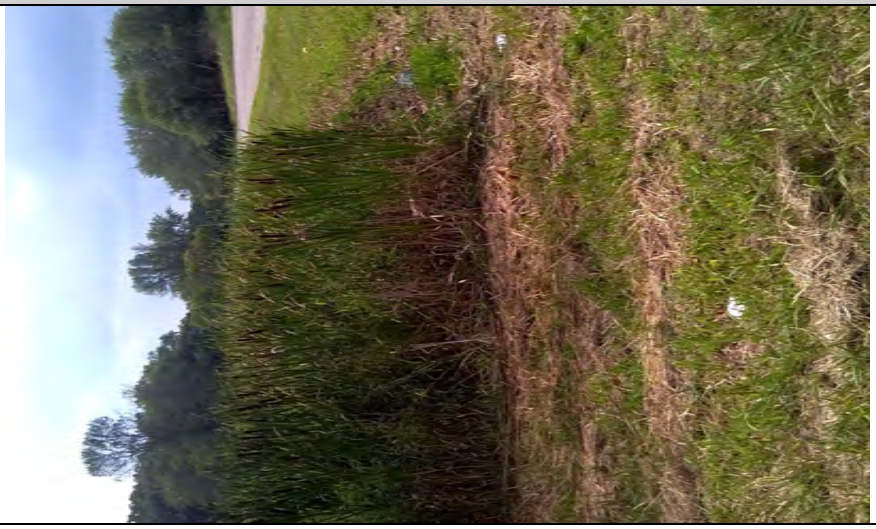
LOCATION MAP

COMMENTS AND IMAGES



No Photo Comment. Photo rotated counter-clockwise.

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MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: G6-1
Date of Inspection: 8/9/2023 7:22:00 PM	Outfall Type: Minor
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 0.19 in.
Location Description: Ogden Street, south of West Bay Shore Street Lat., Long.: -87.596889, 45.084245	**Temperature (˚C):** Weather: Clear Skies Flow: No Flow Description:

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☒ Closed Pipe ☐ Open Pipe	RCP	Circular	Diameter (in.): 24 Height (in.): Width (in.):	Yes Water

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion ☐ Pipe separation	☐ Peeling Paint ☐ Erosion	☐ Spalling/Cracking ☐ Other:	☐ Chipping
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☐ Pipe Benthic Growth	☐ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☐ Excessive		
☒ Poor Pool Quality	☐ Odors ☒ Floatables	☒ Colors ☐ Iron Bacteria Sheen	☐ Oil Sheen ☐ Other:	☐ Suds

(FLOWING OUTFALLS ONLY)

☐ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☐ Colors	☐ Clear	☐ Brown	☐ Green	☐ Orange	☐ Red
	☐ Yellow				
☐ Turbidity			Severity Level:		

SAMPLE RESULTS	ACTION LEVEL
pH:	Less than 6 or greater than 9
Total Chlorine:	0.1 mg/L
Detergent: (mg/l)	0.5 mg/L
Total Copper: (mg/l)	0.1 mg/L
Total Phenols: (mg/l)	0.1 mg/L
Ammonia: (mg/l)	0.1 mg/L
Conductivity:	2,000 µS/cm

Potential for Illicit Discharge: Unlikely
Non-Illicit Discharge: None
Other Comments: Outfall and both upstream manholes submerged, No flow observed.

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LOCATION MAP

COMMENTS AND IMAGES	
	
No Photo Comment.	No Photo Comment.

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MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: O1a1-2
Date of Inspection: 8/9/2023 7:45:00 PM	Outfall Type: Minor
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 0.19 in.
Location Description: SW ditch on river side of West Bay Shore Street Lat., Long.: -87.602441, 45.082717	**Temperature (˚C):** Weather: Clear Skies Flow: No Flow Description:

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☐ Closed Pipe ☒ Open Pipe	CGRASS		Diameter (in.): Height (in.): Width (in.):	No

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion ☐ Pipe separation	☐ Peeling Paint ☐ Erosion	☐ Spalling/Cracking ☐ Other:	☐ Chipping
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☐ Pipe Benthic Growth	☐ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☒ Excessive		
☐ Poor Pool Quality	☐ Odors ☐ Floatables	☐ Colors ☐ Iron Bacteria Sheen	☐ Oil Sheen ☐ Other:	☐ Suds

(FLOWING OUTFALLS ONLY)

☐ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☐ Colors	☐ Clear ☐ Yellow	☐ Brown	☐ Green	☐ Orange	☐ Red

☐ Turbidity Severity Level:

SAMPLE RESULTS	ACTION LEVEL
pH:	Less than 6 or greater than 9
Total Chlorine:	0.1 mg/L
Detergent: (mg/l)	0.5 mg/L
Total Copper: (mg/l)	0.1 mg/L
Total Phenols: (mg/l)	0.1 mg/L
Ammonia: (mg/l)	0.1 mg/L
Conductivity:	2,000 µS/cm

Potential for Illicit Discharge: Unlikely
Non-Illicit Discharge: None
Other Comments: SW ditch next to entrance to Kopish Miron Boyle Faller Nature Walk, ditch has No apparent water in it.

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LOCATION MAP

COMMENTS AND IMAGES

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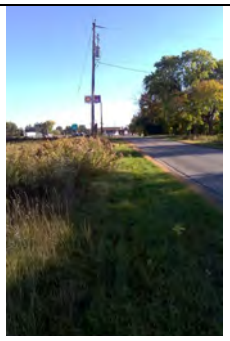
MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: L1a2-1	
Date of Inspection: 10/5/2023 1:48:00 PM	Outfall Type: Minor	
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 0.19 in.	
Location Description: North/Northeast ditch along the US Hwy 41 side of Old Peshtigo Road Lat., Long.: -87.667230, 45.077825	**Temperature (˚C):** Weather: Clear Skies Flow: No Flow Description:	

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☐ Closed Pipe ☒ Open Pipe	CGRASS		Diameter (in.): Height (in.): Width (in.):	No

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion ☐ Pipe separation	☐ Peeling Paint ☐ Erosion	☐ Spalling/Cracking ☐ Other:	☐ Chipping
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☐ Pipe Benthic Growth	☐ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☐ Excessive		
☐ Poor Pool Quality	☐ Odors ☐ Floatables	☐ Colors ☐ Iron Bacteria Sheen	☐ Oil Sheen ☐ Other:	☐ Suds

(FLOWING OUTFALLS ONLY)

☐ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☐ Colors	☐ Clear ☐ Yellow	☐ Brown	☐ Green	☐ Orange	☐ Red
☐ Turbidity			Severity Level:		

SAMPLE RESULTS	ACTION LEVEL
pH:	Less than 6 or greater than 9
Total Chlorine:	0.1 mg/L
Detergent: (mg/l)	0.5 mg/L
Total Copper: (mg/l)	0.1 mg/L
Total Phenols: (mg/l)	0.1 mg/L
Ammonia: (mg/l)	0.1 mg/L
Conductivity:	2,000 µS/cm

Potential for Illicit Discharge: Unlikely
Non-Illicit Discharge: None
Other Comments:

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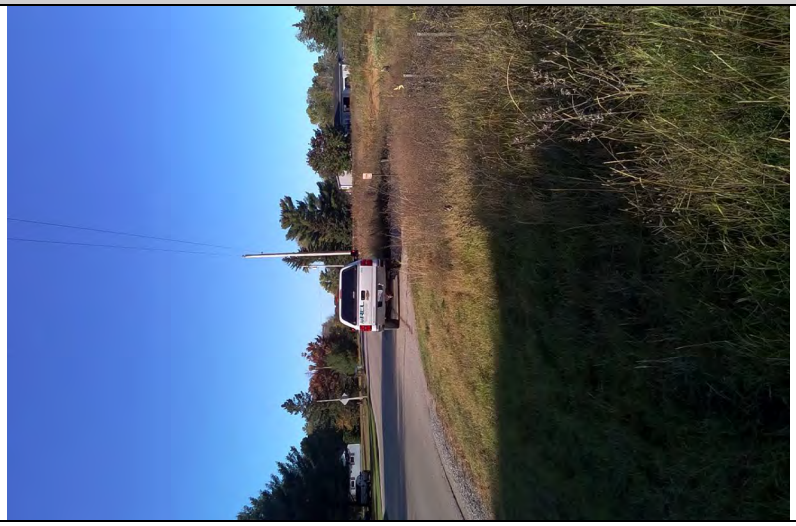
LOCATION MAP

COMMENTS AND IMAGES



View south/southwest along Old Peshtigo Road. Photo rotated counter-clockwise.

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MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: L1a2-2	
Date of Inspection: 10/5/2023 2:01:00 PM	Outfall Type: Minor	
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 0.19 in.	
Location Description: North/Northeast ditch along the Prevea Health side of Old Peshtigo Road. Lat., Long.: -87.666911, 45.077735	**Temperature (˚C):** Weather: Clear Skies	
	Flow: No Flow Description:	

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☐ Closed Pipe ☒ Open Pipe	CGRASS		Diameter (in.): Height (in.): Width (in.):	No

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion ☐ Pipe separation	☐ Peeling Paint ☐ Erosion	☐ Spalling/Cracking ☐ Other:	☐ Chipping
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☐ Pipe Benthic Growth	☐ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☐ Excessive		
☐ Poor Pool Quality	☐ Odors ☐ Floatables	☐ Colors ☐ Iron Bacteria Sheen	☐ Oil Sheen ☐ Other:	☐ Suds

(FLOWING OUTFALLS ONLY)

☐ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☐ Colors	☐ Clear ☐ Yellow	☐ Brown	☐ Green	☐ Orange	☐ Red

☐ Turbidity Severity Level:

SAMPLE RESULTS	ACTION LEVEL
pH:	Less than 6 or greater than 9
Total Chlorine:	0.1 mg/L
Detergent: (mg/l)	0.5 mg/L
Total Copper: (mg/l)	0.1 mg/L
Total Phenols: (mg/l)	0.1 mg/L
Ammonia: (mg/l)	0.1 mg/L
Conductivity:	2,000 µS/cm

Potential for Illicit Discharge: Unlikely
Non-Illicit Discharge: None
Other Comments: Ditch in front yard of W1439 Old Peshtigo Road.

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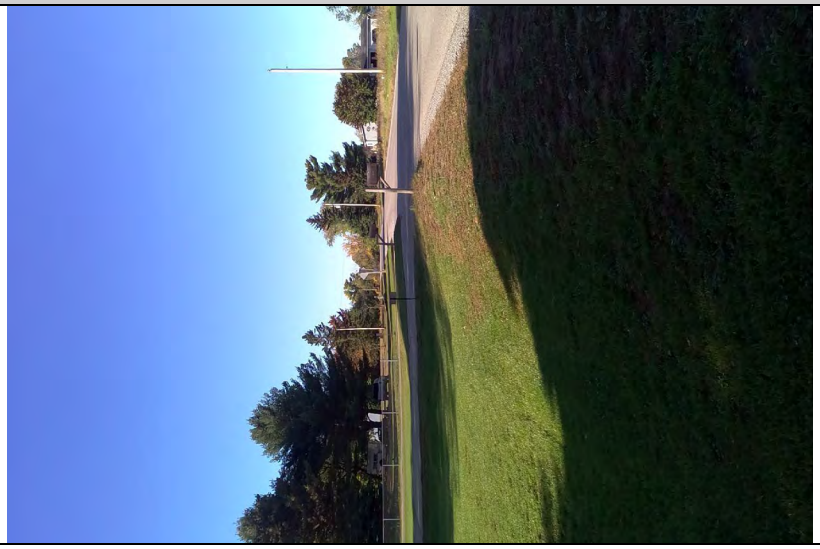
LOCATION MAP

COMMENTS AND IMAGES



View south/southwest along Old Peshtigo Road. Photo rotated counter-clockwise.

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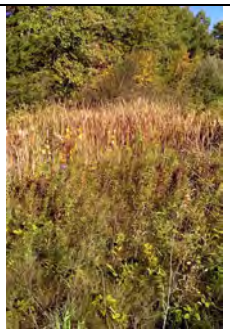
MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: L1a1-1	
Date of Inspection: 10/5/2023 2:30:00 PM	Outfall Type: Minor	
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 0.19 in.	
Location Description: Ditch to the Northwest of where Gallagher Road and Angwell Drive meet and their ditches connect. Lat., Long.: -87.662565, 45.076547	**Temperature (˚C):** Weather: Clear Skies	
	Flow: No Flow Description:	

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☐ Closed Pipe ☒ Open Pipe	CGRASS		Diameter (in.): Height (in.): Width (in.):	No

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion	☐ Peeling Paint	☐ Spalling/Cracking	☐ Chipping
	☐ Pipe separation	☐ Erosion	☐ Other:	
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☐ Pipe Benthic Growth	☐ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☐ Excessive		
☐ Poor Pool Quality	☐ Odors	☐ Colors	☐ Oil Sheen	☐ Suds
	☐ Floatables	☐ Iron Bacteria Sheen	☐ Other:	

(FLOWING OUTFALLS ONLY)

☐ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☐ Colors	☐ Clear ☐ Yellow	☐ Brown	☐ Green	☐ Orange	☐ Red

☐ Turbidity Severity Level:

SAMPLE RESULTS	ACTION LEVEL
pH:	Less than 6 or greater than 9
Total Chlorine:	0.1 mg/L
Detergent: (mg/l)	0.5 mg/L
Total Copper: (mg/l)	0.1 mg/L
Total Phenols: (mg/l)	0.1 mg/L
Ammonia: (mg/l)	0.1 mg/L
Conductivity:	2,000 µS/cm

Potential for Illicit Discharge: Unlikely
Non-Illicit Discharge: None
Other Comments: None

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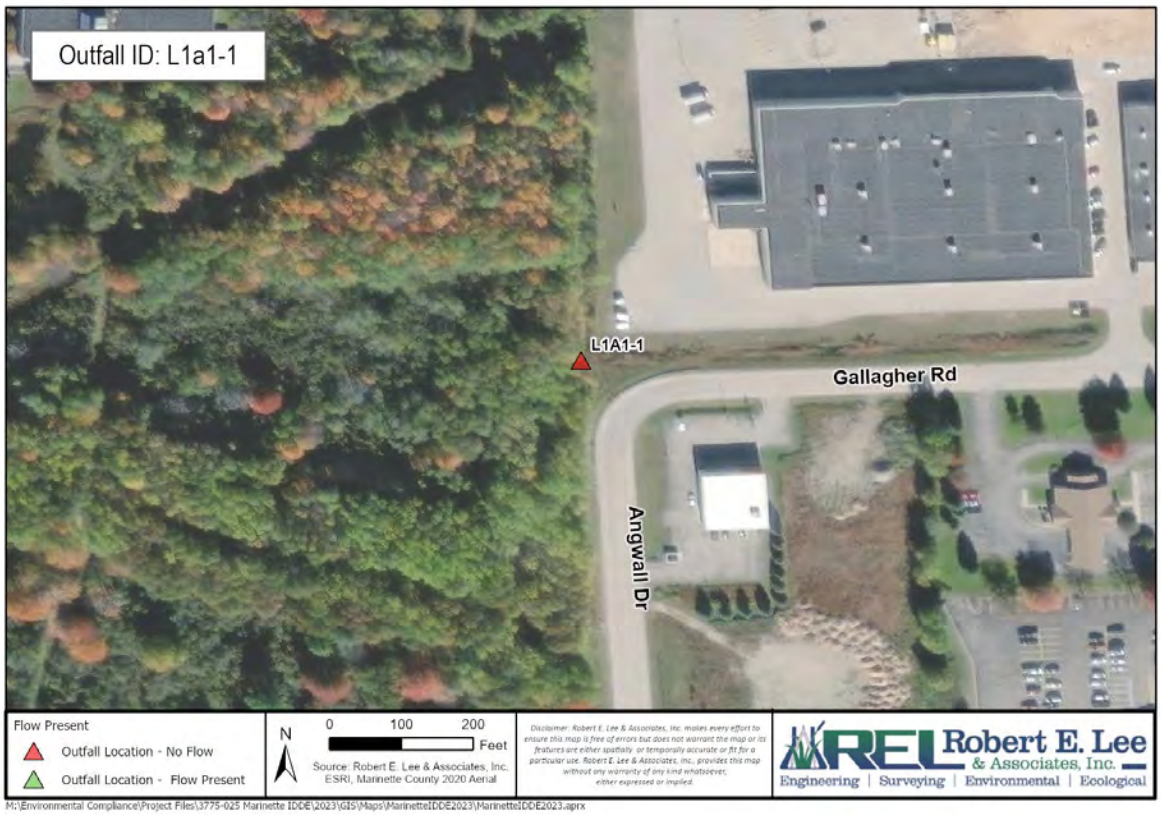
LOCATION MAP



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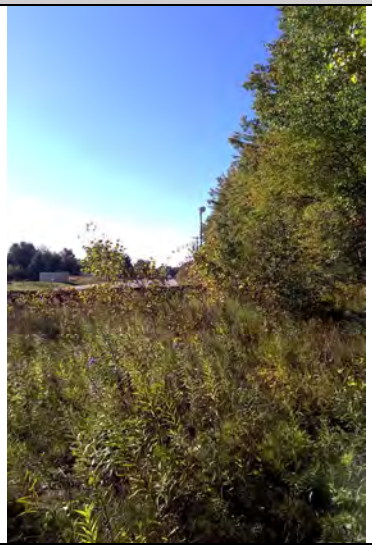	
View of ditch facing south towards Angwall Drive	View of ditch facing east towards Gallagher Road

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MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: D1k-3	
Date of Inspection: 10/5/2023 3:57:00 PM	Outfall Type: Major	
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 0.19 in.	
Location Description: Stearns Drive NE ditch Lat., Long.: -87.650093, 45.083205	**Temperature (˚C):** Weather: Clear Skies	
	Flow: No Flow Description:	

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☐ Closed Pipe ☒ Open Pipe	CGRASS		Diameter (in.): Height (in.): Width (in.):	No

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion	☐ Peeling Paint	☐ Spalling/Cracking	☐ Chipping
	☐ Pipe separation	☐ Erosion	☐ Other:	
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☐ Pipe Benthic Growth	☐ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☐ Excessive		
☐ Poor Pool Quality	☐ Odors	☐ Colors	☐ Oil Sheen	☐ Suds
	☐ Floatables	☐ Iron Bacteria Sheen	☐ Other:	

(FLOWING OUTFALLS ONLY)

☐ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☐ Colors	☐ Clear	☐ Brown	☐ Green	☐ Orange	☐ Red
	☐ Yellow				

☐ Turbidity Severity Level:

SAMPLE RESULTS	ACTION LEVEL
pH:	Less than 6 or greater than 9
Total Chlorine:	0.1 mg/L
Detergent: (mg/l)	0.5 mg/L
Total Copper: (mg/l)	0.1 mg/L
Total Phenols: (mg/l)	0.1 mg/L
Ammonia: (mg/l)	0.1 mg/L
Conductivity:	2,000 µS/cm

Potential for Illicit Discharge: Unlikely
Non-Illicit Discharge: None
Other Comments: None

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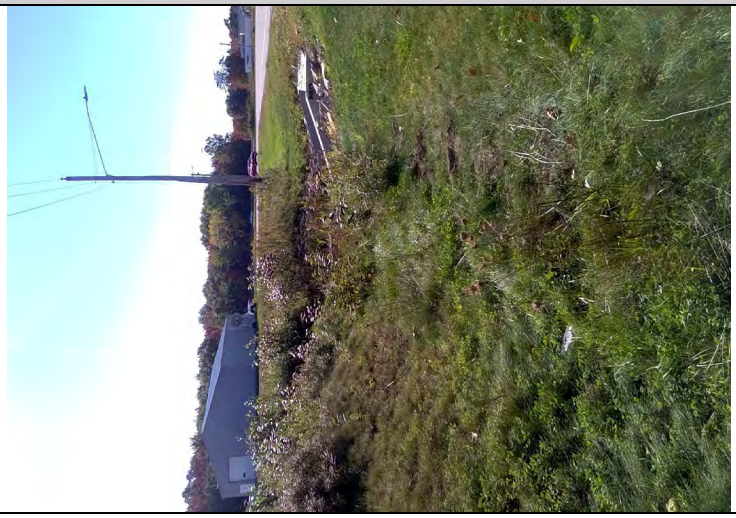
LOCATION MAP

M:\Environmental Compliance\Project Files\3775-025 Marinette IDDE\2023\GIS\Maps\MarinetteIDDE2023\MarinetteIDDE2023.aprx

COMMENTS AND IMAGES



View of ditch facing south towards box culvert. Photo rotated counter-clockwise.

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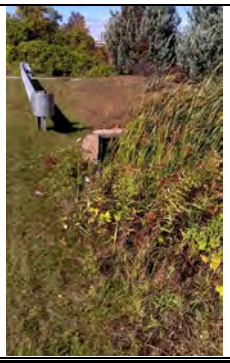
MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: D1k3-1	
Date of Inspection: 10/5/2023 4:43:00 PM	Outfall Type: Major	
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 0.19 in.	
Location Description: 4'x8' box culvert outlet at the end of Old Peshtigo Court Lat., Long.: -87.653349, 45.085840	**Temperature (˚C):** Weather: Clear Skies Flow: No Flow Description:	

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☐ Closed Pipe ☒ Open Pipe	RCP		Diameter (in.): Height (in.): 48 Width (in.): 96	No

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion ☐ Pipe separation	☐ Peeling Paint ☐ Erosion	☐ Spalling/Cracking ☐ Other:	☐ Chipping
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☐ Pipe Benthic Growth	☐ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☒ Excessive		
☐ Poor Pool Quality	☐ Odors ☐ Floatables	☐ Colors ☐ Iron Bacteria Sheen	☐ Oil Sheen ☐ Other:	☐ Suds

(FLOWING OUTFALLS ONLY)

☐ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☐ Colors	☐ Clear ☐ Yellow	☐ Brown	☐ Green	☐ Orange	☐ Red
☐ Turbidity	Severity Level:				

SAMPLE RESULTS	ACTION LEVEL
pH:	Less than 6 or greater than 9
Total Chlorine:	0.1 mg/L
Detergent: (mg/l)	0.5 mg/L
Total Copper: (mg/l)	0.1 mg/L
Total Phenols: (mg/l)	0.1 mg/L
Ammonia: (mg/l)	0.1 mg/L
Conductivity:	2,000 µS/cm

Potential for Illicit Discharge: Unlikely
Non-Illicit Discharge: Yes
Other Comments: Lots of cattails and brush in ditch make visibility of culvert limited

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LOCATION MAP

COMMENTS AND IMAGES	
	
View facing east from the box culvert.	Dry ditch with few small puddles of stagnant water.

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MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: D1i-1	
Date of Inspection: 10/5/2023 5:42:00 PM	Outfall Type: Major	
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 0.19 in.	
Location Description: Northeast of garage site, culvert running North/south on the south side of Cleveland Avenue. Lat., Long.: -87.637975, 45.084685	**Temperature (˚C):** Weather: Clear Skies	
	Flow: No Flow Description:	

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☐ Closed Pipe ☒ Open Pipe	RCP	Circular	Diameter (in.): 18 Height (in.): Width (in.):	No

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion ☐ Pipe separation	☐ Peeling Paint ☐ Erosion	☐ Spalling/Cracking ☐ Other:	☐ Chipping
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☐ Pipe Benthic Growth	☐ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☒ Excessive		
☐ Poor Pool Quality	☐ Odors ☐ Floatables	☐ Colors ☐ Iron Bacteria Sheen	☐ Oil Sheen ☐ Other:	☐ Suds

(FLOWING OUTFALLS ONLY)

☐ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☐ Colors	☐ Clear ☐ Yellow	☐ Brown	☐ Green	☐ Orange	☐ Red

☐ Turbidity Severity Level:

SAMPLE RESULTS	ACTION LEVEL
pH:	Less than 6 or greater than 9
Total Chlorine:	0.1 mg/L
Detergent: (mg/l)	0.5 mg/L
Total Copper: (mg/l)	0.1 mg/L
Total Phenols: (mg/l)	0.1 mg/L
Ammonia: (mg/l)	0.1 mg/L
Conductivity:	2,000 µS/cm

Potential for Illicit Discharge: Unlikely
Non-Illicit Discharge: Yes
Other Comments: Overgrown vegetation surrounding culvert and along ditch.

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LOCATION MAP

COMMENTS AND IMAGES

View of culvert from above the culvert facing south, Cleveland Avenue behind. Photo rotated counter-clockwise.

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MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: D2-1	
Date of Inspection: 10/5/2023 6:00PM	Outfall Type: Major	
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 0.19 in.	
Location Description: 30" pipe draining into stream (near the North side of the rectangular culvert outlet), east side of Pierce Avenue, Northeast of school. Lat., Long.: -87.629338, 45.083702	**Temperature (˚C):** Weather: Clear Skies Flow: No Flow Description:	

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☒ Closed Pipe ☐ Open Pipe	RCP	Circular	Diameter (in.): 30 Height (in.): Width (in.):	Yes Water

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion ☐ Pipe separation	☐ Peeling Paint ☐ Erosion	☐ Spalling/Cracking ☐ Other:	☐ Chipping
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☐ Pipe Benthic Growth	☐ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☐ Excessive		
☐ Poor Pool Quality	☐ Odors ☐ Floatables	☐ Colors ☐ Iron Bacteria Sheen	☐ Oil Sheen ☐ Other:	☐ Suds

(FLOWING OUTFALLS ONLY)

☐ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☐ Colors	☐ Clear ☐ Yellow	☐ Brown	☐ Green	☐ Orange	☐ Red
☐ Turbidity			Severity Level:		

SAMPLE RESULTS	ACTION LEVEL
pH:	Less than 6 or greater than 9
Total Chlorine:	0.1 mg/L
Detergent: (mg/l)	0.5 mg/L
Total Copper: (mg/l)	0.1 mg/L
Total Phenols: (mg/l)	0.1 mg/L
Ammonia: (mg/l)	0.1 mg/L
Conductivity:	2,000 µS/cm

Potential for Illicit Discharge: Unlikely
Non-Illicit Discharge: None
Other Comments: None

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LOCATION MAP

COMMENTS AND IMAGES

View of culvert facing west towards Pierce Avenue.

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MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: M2c-1	
Date of Inspection: 10/5/2023 6:29:00 PM	Outfall Type: Minor	
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours	
Location Description: Submerged culvert in river leads to manholes running along the nprth side of Water Street. Lat., Long.: -87.599826, 45.092281	**Temperature (˚C):** Weather: Clear Skies	
	Flow: No Flow Description:	

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☒ Closed Pipe ☐ Open Pipe	RCP	Circular	Diameter (in.): 30 Height (in.): Width (in.):	Yes Water

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion ☐ Pipe separation	☐ Peeling Paint ☐ Erosion	☐ Spalling/Cracking ☐ Other:	☐ Chipping
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☐ Pipe Benthic Growth	☐ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☐ Excessive		
☐ Poor Pool Quality	☐ Odors ☐ Floatables	☐ Colors ☐ Iron Bacteria Sheen	☐ Oil Sheen ☒ Other: Plastic bottles and other trash in manholes.	☐ Suds

(FLOWING OUTFALLS ONLY)

☐ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☐ Colors	☐ Clear ☐ Yellow	☐ Brown	☐ Green	☐ Orange	☐ Red

☐ Turbidity Severity Level:

SAMPLE RESULTS	ACTION LEVEL
pH:	Less than 6 or greater than 9
Total Chlorine:	0.1 mg/L
Detergent: (mg/l)	0.5 mg/L
Total Copper: (mg/l)	0.1 mg/L
Total Phenols: (mg/l)	0.1 mg/L
Ammonia: (mg/l)	0.1 mg/L
Conductivity:	2,000 µS/cm

Potential for Illicit Discharge: Unlikely
Non-Illicit Discharge: None
Other Comments: First and second upstream manholes Fully submerged, third upstream manhole Partially submerged with no flow.

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LOCATION MAP

COMMENTS AND IMAGES	
	
Fully submerged second upstream manhole, facing east towards first upstream manhole.	Partially submerged third upstream manhole slightly North of 2nd Street and Water Street.

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MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: M2d-1	
Date of Inspection: 10/5/2023 7:07:00 PM	Outfall Type: Minor	
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 0.19 in.	
Location Description: Culvert draining into stream about 200 feet off of Water Street leading to upsteam manhole on the corner of 3rd Street and Water Street. Lat., Long.: -87.603307, 45.092703	**Temperature (˚C):** Weather: Clear Skies	
	Flow: No Flow Description:	

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☒ Closed Pipe	RCP	Circular	Diameter (in.): 30	Yes Water
☐ Open Pipe			Height (in.):	
			Width (in.):	

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion	☐ Peeling Paint	☐ Spalling/Cracking	☐ Chipping
	☐ Pipe separation	☐ Erosion	☐ Other:	
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☐ Pipe Benthic Growth	☐ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☐ Excessive		
☒ Poor Pool Quality	☐ Odors	☐ Colors	☐ Oil Sheen	☐ Suds
	☐ Floatables	☐ Iron Bacteria Sheen	☐ Other:	

(FLOWING OUTFALLS ONLY)

☐ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☐ Colors	☐ Clear	☐ Brown	☐ Green	☐ Orange	☐ Red
	☐ Yellow				

☐ Turbidity Severity Level:

SAMPLE RESULTS	ACTION LEVEL
pH:	Less than 6 or greater than 9
Total Chlorine:	0.1 mg/L
Detergent: (mg/l)	0.5 mg/L
Total Copper: (mg/l)	0.1 mg/L
Total Phenols: (mg/l)	0.1 mg/L
Ammonia: (mg/l)	0.1 mg/L
Conductivity:	2,000 µS/cm

Potential for Illicit Discharge: Unlikely
Non-Illicit Discharge: None
Other Comments: None

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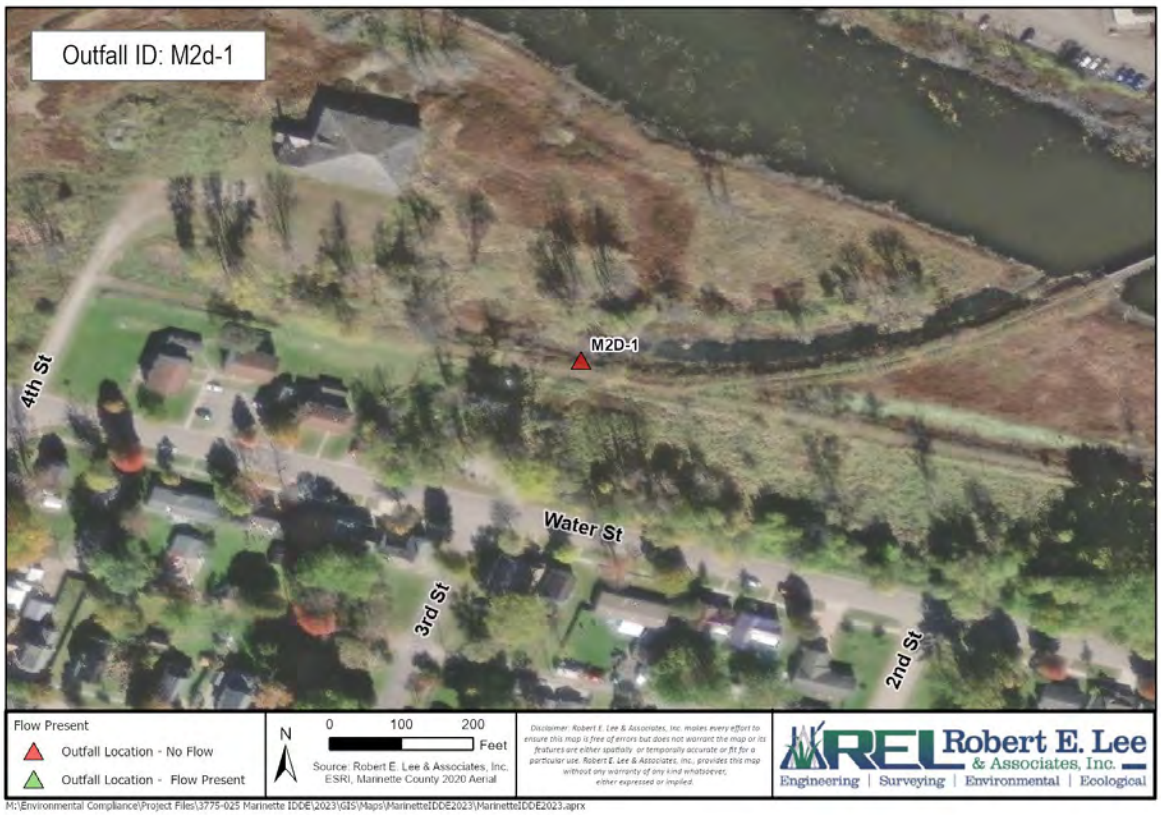
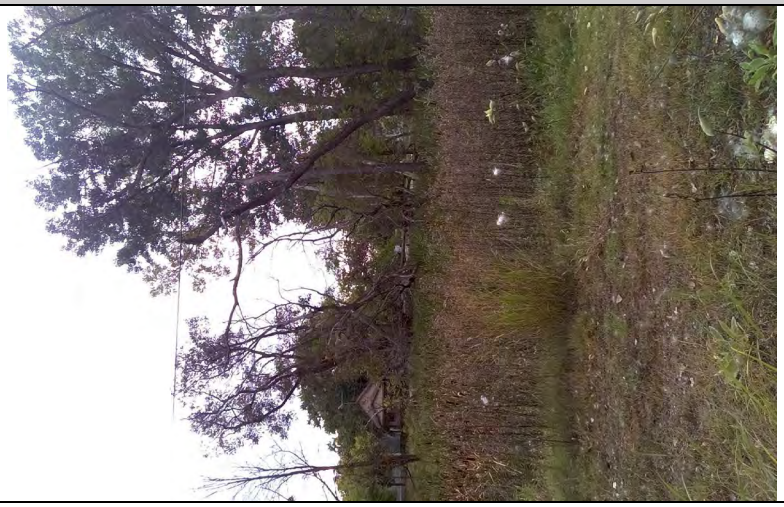
LOCATION MAP



COMMENTS AND IMAGES



View from culvert facing south towards Water Street. Photo rotated counter-clockwise.

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MS4 OUTFALL FIELD SCREENING REPORT

Permittee Name: City of Marinette	Outfall ID: M2e1-1
Date of Inspection: 10/5/2023 7:31 PM	Outfall Type: Minor
Inspector Name: Jonah Oettinger	Last Rainfall: >72 Hours 0.19 in.
Location Description: Culvert leading to upstream manhole located Northeast of 6th Street and Water Street. Lat., Long.: -87.608625, 45.094172	**Temperature (˚C):** Weather: Clear Skies
	Flow: No Flow Description:

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUMBERGED
☒ Closed Pipe ☐ Open Pipe	RCP	Circular	Diameter (in.): 30 Height (in.): Width (in.):	No

PHYSICAL INDICATORS

☐ Outflow Damage:	☐ Corrosion	☐ Peeling Paint	☐ Spalling/Cracking	☐ Chipping
	☐ Pipe separation	☐ Erosion	☐ Other:	
☐ Flow Line:	☐ Oily	☐ Paint	☐ Flow Line	☐ Other:
☐ Pipe Benthic Growth	☐ Brown	☐ Orange	☐ Green	☐ Other:
☐ Abnormal Vegetation	☐ Inhibited	☐ Excessive		
☐ Poor Pool Quality	☐ Odors	☐ Colors	☐ Oil Sheen	☐ Suds
	☐ Floatables	☐ Iron Bacteria Sheen	☐ Other:	

(FLOWING OUTFALLS ONLY)

☐ Odor	☐ Sewage	☐ Sulfide	☐ Rancid/Sour	☐ Petroleum	☐ Other:
☐ Floatables	☐ Sewage	☐ Suds	☐ Petroleum	☐ Other:	
☐ Colors	☐ Clear	☐ Brown	☐ Green	☐ Orange	☐ Red
	☐ Yellow				

☐ Turbidity Severity Level:

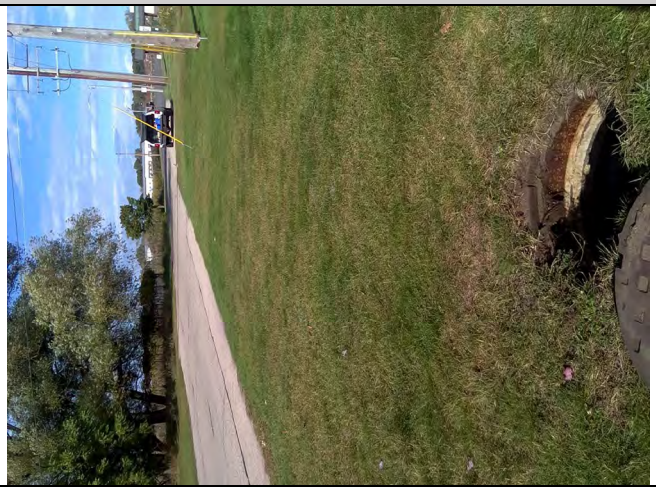
SAMPLE RESULTS	ACTION LEVEL
pH:	Less than 6 or greater than 9
Total Chlorine:	0.1 mg/L
Detergent: (mg/l)	0.5 mg/L
Total Copper: (mg/l)	0.1 mg/L
Total Phenols: (mg/l)	0.1 mg/L
Ammonia: (mg/l)	0.1 mg/L
Conductivity:	2,000 µS/cm

Potential for Illicit Discharge: Unlikely
Non-Illicit Discharge: None
Other Comments: Culvert outfall is Fully submerged, screened from upstream manhole.

City of Marinette
1905 Hall Ave
Marinette, WI 54143
(715) 732-5120

Robert E. Lee & Associates, Inc.
1250 Centennial Centre Boulevard | Hobart, Wisconsin 54155
920-662-9641 | info@releeinc.com | releeinc.com

LOCATION MAP

COMMENTS AND IMAGES

View from upstream manhole facing North towards outfall. Photo rotated counter-clockwise.