STORMWATER
Projects Update

Presented to

UTILITIES COMMITTEE

JUNE 9TH , 2015

Appleton's Implementation Plan

- 2014
  - Preliminary Engineering of Northland Pond (DONE)
  - Evaluate Stormwater Utility Credit Policy (DONE)
  - Preliminary Engineering of Leona Street Pond, including evaluation of enhanced Phosphorus treatment (DONE)
  - Purchase Land for Northland Pond (DONE)
  - Continue discussion with WDOT re: 441 project (DONE)
  - Start on requirements of new Permit (DONE)
- 2015
  - Final design/permitting of Northland Pond (In Progress)
  - Work with Counties to clarify credit (In Progress)
  - Evaluate potential Mud Creek project (DONE)
  - Relocate public storm sewer at WWTP to address Illicit Discharge (In Progress)

Appleton's Implementation Plan

- 2016
  - Solicit bids for Northland Pond (Likely Delayed into 2017)
  - Work with WDOT to clarify credit
- 2017
  - Construct Northland Pond (Likely Delayed in 2018)
  - Evaluate possibility of adding private street sweeping contract to supplement City staff
  - Final Design and Purchase Land for Leona Street Pond
- 2018
  - Construct Leona Street Pond
  - Possibly construct pond with WDOT 441 Project

Appleton's Proposed Strategy

Each Year

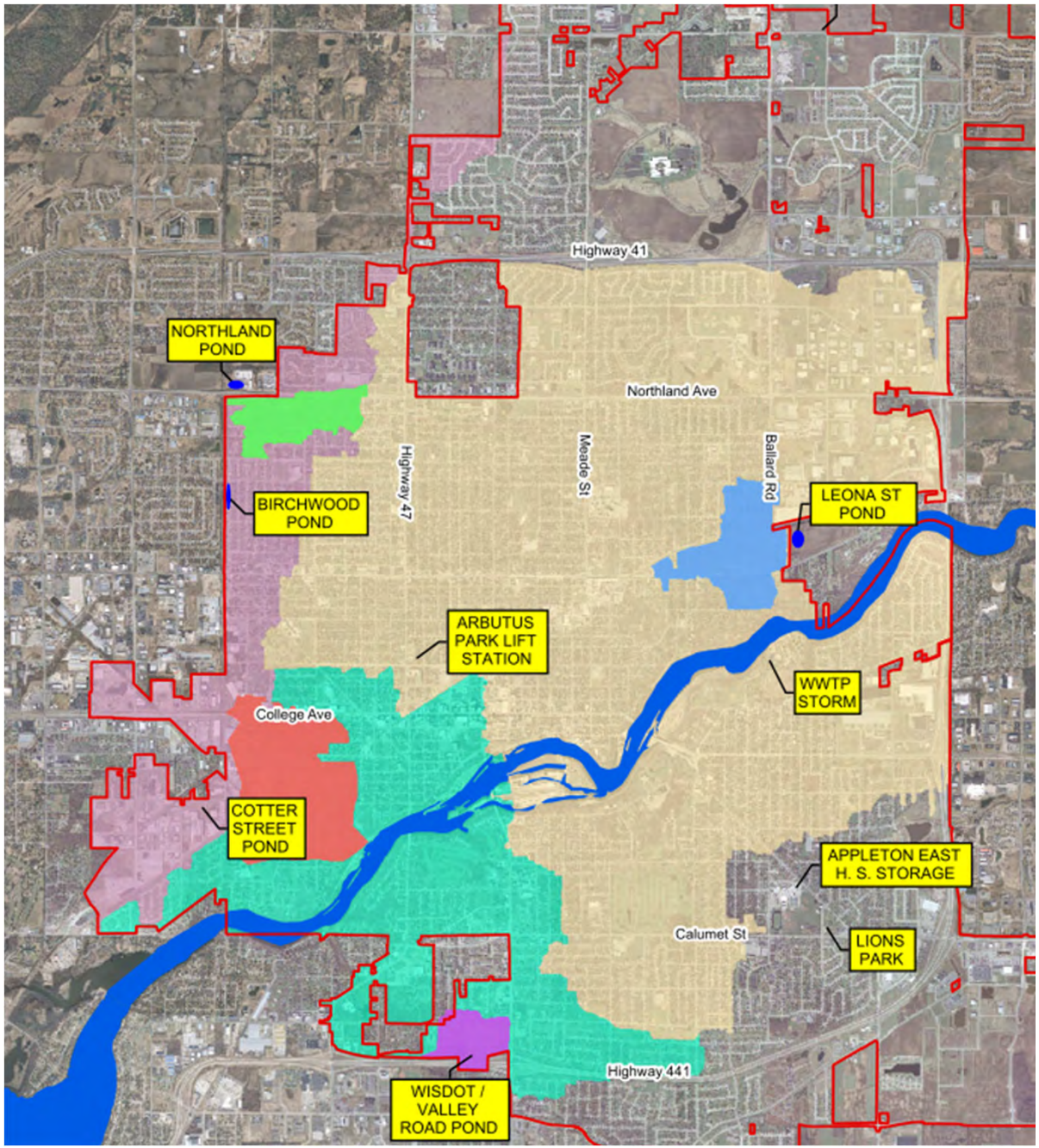
- Continue to implement the other items in the Permit
- Continue to operate and maintain existing practices
- Monitor studies, technology and regulations
- Watch for and act on opportunities

NR 216 Permit

- Public Education and Outreach
  - Northeast Wisconsin Stormwater Consortium (NEWSC)
  - Plan update needed
- Public Involvement and Participation
  - Tied to Public Education and Outreach
  - Example: April 25, 2015 River Cleanup
- Illicit Discharge Detection and Elimination
  - On-going field screening
  - Ordinance Update
- Construction Site Pollution Control
  - Ordinance and Program update

NR 216 Permit

- Post-Construction Stormwater Management
  - Ordinance and Program update
- Pollution Prevention
  - 2 requirements added to the new permit
  - Additional reporting required
  - Update underway
  - Also updating site specific SWPPP's
- Stormwater Quality Management
  - City-wide SWMP update fall 2014
- Storm Sewer System Map and Annual Report

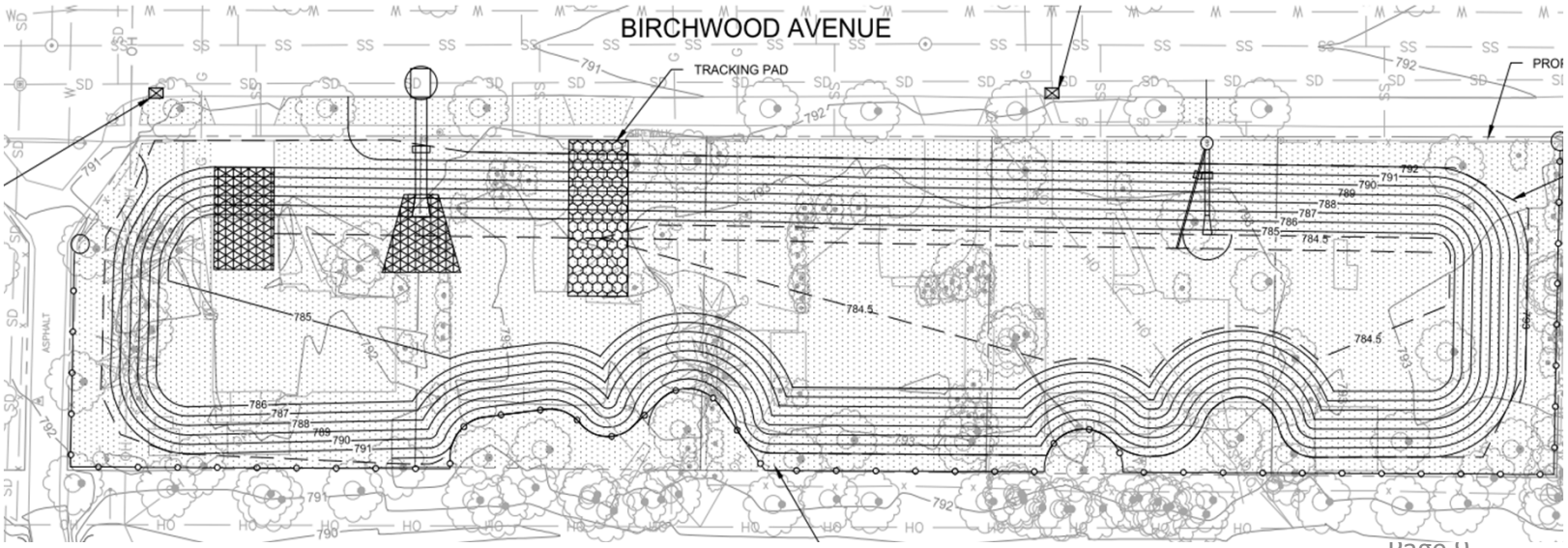

NORTHLAND POND
BIRCHWOOD POND
ARBUTUS PARK LIFT STATION
COTTER STREET POND
WISDOT / VALLEY ROAD POND
LEONA ST POND
WWTP STORM
APPLETON EAST H. S. STORAGE
LIONS PARK
Highway 41
Northland Ave
Meade St
Ballard Rd
Highway 47
College Ave
Calumet St
Highway 441

Capital Projects

- Birchwood Pond
- Northland Pond
- Lions Park
- Cotter Street
- Storm sewer relocation at Wastewater Treatment Plant
- Arbutus Park Lift Station
- Appleton East HS Stormwater Storage
- WISDOT/Valley Road Pond
- Leona Street Pond
- PaveDrain Permeable Pavement
- Storm sewer upgrades prior to street reconstruction

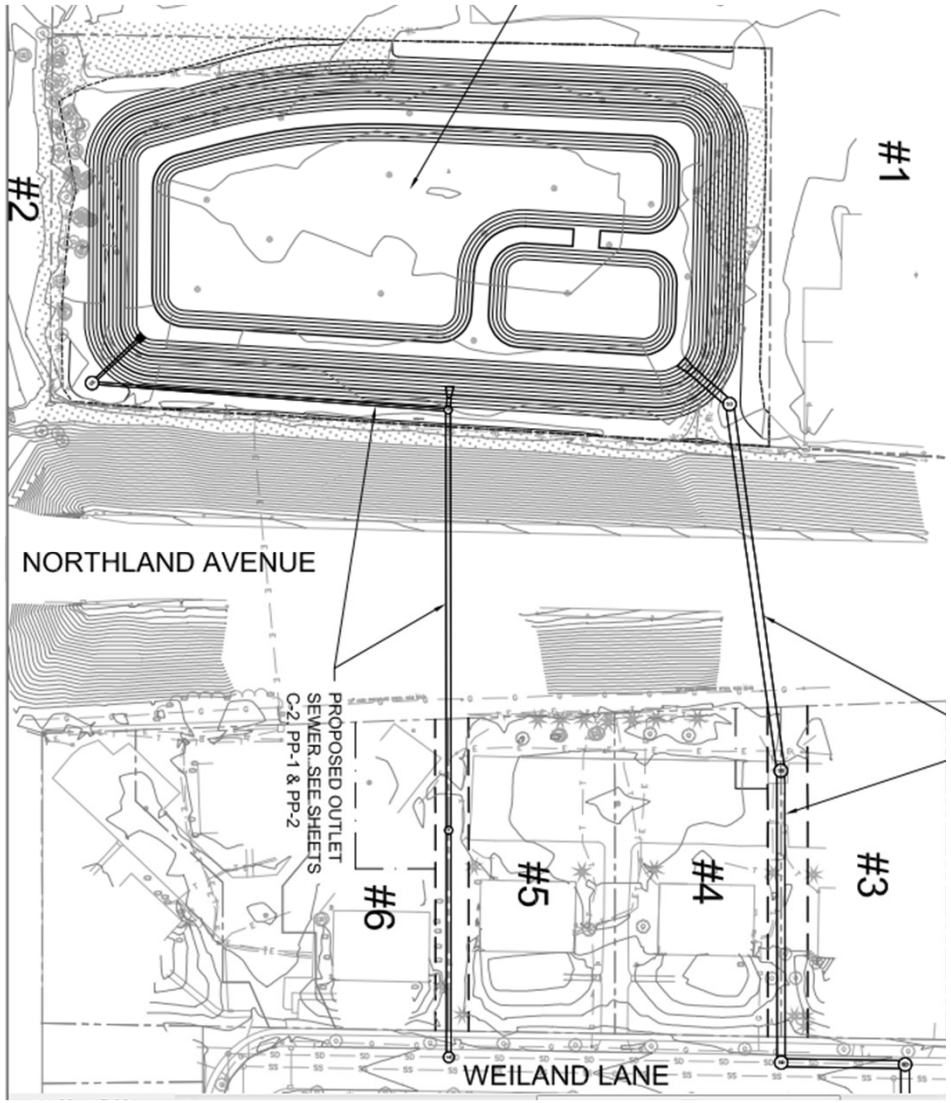
BIRCHWOOD POND

- Phase I of West Wisconsin Stormwater Study
- City Purchased Four Properties in 2014
- Construction Started Spring 2015
- Final Restoration Awaiting Drier Conditions
- Anticipate Completion July 2015



NORTHLAND POND

- Phase 2 of W. Wisc. Study
- Prelim Design Complete
- Final Design In Progress
- Looking for site to accept Low Hazard Grant of Exemption Soils
- Disposal site(s) needed to obtain DNR permit
- Bidding delayed (2016?)

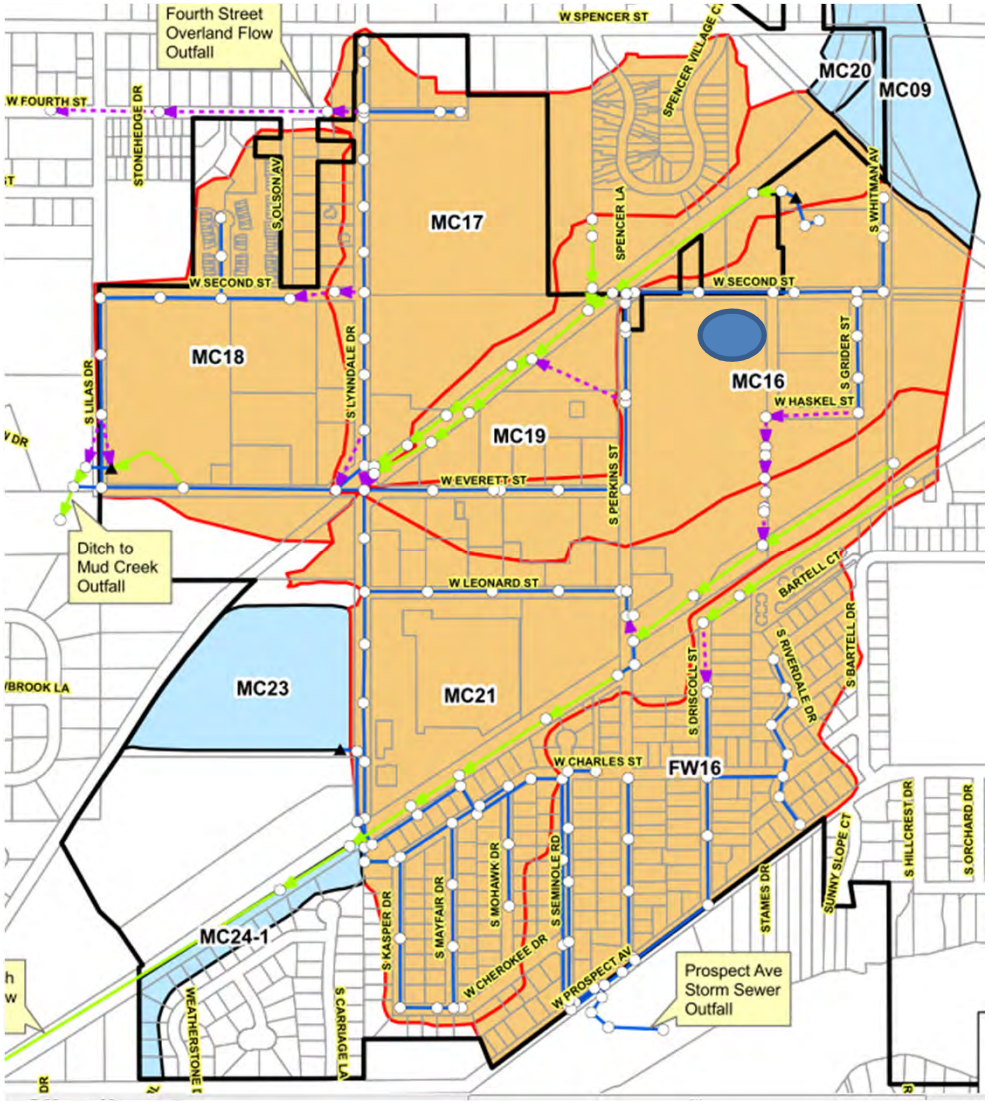


LIONS PARK

- Three Soil Borings completed early June
- Two were made into groundwater level monitoring wells
- Will begin taking water levels with the next round at Appleton East HS
- Further activities on hold until 2017

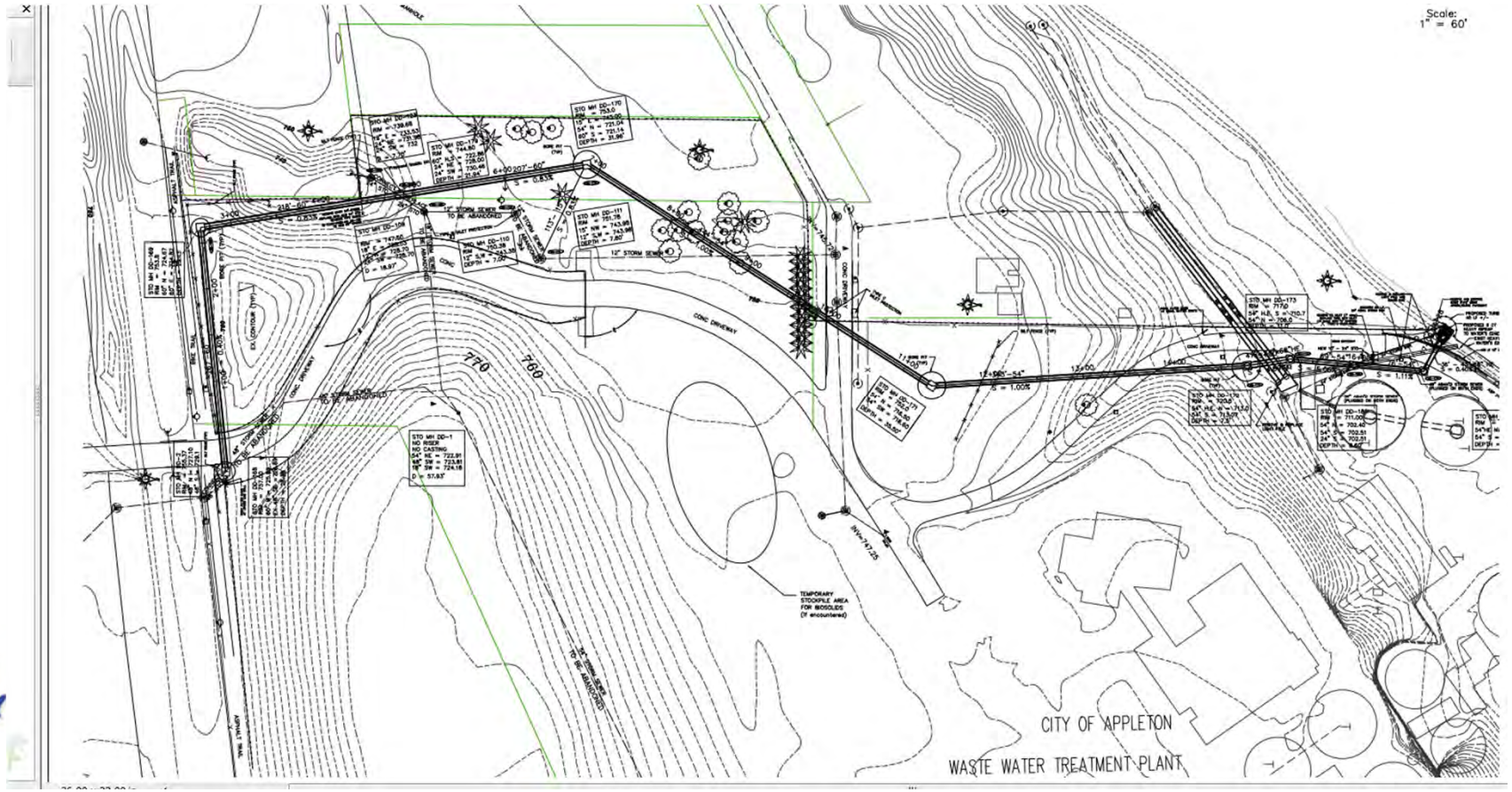
COTTER STREET

- Part of Leonard St Study
- Sewers throughout study area undersized
- No feasible alternative found in 2010 study
- Now working with owner on Perkins Street – possible pond project
- Land/Final Design in 2016
- Construction in 2017



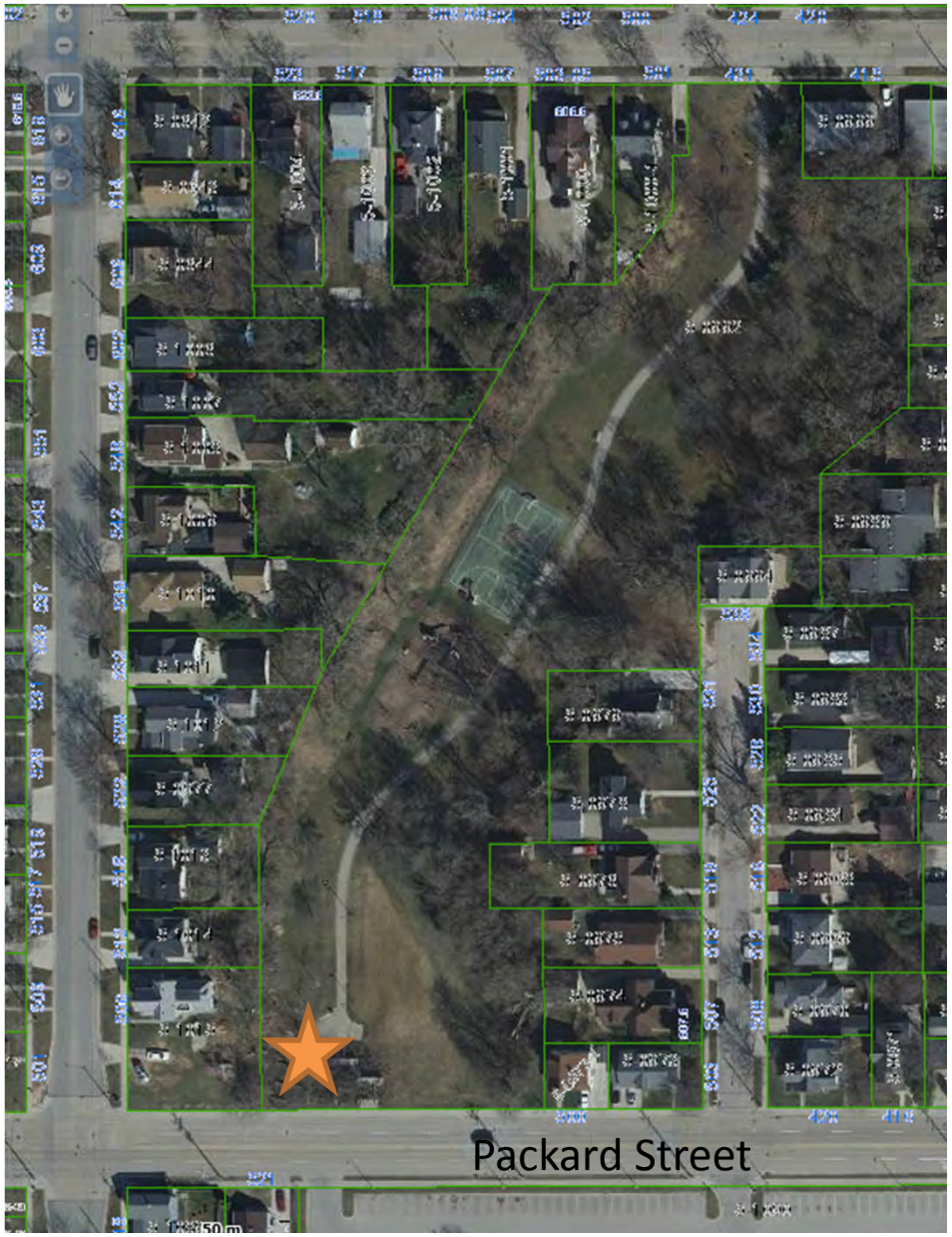
WWTP Storm Sewer Reroute

- Response to DNR directive
- Rebid in 2015
- Starts in August



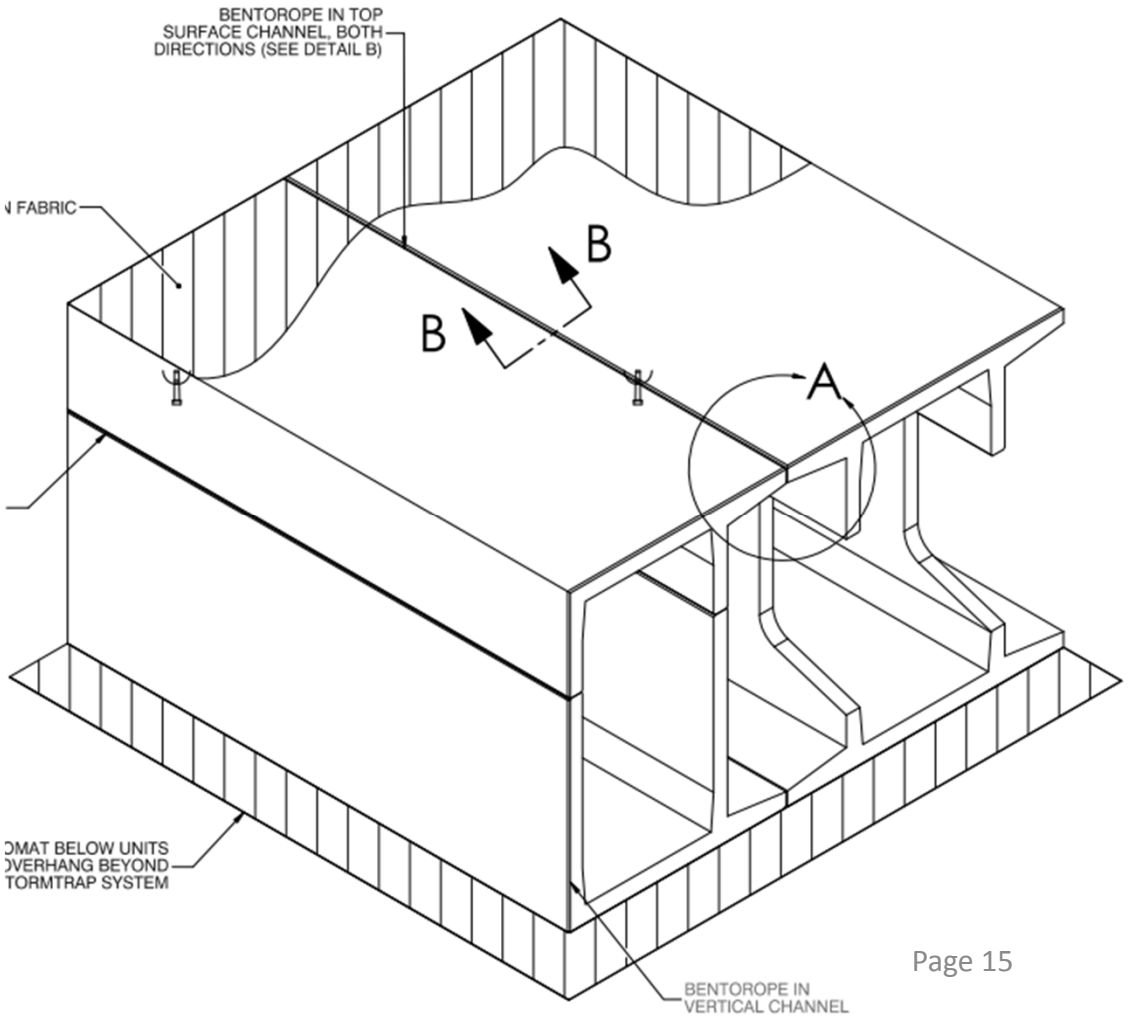
ARBUTUS PARK

- Stormwater Lift Station Maintained by Utilities
- Repairs are increasing
- Initial Evaluation in 2015
- Design/Construct in 2016
- High End Estimate $140K if replacement needed



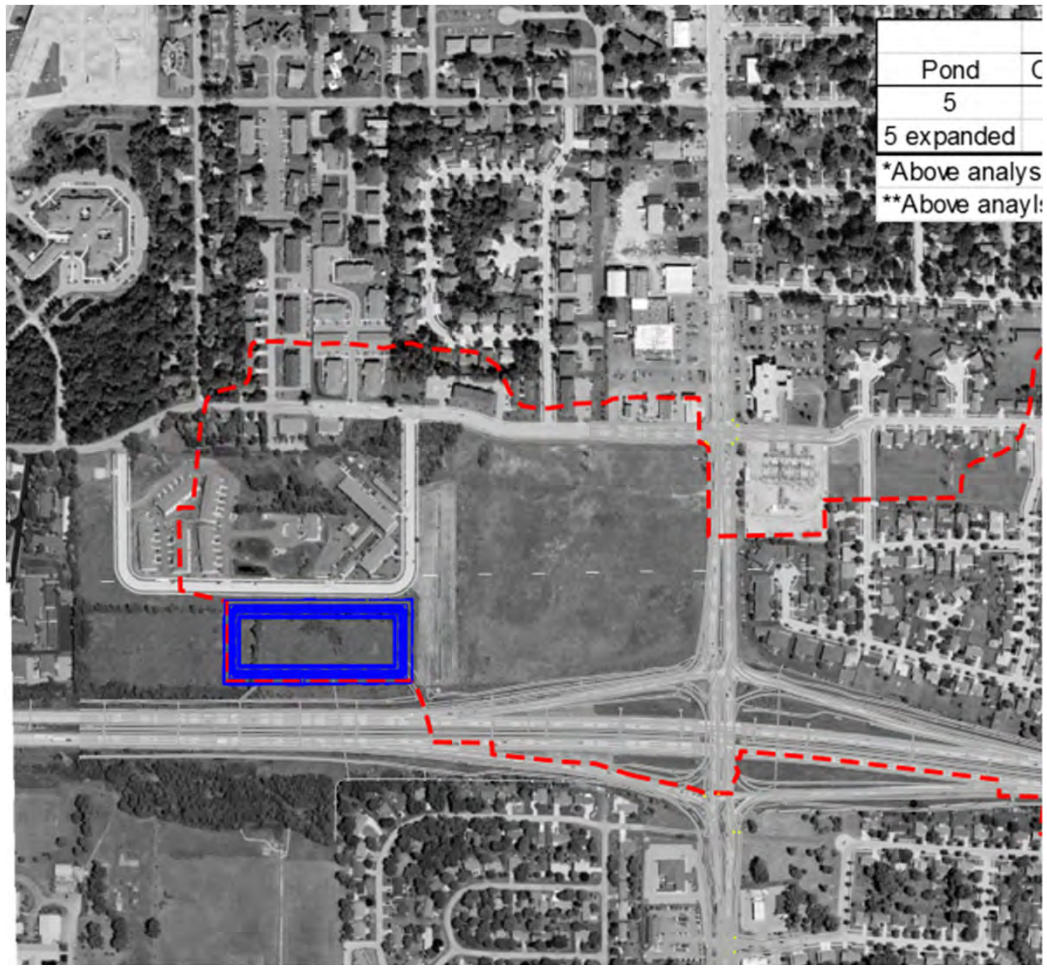
Appleton East HS Storage

- Inspections Scheduled for June
- Planned additional access
- Landscaping



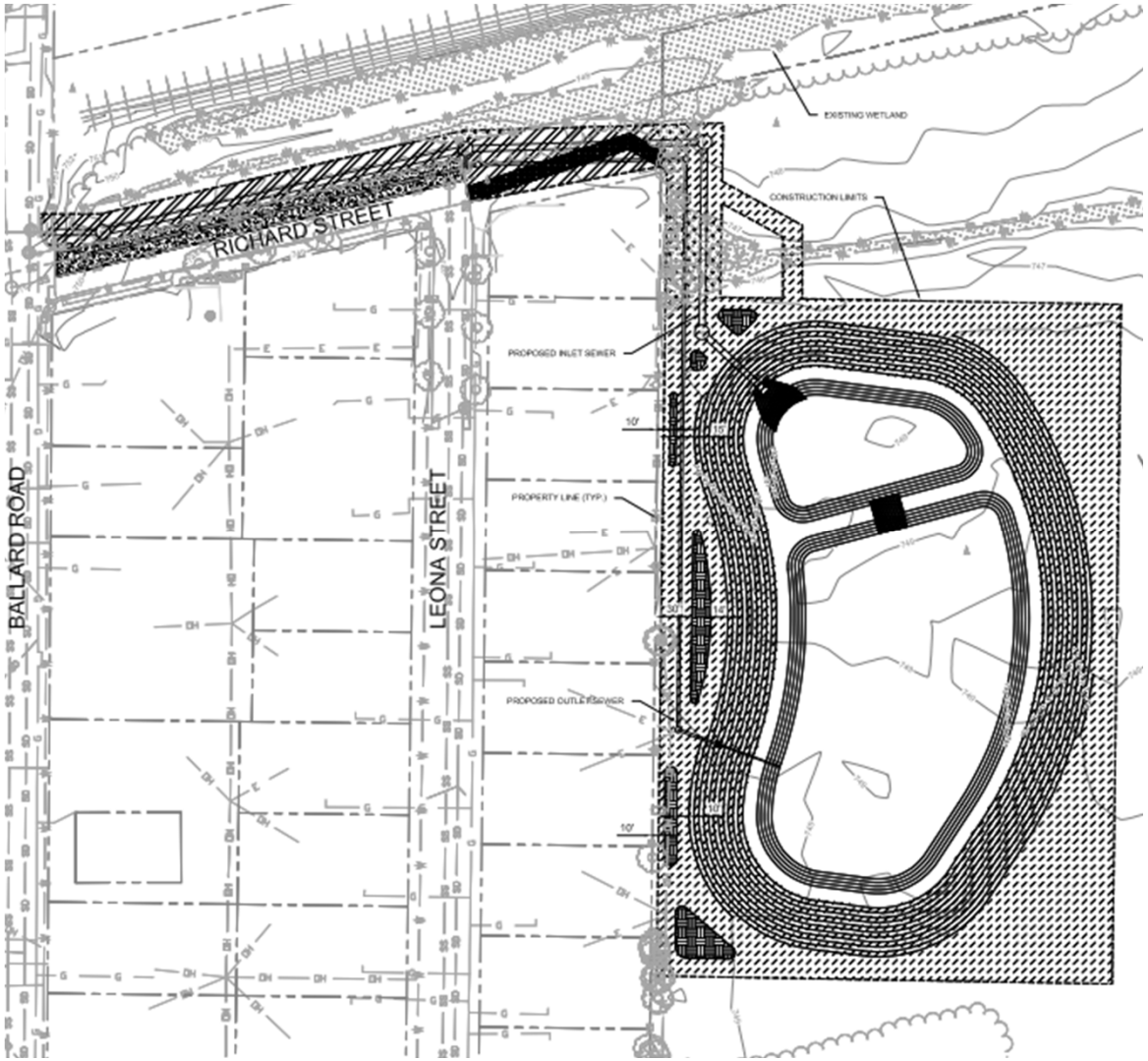
WisDOT/Valley Road Pond

- DOT- led project to expand pond
- Anticipated Cost Share w City
- Anticipated 2017-2018 Construction



Leona Street Pond

- Preliminary Design Complete
- Final Design/Land in 2016
- Anticipated 2018 Construction
- Design to Include Enhanced P Removal

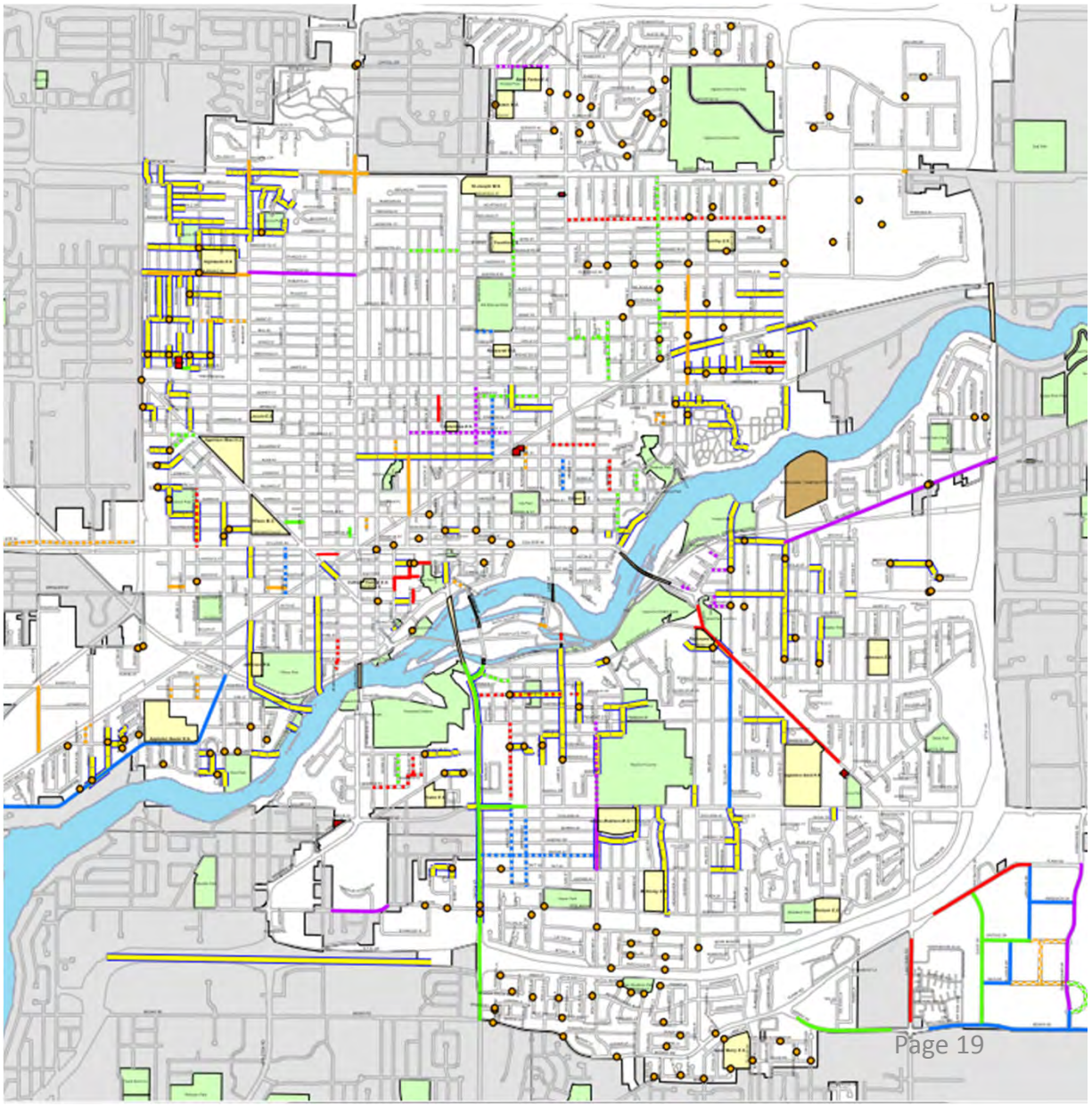


PaveDrain Permeable Pavement

- Pilot Projects at Fire Station #2 and Sandra St
- Flood Reduction and Water Quality

Storm Sewer Upgrades

- Pursuing drainage study recommendations
- Coordinating with paving schedule



Admin Project: Utility Billings Changes

- Multifamily Residential
- Now based on actual impervious area
- More equitable, more admin

STORMWATER
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UTILITIES COMMITTEE

September 22nd , 2015

Appleton's Implementation Plan for City-wide Stormwater Management Plan

- 2015
  - Final design/permitting of Northland Pond (In Progress)
  - Work with Counties to clarify credit (In Progress)
  - Evaluate potential Mud Creek project (DONE)
  - Relocate public storm sewer at WWTP to address Illicit Discharge (In Progress)

Appleton's Implementation Plan –Con't

- 2016
  - Solicit bids for Northland Pond (Likely Delayed into 2017)
  - Work with WDOT to clarify credit
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  - Evaluate possibility of adding private street sweeping contract to supplement City staff
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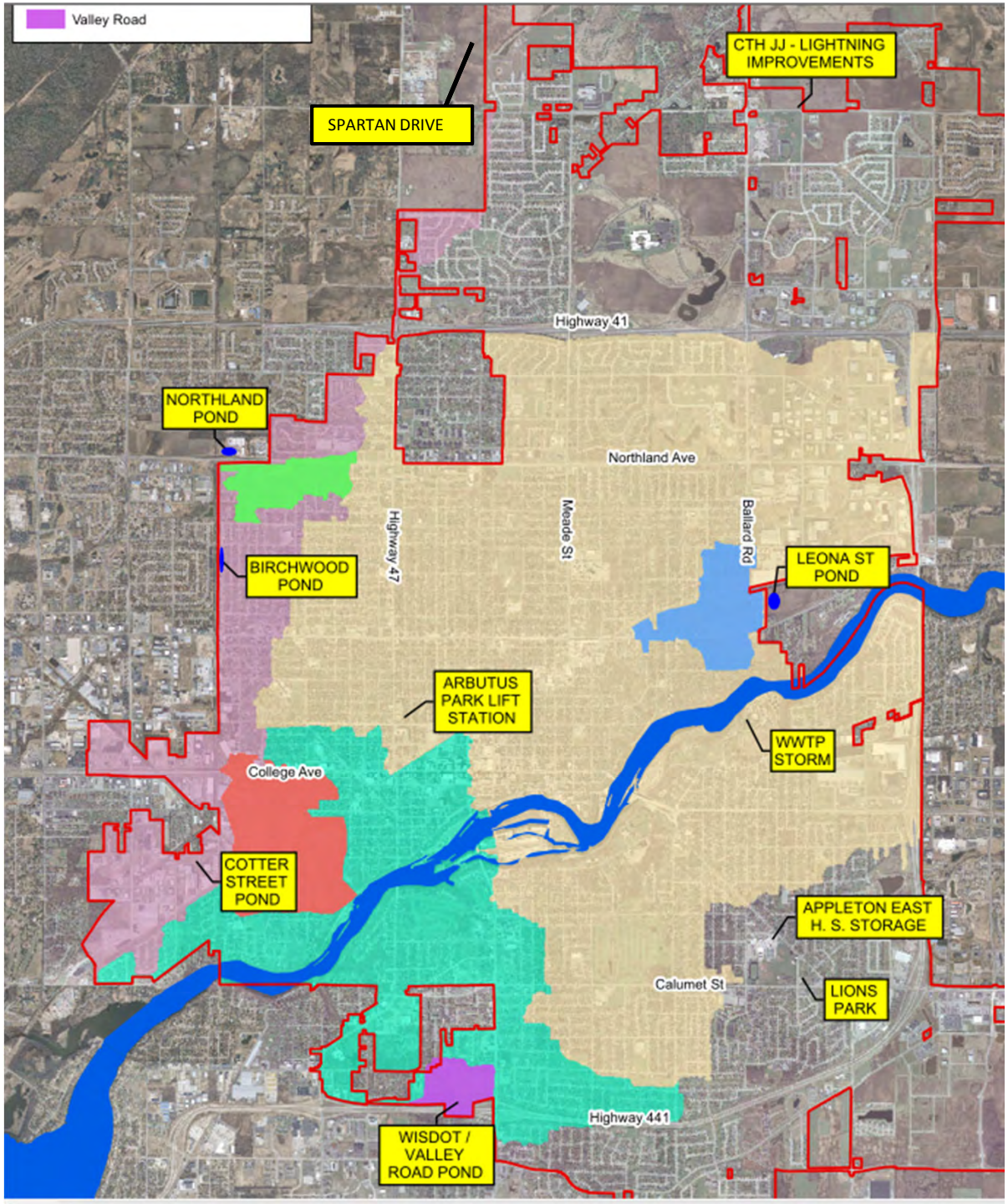
- 2018
  - Construct Leona Street Pond
  - Possibly construct pond with WDOT 441 Project

NR 216 Permit

- Public Education and Outreach
  - Northeast Wisconsin Stormwater Consortium (NEWSC)
  - Example: Summer Camp
  - Plan update needed
- Public Involvement and Participation
  - Tied to Public Education and Outreach
  - Example: April 25, 2015 River Cleanup
- Illicit Discharge Detection and Elimination
  - On-going field screening (In Progress)
  - Ordinance Update (Complete)
- Construction Site Pollution Control
  - Ordinance and Program update

NR 216 Permit

- Post-Construction Stormwater Management
  - Ordinance and Program update (In Progress)
  - Approximately double the plan reviews in 2015 as 2014
- Pollution Prevention
  - 2 requirements added to the new permit
  - Additional reporting required
  - Program to be updated (In Progress)
  - Also updating site specific SWPPP's
- Stormwater Quality Management
  - City-wide SWMP update fall 2014
- Storm Sewer System Map and Annual Report


Valley Road
SPARTAN DRIVE
CTH JJ - LIGHTNING IMPROVEMENTS
Highway 41
NORTHLAND POND
Northland Ave
Highway 47
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Ballard Rd
BIRCHWOOD POND
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Capital Projects

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- Cotter Street
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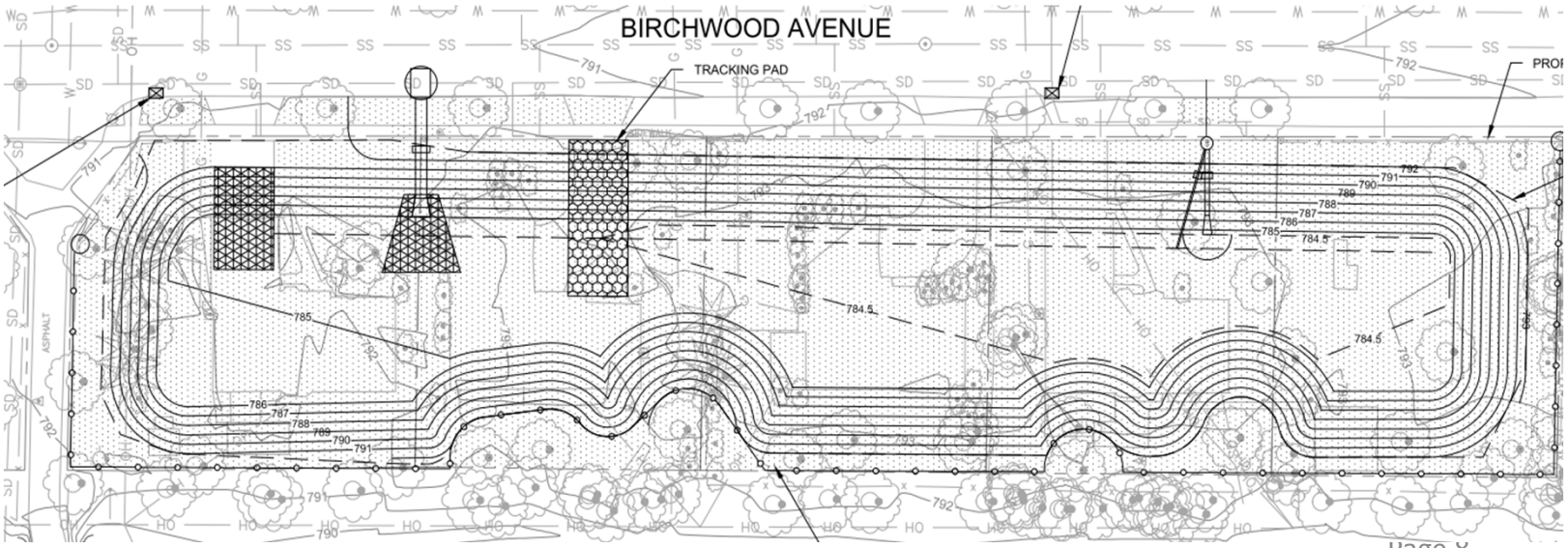
- Appleton East HS Stormwater Storage
- WISDOT/Valley Road Pond
- Leona Street Pond
- PaveDrain Permeable Pavement
- Storm sewer upgrades prior to street reconstruction
- Spartan Drive and Lift Station

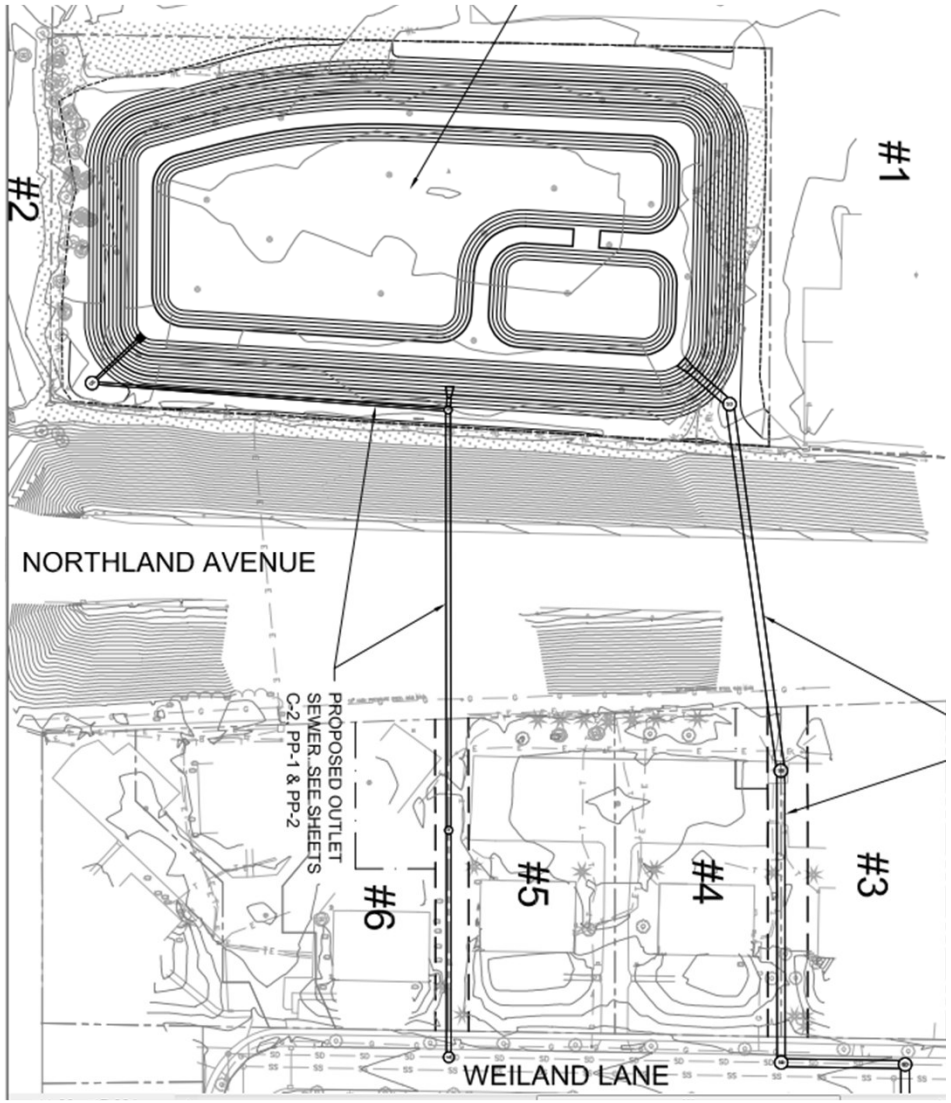
BIRCHWOOD POND

- Phase I of West Wisconsin Stormwater Study
- Substantial Completion was July 2015
- Landscaping Amenities in Fall 2015



NORTHLAND POND

- Phase 2 of W. Wisc. Study
- Final Design In Progress
- 60% plans due October 12
- Looking for site to accept Low Hazard Grant of Exemption Soils
- Disposal site(s) needed to obtain DNR Permit
- Planned 2017 Construction

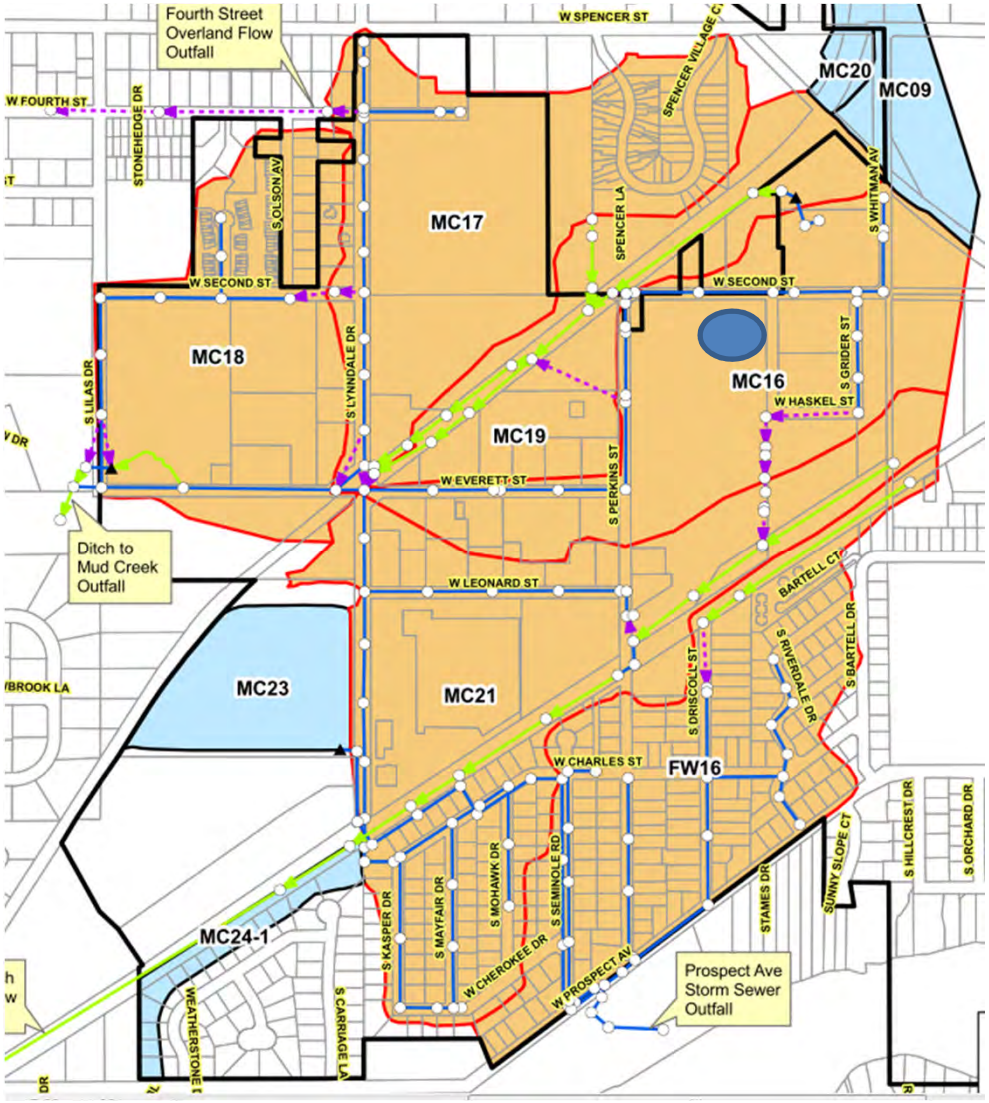


LIONS PARK

- Three soil borings completed early June
- Two were made into groundwater level monitoring wells
- Taking water level measurements
- Next committee/council decision point in Fall 2016

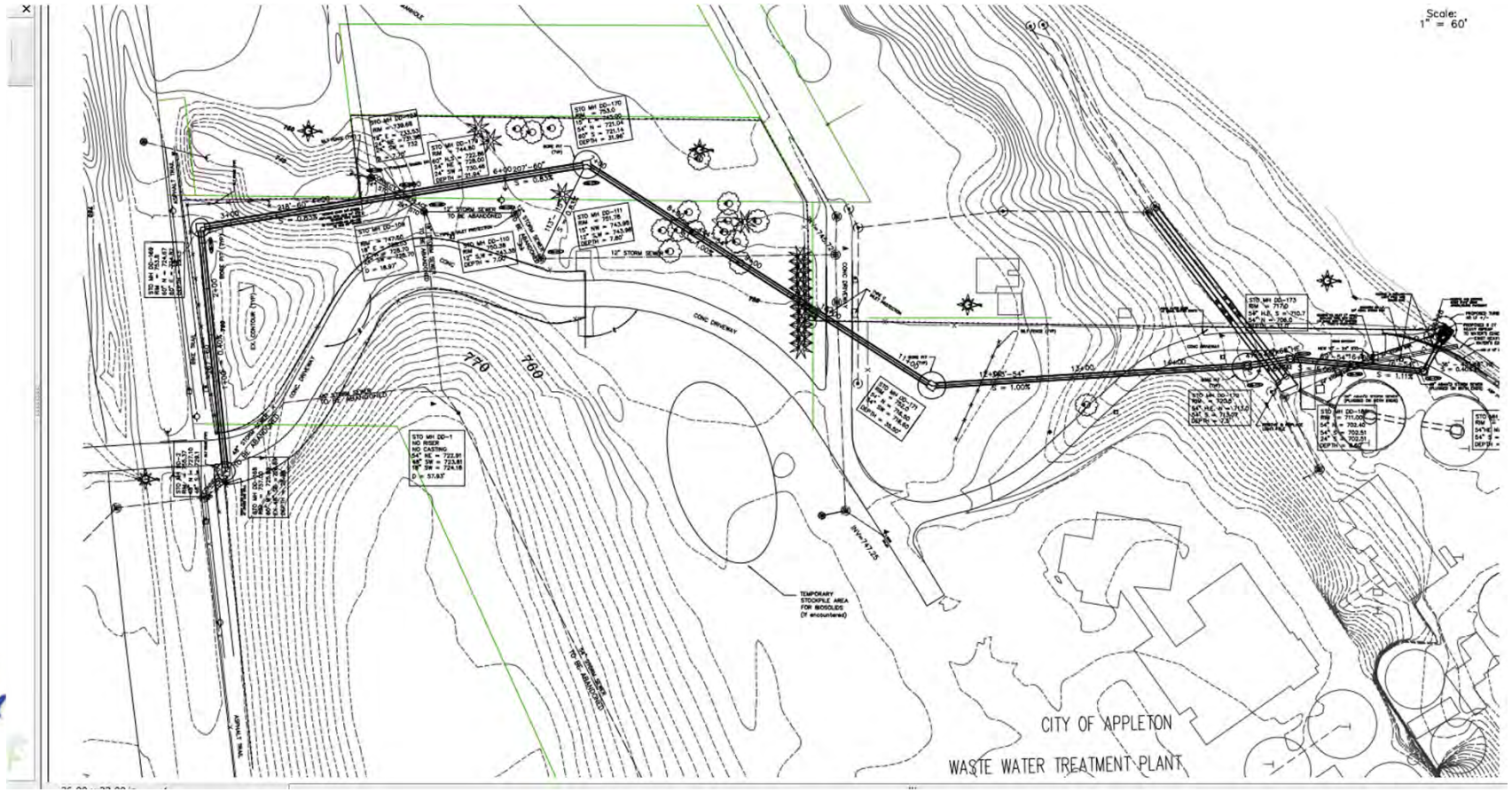
COTTER STREET

- 2010 Leonard St Study- sewers in area undersized, no feasible alternative
- Possible pond project with private owner
- Land/Final Design in 2016
- Construction in 2017



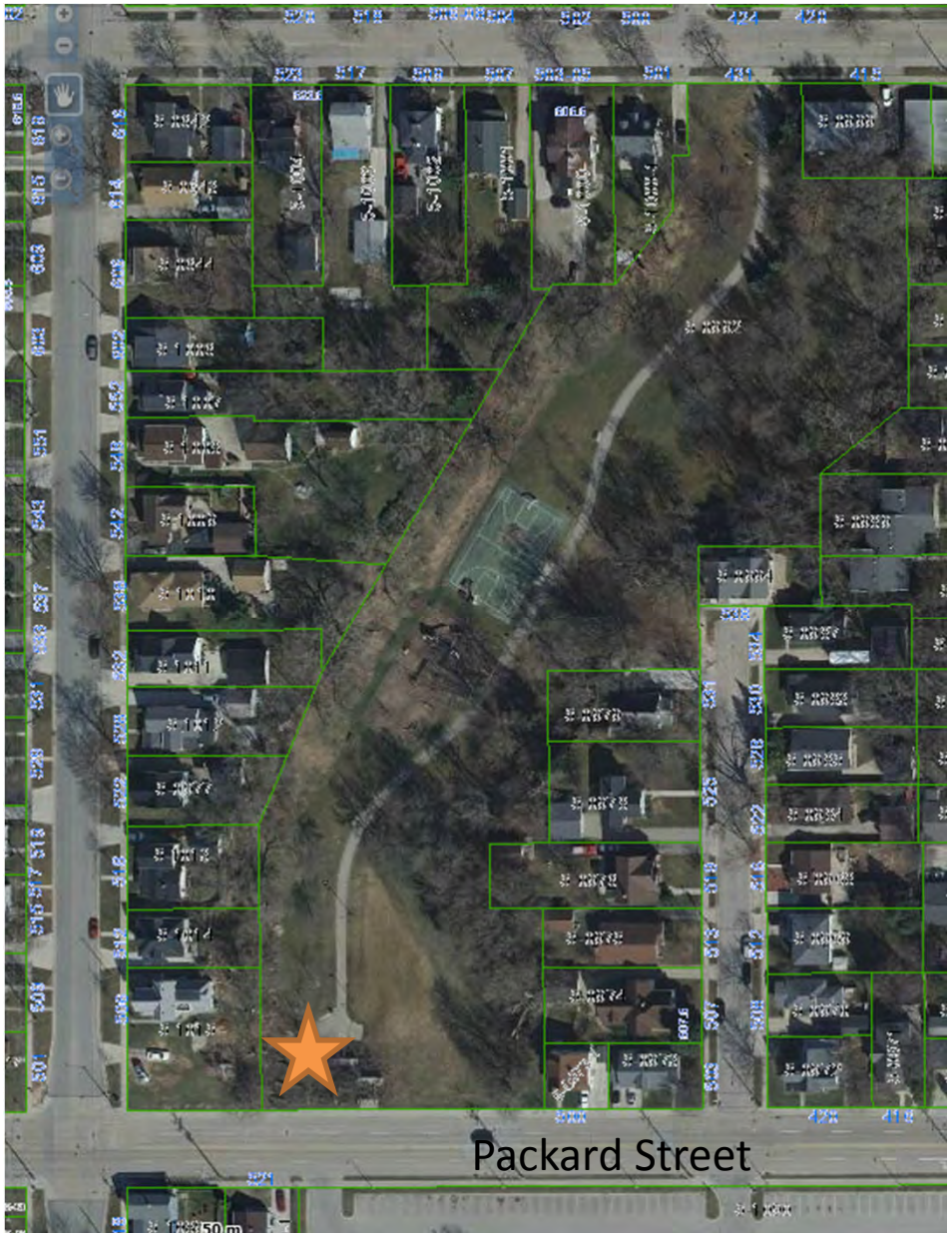
WWTP Storm Sewer Reroute

- Response to DNR directive
- Rebid in 2015
- Construction approximately 20% complete



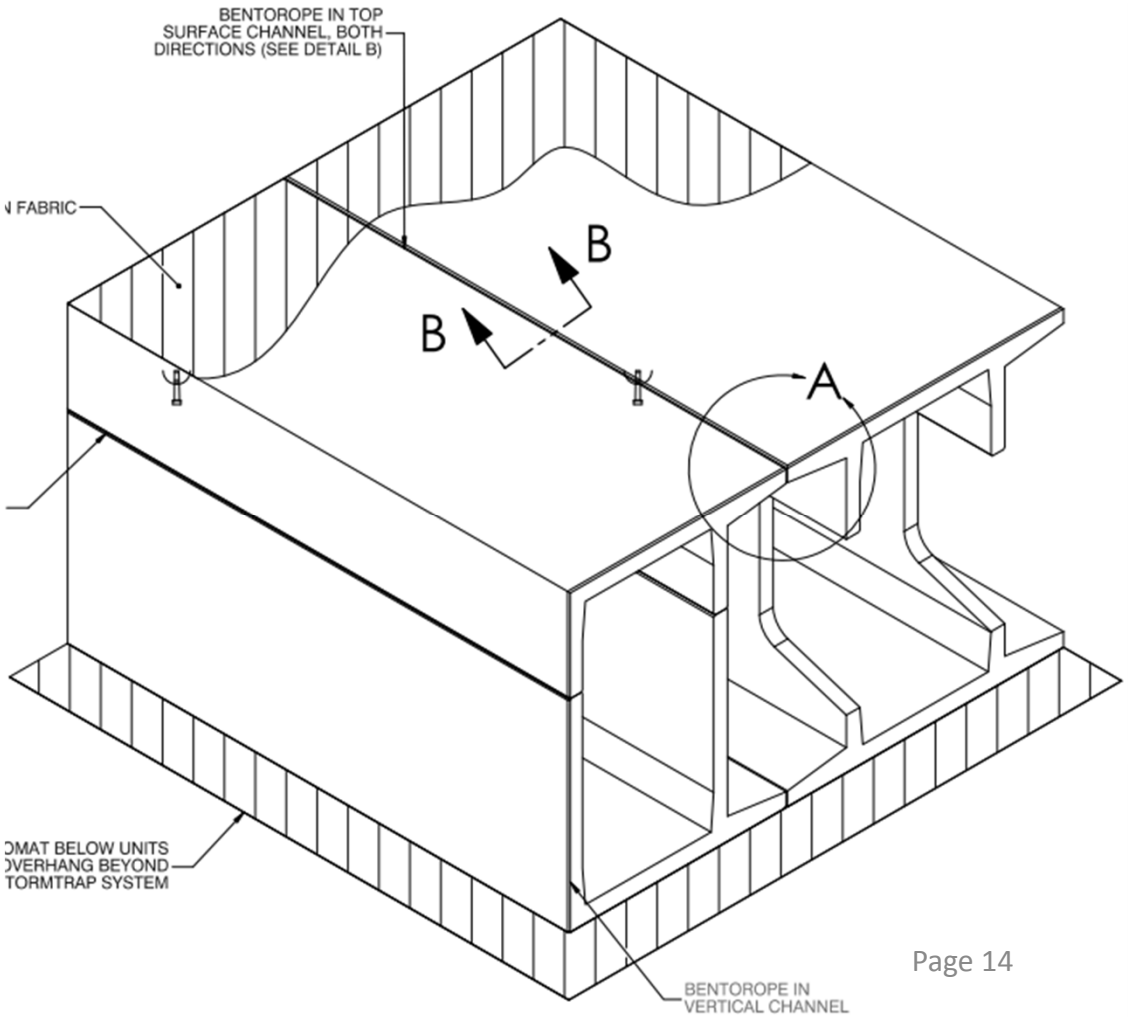
ARBUTUS PARK

- Stormwater Lift Station Maintained by Utilities
- Repairs are increasing
- Received proposals for 2015 Conditions Assessment on September 4
- Design/Construct in 2016
- High End Estimate $140K if replacement needed



Appleton East HS Storage

- Additional access and surface lot drainage installed in late July
- Landscaping and other warranty items remain



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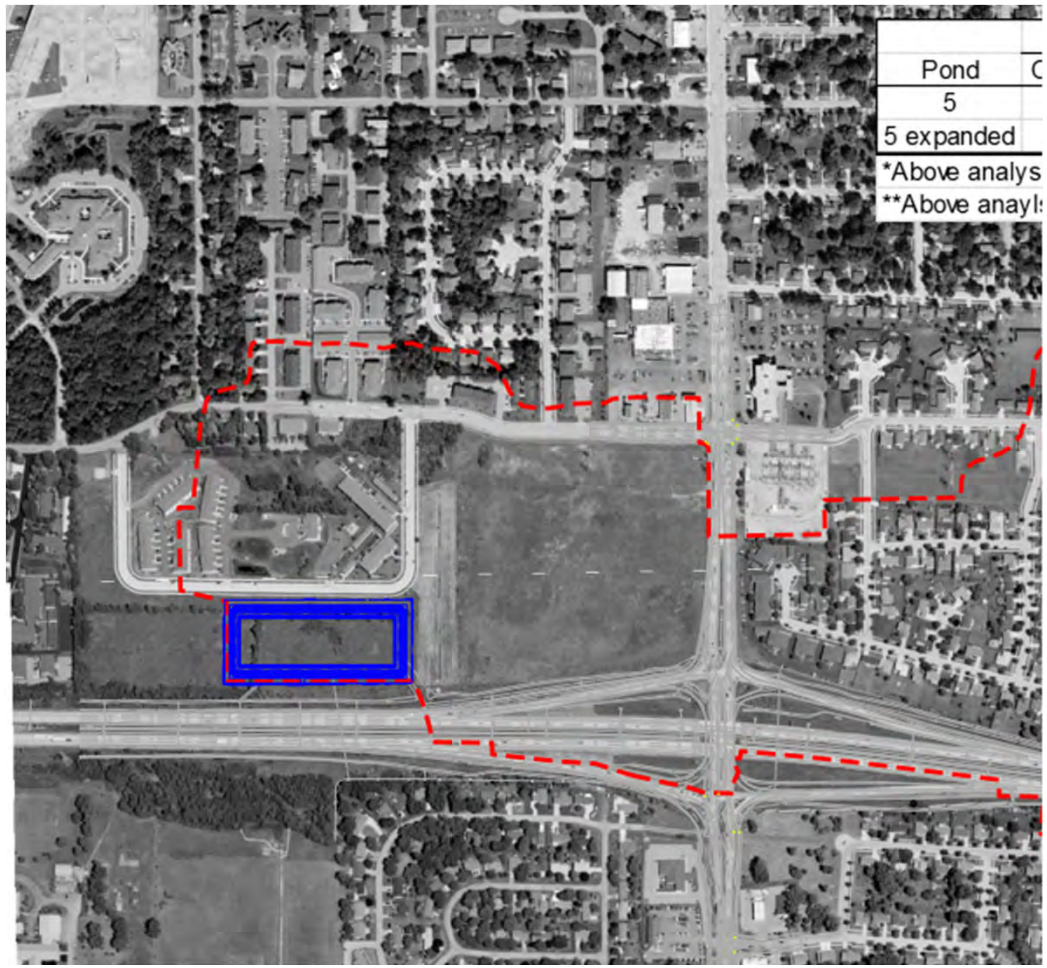
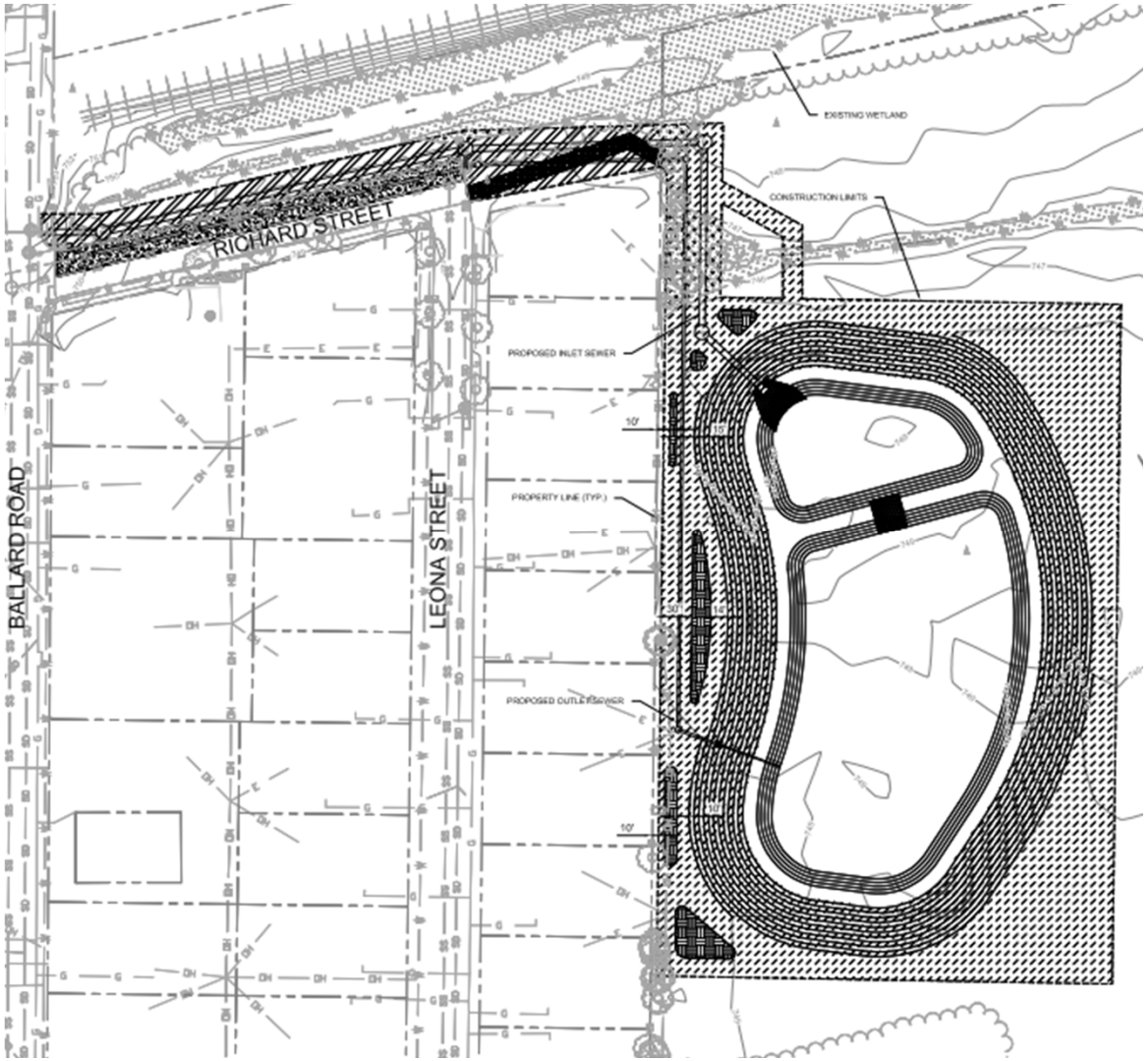


Leona Street Pond

- Preliminary Design Complete
- Met with Neighbors September 15
- Final Design/Land in 2016
- Anticipated 2018 Construction
- Design to Include Enhanced P Removal

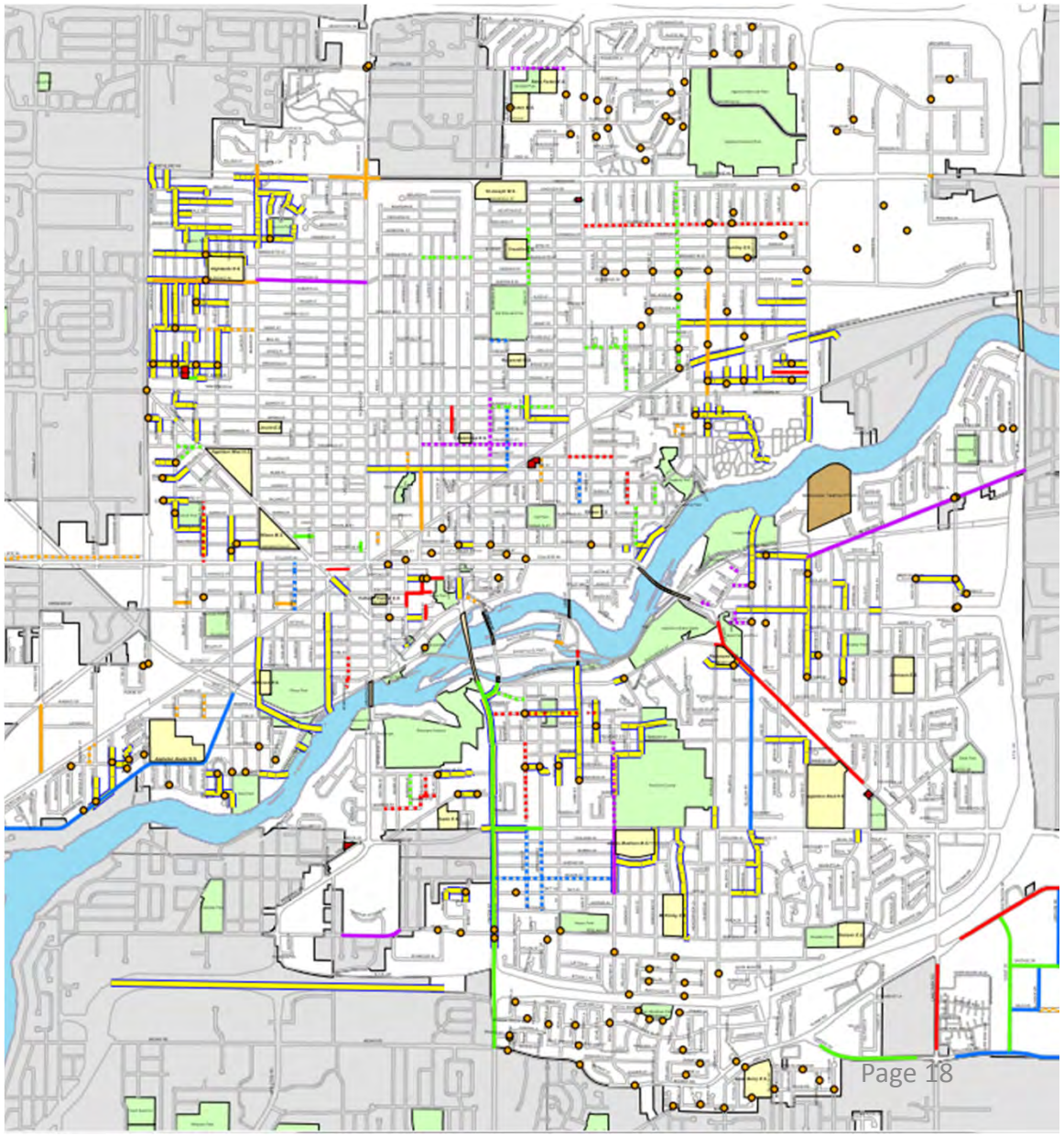


PaveDrain Permeable Pavement

- Pilot Projects at Fire Station #2 and Sandra St this Fall
- Flood Reduction and Water Quality

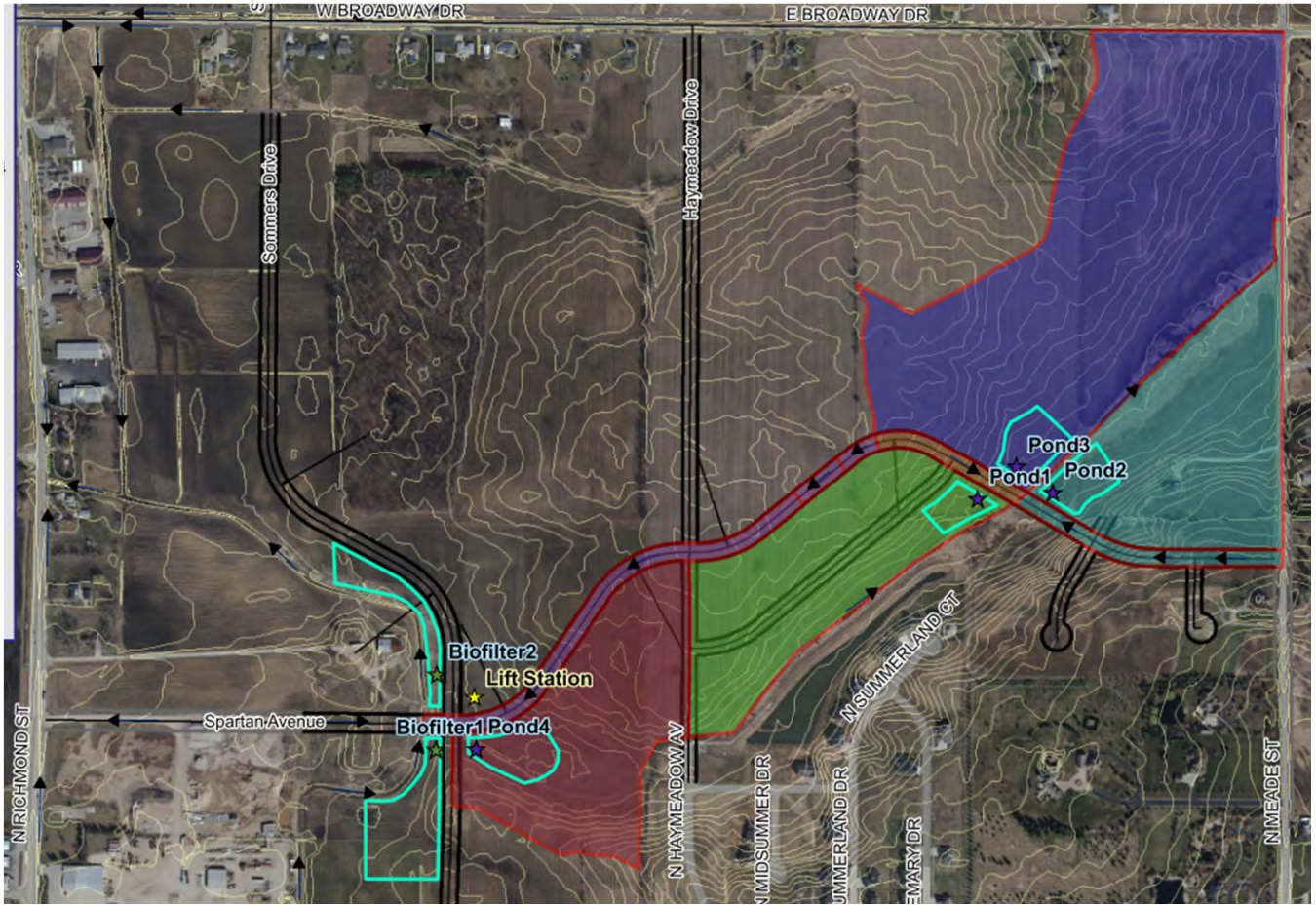
Storm Sewer Upgrades

- Pursuing drainage study recommendations
- Coordinating with paving schedule
- 2015: Douglas, John, McKinley
- 2016: Owaissa, Grant, Lawrence, Glendale, Mason, Spring



Spartan Drive/Lift Station

- Preliminary Engineering for stormwater facilities and box culvert 2015/16
- SWMP and Final design for Lift Station storm facilities in 2015/16
- Final design for box culvert and stormwater facilities in 2016



2016 Capital Budget Request

- Cotter Street Pond Design and Land Acquisition
- Leona Street Pond Design and Land Acquisition
- Arbutus Park Lift Station Design/Construction
- Northland Pond Utility Relocations
- Storm sewer upgrades prior to street reconstruction

MEMORANDUM OF UNDERSTANDING
CTH AP (Midway Road)

This Memorandum of Understanding is meant to establish the Midway Road (CTH AP – Oneida Street to Coop Road) maintenance responsibilities for each jurisdiction.

Calumet County shall be responsible for the following tasks:

- Pavement Maintenance
- Signage
- Snow and Ice Maintenance

City of Appleton shall be responsible for the following tasks:

- Hauling snow
- Sidewalk maintenance
- Stormsewer maintenance
- Terrace mowing
- Tree maintenance
- Street Sweeping

By: Brian P. Glaeser Date: 11/24/15
Brian P. Glaeser, Calumet County Highway Commissioner

By: Paula Vandehey Date: 11-24-15
Paula A. Vandehey, City of Appleton Director of Public Works

Appleton Summer Camp 2015

Organization: Fox-Wolf Watershed Alliance

Outreach Coordinator: Kelly Reyer

Attachment D

Topic	Summary
Pondering Stormwater Week: 1	Campers will learn about storm water, what it is, where it goes and why stormwater quality is important to us. Campers will visit the stormwater ponds at the park. **Campers were led on a tour of the stormwater pond at the park. We talked about stormwater, the pollution it picks up, and where it goes. The campers learned how the ponds allow heavy pollutants to settle to the bottom. Next, the campers returned to the pavilion to construct their own stormwater filtration systems using various materials and then tested them using dirty water. After this, the campers took the watershed pledge and they chose between a water bottle and beach ball. There was a Renew Our Waters flyer for each child. (approx. 22 campers)**
Dreams of Streams Week:2	Campers will learn about streams, how they function, what lives in and among them, and why they are important to us. Campers will also learn about groundwater. Campers will take a hike through the park. **Campers discussed streams and identified the various parts of a meander. Next, we hiked to the driveway bridge that covers the stream running through the park. The campers looked at differences between the stream on either side. We talked about water flow and infiltration comparing straight concrete channels to natural ground cover and meanders in the stream. The campers completed a stream themed scavenger hunt. There was a Renew Our Waters flyer for each child (approx. 24 campers)**
What's Bugging You? Week: 3	Campers will learn about bugs and why they are important. Campers will be introduced to bugs on land and in streams and be able to use bug catching nets to view bugs up close. **Jessica talked about insects we find in our area and had real examples of bugs in acrylic for the kids to look at with a magnifying glass. The kids were then able to explore the park with camp leaders to and catch insects and look at them more closely. There was a Renew Our Waters flyer for each child (approx. 24 campers)**
Runoff Races Week: 4	Campers will learn about water quality, particularly how urban and agriculture runoff affect water quality and what people can do to make a difference. Campers will participate in runoff races, an obstacle course to show how water runs off and picks up pollutants on the way to rivers and lakes. **Campers discussed stormwater runoff pollution looking at several photos showing different examples. Next, the campers saw stormwater runoff pollution in action using the EnviroScape model. Following the EnviroScape, the group participated in a game of Runoff Races. The students learned how pollutants are more easily carried to our water bodies when the pathway is shorter and straighter. Two rounds of the game were played because of interest from the campers. There was a Renew Our Waters flyer for each child. (approx. 28 campers)**

It's For the Birds! Week: 5	Campers will spend time bird watching in different areas of the park. **The campers talked about approx. 20 different bird species found in Wisconsin and their habitats using a bird book with pictures. Next, the campers split into two groups and worked with a partner to find five bird species on a check list including, Ring-billed Gull, American Crow, American Robin, Red-winged Black Bird, and Canadian Goose. The campers helped identify these birds using binoculars. Last, the students drew a picture of their favorite bird in its habitat. The campers took home a Renew Our Waters flyer, a highlights magazine, and a bird-themed word search and crossword puzzle. (approx. 30 campers)**
Wetland Wonders Week: 6	Campers will learn about Wetlands and how they are different from other types of landscapes. A wetland scavenger hunt will give campers the opportunity to search for bugs and frogs, plants and signs of other animals while investigating the wetland areas of the park. **The campers talked about wetlands and their importance in our ecosystem. The campers watched me use a wetland model (created in a tray) to show how polluted runoff flowing down a hill is being absorbed by the wetlands, demonstrating their sponge-like abilities. They also learned that wetlands help to control flooding and are critical habitat for many animals. Next, the campers explored the wetlands in the park completing a wetland scavenger hunt. There was a Renew Our Waters flyer for each**
Aliens live among us Week: 7	Campers will learn about invasive (alien) species and how they change our environment and affect habitat. A tour of the park and discussion of how and why it is important to control invasive species will end the morning. **The campers were able to see real examples of aquatic invasive species up close with acrylic examples borrowed from FREEA. Examples included the Sea Lamprey, Round Goby, Zebra Mussels, and more. We talked about how invasive species are brought here and their impact on the ecosystem, and on food webs specifically. Next, we walked to the wetland area of the park and we talked about the phragmites, hybridized cattails, and purple loosestrife plants and their ability to take over the environment in large clusters. Lastly, we played invasive species tag, or blob tag, where one or two campers were the invasive species, and when they tagged another child, they linked arms and became a big chain or group after a while. They game reinforced the way in which invasive species can spread in an area and essentially take over. There was a Renew Our Waters flyers for each child (approx. 30 students).**

Prairie Pastimes Week: 8	Campers will learn about Prairies and how they are different from other types of landscapes. **I discussed prairies with the campers, talking about types of prairies, what kinds of plants and animals live in them, and predator/prey relationships within them. Next, the campers took a hike to a prairie plantings area in the park and completed a prairie scavenger hunt. Afterwards, the campers played Prairie Dog Tag. Prairie dog tag is set up where most of the kids were prairie dogs, and a handful are prey (ex. hawk or fox). The object is for the prairie dogs to get to the other side of the course to get to their food without being eaten (tagged) by the prey. Hoola hoops represented prairie potholes, or safe/hiding places for the prairie dogs to hide and rest. The game ended when all the food was taken or when all of the prey was captured. The game taught the campers about the importance of prairies for habitat and hiding places for prey animals. The campers really liked the game. There was a Renew Our Waters flyer for each child (approx. 30 campers)**

Illicit Discharge Detection & Elimination Program

2015 Outfall Field Screening Program

Prepared For The

CITY OF APPLETON
DEPARTMENT OF PUBLIC WORKS
CALUMET, OUTAGAMIE & WINNEBAGO COUNTIES, WISCONSIN

DECEMBER 18, 2015

McM. No. A0003-9-15-00481.02

JDH:car

McMAHON ENGINEERS ARCHITECTS
1445 McMAHON DRIVE | NEENAH, WI 54956
Mailing P.O. BOX 1025 | NEENAH, WI 54957-1025
PH 920.751.4200 FX 920.751.4284 MCMGRP.COM

Illicit Discharge Detection & Elimination Program

2015 Outfall Field Screening Program

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CITY OF APPLETON

CALUMET, OUTAGAMIE & WINNEBAGO COUNTIES, WISCONSIN

DECEMBER 18, 2015
McM. No. A0003-9-15-00481.02

I. INTRODUCTION

For a description of the City's Illicit Discharge Field Screening Program, please refer to the 'Ongoing Field Screening Program – 2014 Revision', February 12, 2014. The February 12, 2014 report contains a comprehensive description of the program, maps depicting the City's outfalls, and information on how the program complies with the City's WPDES permit from the Wisconsin Department of Natural Resources (DNR). Appendix A summarizes the outfalls to be field screened each year, including 2015.

As a part of the City of Appleton Illicit Discharge Field Screening Program, seventy-two outfalls within the City's jurisdiction were screened during 2015. Of the outfalls, twenty-one were major outfalls, thirty-three were minor outfalls, and eighteen were supplemental outfalls. Appendix B contains the outfall field screening worksheets for the seventy-two outfalls.

II. SUMMARY OF ILLICIT DISCHARGE PROGRAM'S MEASURABLE GOALS

Results for the City's 2015 Outfall Field Screening Program are as follows.

- Seventy-two MS4 outfalls were screened.
- Sixty-seven outfalls were characterized as unlikely to have an illicit discharge.
- Five outfalls were characterized as a potential, suspect, or obvious illicit discharge.
- Zero illicit discharge notifications were issued to adjacent municipalities.

- Zero educational materials were distributed to the public during the screening, as McMAHON personnel did not encounter members of the public during the screening.

III. ILLICIT DISCHARGE & FLOW OBSERVATIONS

Of the seventy-two outfalls that were screened in 2015, five (CC-97, E-60, HH-100, Y-336, and II-48) had chemical indicators suggesting a potential illicit discharge. Jim Becker at the City of Appleton was contacted for each outfall that had chemical indicators of an illicit discharge.

- Outfall CC-97 had ammonia present. This was due to a cracked pipe near the wastewater treatment plant, allowing biosolids leachate to enter the outfall.
- Outfalls E-60, HH-100, and Y-336 had elevated levels of chlorine.
- Outfall HH-100 had elevated levels of copper.
- Outfall II-48 had a brown color and high turbidity in the water coming out of the outfall. It was likely that the source of the color and turbidity was from concurrent pipe cleaning by Green Bay Pipe & TV nearby. The outfall was originally screened on August 12, and was rechecked on September 1. When the outfall was rechecked, the color and turbidity were normal.

Flow was observed at twenty-seven outfalls (AA-1, AX-45 US2, BY-3, CC-97, E-60, HH-100, HH-97, N-319 U, N-363, P-85 US, PP-27, PP-32, QQ-60, RR-29, SS-30, SS-39, TT-28, W-260, Y-336, EE-195, F-43, II-48, BM-97, GG-68, H-60, I-33 US2 and KK-65). Videos were taken at each of the twenty-seven outfalls with observed flow. Twenty-two of these outfalls showed no chemical indicators of an illicit discharge.

Physical indicators were observed at seventeen outfalls during screening:

- Flow line staining was observed at three outfalls (PP-22, SS-30, and AJ-15),
- Cloudy pool water was observed at two outfalls (PP-32 and II-48),
- Benthic growth was observed at eight outfalls (E-58, KK-66, PP-27, RR-29, SS-39, AK-9, AL-3, and GG-68),
- Suds were observed at three outfalls (CC-97, TT-28, and W-260), and
- Oil sheen was observed at two outfalls (CC-97, DD-175).

IV. NON-ILLICIT DISCHARGE OBSERVATIONS

Outfall HH-97 was modified to include a new pipe and end section.

Appendix C contains the outfall field screening worksheets for those outfalls with non-illicit discharge concerns. Thirteen outfalls had physical conditions not related to an illicit discharge:

- Structural damage to the pipe, end section, or headwall was observed at six outfalls (E-58, SS-32, SS-33, SS-35, FF-108, II-48),
- Corrosion was observed at six outfalls (SS-30, II-48, FF-115, GG-69, GG-76, and H-60),
- Overgrown vegetation was observed at one outfall (RR-25), and
- Landscape mulch/debris was observed within one outfall (AC-12).

V. FUTURE FIELD SCREENING

As described in the 'Ongoing Field Screening Program – 2014 Revision', February 12, 2014, the outfalls within the City's jurisdiction that are deemed "priority" are to be screened every year and the major outfalls that are deemed "non-priority" are to be screened every 5 years. Non-priority, non-major outfalls are to be screened every 10 years. The City of Appleton reserves the right to revise the screening schedule as long as the goals of the screening frequency are achieved.

Nine outfalls (AE-17, AX-45, KK-78, N-319, P-85, V-136, I-33, LL-24, and LL-25) were screened at supplemental locations due to inaccessibility at the actual outfall locations. McMAHON recommends that these outfalls be screened at their respective supplemental locations for future screenings. Outfall AA-1, which is a priority outfall that is screened annually, was screened at the actual outfall location in 2015, but McMAHON recommends this outfall be screened at a supplemental location beginning in 2016 because of inaccessibility at the outfall location.

APPENDIX A

Outfalls in the City of Appleton Field Screening Program

City of Appleton Ongoing Screening Program

Outfall Inspection Sequence, by Year

Outfall ID	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Priority Outfalls (annual)										
AA-1	X	X	X	X	X	X	X	X	X	X
AB-51	X	X	X	X	X	X	X	X	X	X
AC-12	X	X	X	X	X	X	X	X	X	X
AE-17	X	X	X	X	X	X	X	X	X	X
AH-2	X	X	X	X	X	X	X	X	X	X
AX-45	X	X	X	X	X	X	X	X	X	X
AX-48	X	X	X	X	X	X	X	X	X	X
BB-229	X	X	X	X	X	X	X	X	X	X
BY-3	X	X	X	X	X	X	X	X	X	X
CC-116	X	X	X	X	X	X	X	X	X	X
CC-97	X	X	X	X	X	X	X	X	X	X
DD-175	X	X	X	X	X	X	X	X	X	X
E-58	X	X	X	X	X	X	X	X	X	X
E-60	X	X	X	X	X	X	X	X	X	X
HH-100	X	X	X	X	X	X	X	X	X	X
HH-97	X	X	X	X	X	X	X	X	X	X
J-141	X	X	X	X	X	X	X	X	X	X
KK-19	X	X	X	X	X	X	X	X	X	X
KK-21	X	X	X	X	X	X	X	X	X	X
KK-61	X	X	X	X	X	X	X	X	X	X
KK-66	X	X	X	X	X	X	X	X	X	X
KK-68	X	X	X	X	X	X	X	X	X	X
KK-78	X	X	X	X	X	X	X	X	X	X
N-319	X	X	X	X	X	X	X	X	X	X
N-363	X	X	X	X	X	X	X	X	X	X
P-85	X	X	X	X	X	X	X	X	X	X
PP-22	X	X	X	X	X	X	X	X	X	X
PP-27	X	X	X	X	X	X	X	X	X	X
PP-32	X	X	X	X	X	X	X	X	X	X
QQ-58	X	X	X	X	X	X	X	X	X	X
QQ-59	X	X	X	X	X	X	X	X	X	X
QQ-60	X	X	X	X	X	X	X	X	X	X
RR-25	X	X	X	X	X	X	X	X	X	X
RR-26	X	X	X	X	X	X	X	X	X	X
RR-29	X	X	X	X	X	X	X	X	X	X
SS-30	X	X	X	X	X	X	X	X	X	X
SS-32	X	X	X	X	X	X	X	X	X	X
SS-33	X	X	X	X	X	X	X	X	X	X
SS-35	X	X	X	X	X	X	X	X	X	X
SS-36	X	X	X	X	X	X	X	X	X	X

City of Appleton Ongoing Screening Program

Outfall Inspection Sequence, by Year

Outfall ID	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
SS-39	X	X	X	X	X	X	X	X	X	X
TT-28	X	X	X	X	X	X	X	X	X	X
V-136	X	X	X	X	X	X	X	X	X	X
W-260	X	X	X	X	X	X	X	X	X	X
Y-336	X	X	X	X	X	X	X	X	X	X
Non-Priority Major Outfalls (every 5 years)										
B-75	X					O				
C-553	X					O				
IDDE-102	X					O				
L-32	X					O				
NN-29	X					O				
Z-129	X					O				
BU-11		X					O			
BU-12		X					O			
EE-195		X					O			
F-43		X					O			
FF-108		X					O			
II-48		X					O			
BT-28				X					O	
IDDE-105				X					O	
AG-40					X					O
AG-41					X					O
AX-44					X					O
BN-38					X					O
P-192					X					O
AT-6	O					X				
BM-97		O					X			
AD-345			O					X		
AQ-124			O					X		
AQ-130			O					X		
JJ-43			O					X		
BP-95					O					X
Non-Priority Non-Major Outfalls (every 10 years)										
A-21	X									
C-19	X									
CC-96	X									
J-140	X									
K-18	X									
L-78	X									
L-80	X									
L-83	X									
MM-33	X									

City of Appleton Ongoing Screening Program

Outfall Inspection Sequence, by Year

Outfall ID	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
N-317	X									
N-318	X									
N-331	X									
N-362	X									
N-367	X									
N-369	X									
OO-34	X									
QQ-52	X									
RR-35	X									
RR-38	X									
RR-39	X									
WW-4	X									
AJ-13		X								
AJ-15		X								
AK-9		X								
AL-3		X								
BB-226		X								
FF-115		X								
GG-68		X								
GG-69		X								
GG-71		X								
GG-73		X								
GG-75		X								
GG-76		X								
GG-77		X								
H-60		X								
I-33		X								
KK-62		X								
KK-65		X								
LL-24		X								
LL-25		X								
M-10		X								
SS-34			X							
SS-43			X							
U-20			X							
V-335			X							
V-336			X							
V-339			X							
V-342			X							
V-344			X							
V-355			X							
V-382			X							

City of Appleton Ongoing Screening Program

Outfall Inspection Sequence, by Year

Outfall ID	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
V-397			X							
V-400			X							
V-401			X							
V-404			X							
V-405			X							
V-412			X							
V-413			X							
V-414			X							
V-415			X							
V-430			X							
V-431			X							
V-432			X							
AX-46				X						
AX-47				X						
AX-49				X						
BR-26				X						
BS-21				X						
BT-13				X						
BT-20				X						
BT-22				X						
BT-24				X						
BT-25				X						
BT-26				X						
BT-27				X						
BT-29				X						
X-562				X						
X-564				X						
X-565				X						
X-566				X						
X-567				X						
X-574				X						
X-575				X						
X-576				X						
X-658				X						
AG-3					X					
AX-51					X					
AX-57					X					
AY-1					X					
BN-36					X					
CD-6					X					
IDDE-100					X					
IDDE-101					X					

City of Appleton Ongoing Screening Program

Outfall Inspection Sequence, by Year

Outfall ID	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
P-222					X					
P-81					X					
UU-25					X					
VV-37					X					
VV-62					X					
X-560					X					
X-630					X					
X-632					X					
X-633					X					
X-634					X					
X-657					X					
XX-6					X					
AF-116						X				
AF-67						X				
AF-88						X				
AF-91						X				
AN-12						X				
AN-9						X				
AO-59						X				
AP-19						X				
AS-5						X				
AT-4						X				
AU-69						X				
BE-14						X				
BF-7						X				
BZ-20						X				
BZ-23						X				
BZ-26						X				
AZ-54							X			
BC-71							X			
BC-76							X			
BC-79							X			
BC-80							X			
BD-15							X			
BK-55							X			
BK-56							X			
BK-86							X			
BL-10							X			
BM-64							X			
BM-92							X			
BM-94							X			
BV-117							X			

City of Appleton Ongoing Screening Program

Outfall Inspection Sequence, by Year

Outfall ID	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
BV-146							X			
BV-147							X			
BV-149							X			
IDDE-103							X			
IDDE-104							X			
AC-13								X		
AD-312								X		
AD-323								X		
AD-332								X		
AD-336								X		
AD-338								X		
AD-341								X		
AD-342								X		
AD-355								X		
AD-405								X		
AD-409								X		
AQ-126								X		
AQ-127								X		
AQ-129								X		
AW-62								X		
BH-3								X		
BH-5								X		
BO-38								X		
BO-46								X		
BO-47								X		
BO-49								X		
BV-119									X	
BV-121									X	
BV-123									X	
BV-124									X	
BV-126									X	
BV-128									X	
BV-129									X	
BV-131									X	
BV-133									X	
BV-135									X	
BV-136									X	
BV-138									X	
BV-139									X	
BV-140									X	
BV-142									X	
BV-144									X	

City of Appleton Ongoing Screening Program

Outfall Inspection Sequence, by Year

Outfall ID	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
BV-156									X	
BV-159									X	
BV-165									X	
BW-14									X	
BW-18									X	
BW-19									X	
BX-4									X	
BX-7									X	
BP-103										X
BP-104										X
BP-105										X
BP-110										X
BP-113										X
BP-115										X
BP-81										X
BP-82										X
BP-86										X
BP-88										X
BP-89										X
BP-91										X
BP-96										X
BP-97										X
BP-98										X
BP-99										X
BQ-25										X
BQ-27										X
BV-118										X
BV-166										X
Totals	73	72	71	69	71	68	71	70	71	71

Note:

For non-priority major outfalls, "X" represents the primary screening year (e.g., when surrounding outfalls are also screened). The "O" represents the alternate screening year, to meet the 5-year screening requirement.

APPENDIX B

2015 Outfall Field Screening Worksheets

City of Appleton

100 North Appleton Street

Appleton, WI 54911

(920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AA-1

Outfall Type: Major

MS4 Jurisdicton: City of Appleton

Outfall Location: Administrative outfall at inlet/manhole. Flows west to culvert under Wisconsin Ave. (Formerly AA-1-Y)

Outfall Description: Concrete MH

Conveyance Type:	Close Pipe
Material:	Concrete MH
Shape:	Circular
Number of Pipes:	1
Diameter:	42"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/28/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Temperature:	17 °C
pH:	7.6 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall flowing, but quantifying flow difficult without confined space entry. Construction at site. No erosion control at contributing catch basin. Side photo of outfall manhole.

Date of Inspection: 10/10/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.43638667000, 44.27308949240. Cannot safely open due to conditions.

City of Appleton

100 North Appleton Street

Appleton, WI 54911

(920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AB-51

Outfall Type: Major

MS4 Jurisdicton: City of Appleton

Outfall Location: 72 RCP from Winslow Av discharges to stream from north. (Formerly AB-23-X)

Outfall Description: 72

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	72"
Submerged in Water:	Partially
Submerged in Sediment:	No

Date of Inspection: 9/2/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: None

Date of Inspection: 10/7/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Approximate Flow:	21 gpm
Temperature:	14 °C
pH:	7.3 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.35768343940, 44.28659025600.
Free chlorine reading: 0 mg/l

City of Appleton

100 North Appleton Street

Appleton, WI 54911

(920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AC-12

Outfall Type: Minor

MS4 Jurisdicton: City of Appleton

Outfall Location: 8 PVC discharges to USH 41 right-of-way.

Outfall Description: 8

Conveyance Type:	Close Pipe
Material:	PVC
Shape:	Circular
Number of Pipes:	1
Diameter:	8"
Submerged in Water:	No
Submerged in Sediment:	Partially

Date of Inspection: 8/28/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow:	None
Physical Indirectors:	None
Overall Outfall Characterization:	Unlikely
Non-Illicit Discharge Concerns:	Yes
Comments:	Outfall pipe is 3/4 full of landscape mulch/ debris and is in need of cleaning.

Date of Inspection: 10/7/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow:	None
Physical Indirectors:	None
Overall Outfall Characterization:	Unlikely
Non-Illicit Discharge Concerns:	No
Comments:	Outfall location: -88.41999623960, 44.29819938790.

City of Appleton

100 North Appleton Street

Appleton, WI 54911

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AE-17 US

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: Concrete MH (AE-1) approximately 210 feet north of AE-17 on north side of Prospect Ave. Immediate area includes street right of way and residential land.

Outfall Description: Concrete MH

Conveyance Type:	Close Pipe
Material:	Manhole - Concrete
Shape:	Manhole - Concrete
Number of Pipes:	1
Diameter:	21"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/12/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Standing water but no flow. GPS of supplemental manhole - 88.45029708333, 44.24412847222

City of Appleton

100 North Appleton Street

Appleton, WI 54911

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AH-2

Outfall Type: Minor

MS4 Jurisdicton: City of Appleton

Outfall Location: Tuckaway La storm sewer discharges into STH 47 right-of-way. (Formerly AH-1-Y)

Outfall Description: Concrete MH

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 9/15/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Slight standing water in bottom of channel, but no flow.

Date of Inspection: 9/18/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.42364923410, 44.23586215590.

City of Appleton

100 North Appleton Street
Appleton, WI 54911
(920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AX-45 US
Outfall Type: Supplemental
MS4 Jurisdicton: City of Appleton

Outfall Location: Upstream manhole (AX-58) approximately 179 feet southwest of AX-45 at SE intersection of CTH KK and Coop Rd. Immediate area includes street right of way and grass space.

Outfall Description: Concrete MH

Conveyance Type:	Close Pipe
Material:	Manhole - Concrete
Shape:	Manhole - Concrete
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 9/24/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None
Physical Indirectors: None
Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: No
Comments: GPS of supplemental manhole -88.34273377778, 44.24348011111

City of Appleton

100 North Appleton Street

Appleton, WI 54911

(920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AX-45 US2

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: Concrete MH (AX-41) approximately 410 feet west of AX-45 US. Immediate surroudings include street right of way and commercial land.

Outfall Description: Concrete MH

Conveyance Type:	Close Pipe
Material:	Manhole - Concrete
Shape:	Manhole - Concrete
Number of Pipes:	1
Diameter:	24"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 9/24/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Temperature:	19 °C
pH:	7.0 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: GPS of supplemental manhole -88.34442877778, 44.24346680556

City of Appleton

100 North Appleton Street

Appleton, WI 54911

(920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AX-48

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: Southwest pond inlet pipe. (Formerly AX-28-X)

Outfall Description: 36

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	36"
Submerged in Water:	No
Submerged in Sediment:	Partially

Date of Inspection: 8/6/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Slight sediment buildup from when pipe was submerged.

Date of Inspection: 10/7/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:	Colors	Cloudy water observed at time of inspection.
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.35152042640, 44.23893239540.

City of Appleton

100 North Appleton Street

Appleton, WI 54911

(920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: BB-229

Outfall Type: Major

MS4 Jurisdicton: City of Appleton

Outfall Location: (Formerly BB-5-X)

Outfall Description: 48

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	48"
Submerged in Water:	Partially
Submerged in Sediment:	No

Date of Inspection: 8/13/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: None

Date of Inspection: 9/18/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.40684439160, 44.25071514300.

City of Appleton

100 North Appleton Street
Appleton, WI 54911
(920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: BY-3
Outfall Type: Minor
MS4 Jurisdicton: City of Appleton/Town of Grand Chute

Outfall Location: Southwest corner of Lilas Dr/Franklin St intersection
Outfall Description: 18

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/12/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Temperature:	21 °C
pH:	8.4 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: No
Comments: None

Date of Inspection: 9/19/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None
Physical Indirectors: None
Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: No
Comments: Outfall location: -88.45102150000, 44.26354177778.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: CC-116

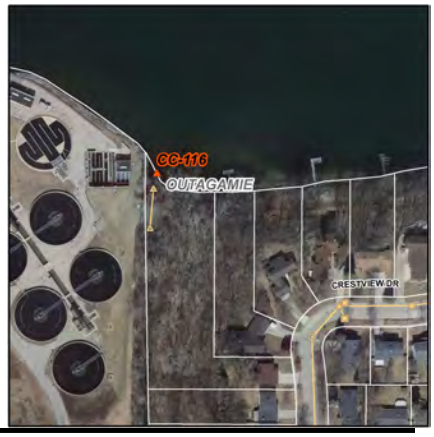
Outfall Type: Major

MS4 Jurisdicton: City of Appleton

Outfall Location: Ravine east of wastewater treatment plant discharges to Fox River through 72 RCP. (Formerly CC-15-X)

Outfall Description: 72

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	72"
Submerged in Water:	No
Submerged in Sediment:	No



Date of Inspection: 8/6/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: None

Date of Inspection: 10/10/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.37096173130,44.26774877540

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: CC-97

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: 72 RCP discharges to ravine from south. (Formerly CC-15-X1)

Outfall Description: 72

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	72"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/6/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Approximate Flow:	2 gpm
Temperature:	13 °C
pH:	8.4 pH Units
Ammonia:	6.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: Yes

Indicator	Description	Severity Index
Odor:		
Color:		
Turbidity:		
Floatables:	Suds	Some, indications of origin; (e.g., possible suds or oil sheen)
Cold Weather:		

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:	Oil Sheen	
Pipe Benthic Growth:		

Overall Outfall Characterization: Potential (Presence of one or more indicators)

Non-Illicit Discharge Concerns: No

Comments: Infrastructure satisfactory. Oil sheen present, brown suds, and a 6.0 ppm ammonia residual present. Source is a cracked storm sewer on the premises of the WWTP, allowing biosolids leachate to enter the outfall. City is presently rehabilitating the pipe of concern.

Date of Inspection: 10/10/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Approximate Flow:	2 gpm
Temperature:	9 °C
pH:	7.5 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: CC-97

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:	Flow Line	
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.37122483180,44.26568023840.
Free chlorine reading: 0 mg/l.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: DD-175

Outfall Type: Minor

MS4 Jurisdicton: City of Appleton

Outfall Location: Outfall #1 at wastewater treatment plant. MS4 drainage per WWTP. No formal outfall name. (Formerly WWTP1)

Outfall Description: 24

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	24"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/6/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:	Oil Sheen	Very slight sheen on standing water in outfall.
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: None

Date of Inspection: 10/8/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:	Flow Line	
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.37534600820,44.26691021180.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: E-58
Outfall Type: Minor
MS4 Jurisdicton: City of Appleton

Outfall Location: 12 PVC discharges to small bay. Ultimately discharges through grate under apartments and into river. (Formerly E-37-X)

Outfall Description: 12

Conveyance Type:	Close Pipe
Material:	PVC
Shape:	Circular
Number of Pipes:	1
Diameter:	12"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 9/1/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Spalling, Cracking Or Chipping	Headwall is cracked around pipe. Exposed rebar below pipe.
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:	Green	

Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: Yes
Comments: None

Date of Inspection: 9/19/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Spalling, Cracking Or Chipping	Structural damage to headwall below pipe.
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: Yes
Comments: Outfall location: -88.40511719580,44.25894455210.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: E-60
Outfall Type: Minor
MS4 Jurisdicton: City of Appleton

Outfall Location: 42 RCP discharges to river. (Formerly E-1-X)
Outfall Description: 42

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	42"
Submerged in Water:	Partially
Submerged in Sediment:	No

Date of Inspection: 9/1/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Approximate Flow:	47 gpm
Temperature:	25 °C
pH:	7.4 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	1.40 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Potential (Presence of one or more indicators)
Non-Illicit Discharge Concerns: No
Comments: Free chlorine 1.4. Jim Becker from inspections notified about the chlorine residual hit.

Date of Inspection: 9/25/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None
Physical Indirectors: None
Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: No
Comments: Outfall location: -88.40248449470,44.25924748790.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: HH-100

Outfall Type: Major

MS4 Jurisdicton: City of Appleton

Outfall Location: 24 RCP discharges to stream. Major outfall due to industrial land use. (Formerly HH-68-X)

Outfall Description: 24

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	24"
Submerged in Water:	Partially
Submerged in Sediment:	No

Date of Inspection: 8/12/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Moderate
Approximate Flow:	170 gpm
Temperature:	25 °C
pH:	8.1 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.40 mg/l
Total Copper:	0.4 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Potential (Presence of one or more indicators)

Non-Illicit Discharge Concerns: No

Comments: Chlorine residual from Foremost Farms. The lack of any benthic growth in pipe or stream bank suggests residual has been sustained and high enough to prevent any normal benthic accumulation. Jim Becker was notified of the chlorine and copper hits.

Date of Inspection: 9/19/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Moderate
Approximate Flow:	284 gpm
Temperature:	21 °C
pH:	7.0 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.80 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:	Soil deposits	
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Potential (Presence of one or more indicators)

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.43654194260,44.25743060010.
Free chlorine reading: 0.80 mg/l.
Jim Becker from City of Appleton notified and was onsite. High level of confidence discharge with elevated chlorine coming from Foremost Farms.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: HH-97

Outfall Type: Major

MS4 Jurisdicton: City of Appleton

Outfall Location: 36x64 CMP discharges to pool of stream. (Formerly HH-1-X)

Outfall Description: 36x64

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Elliptical
Number of Pipes:	1
Size:	38" x 56"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/12/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Moderate
Approximate Flow:	121 gpm
Temperature:	22 °C
pH:	8.5 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.20 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Potential (Presence of one or more indicators)

Non-Illicit Discharge Concerns: No

Comments: Free chlorine 0.2. Pipe was replaced. No erosion control devices in place and no established vegetation at time of inspection.

Date of Inspection: 9/19/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Moderate
Approximate Flow:	304 gpm
Temperature:	18 °C
pH:	7.4 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Corrosion	Top of pipe is dented and is corroded.
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: Yes

Comments: Outfall location: -88.45137418390,44.25235578100.
Free chlorine reading: 0 mg/l.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: J-141

Outfall Type: Major

MS4 Jurisdicton: City of Appleton

Outfall Location: Storm sewer discharges to river from south. (Formerly J-1-X)

Outfall Description: 72

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Circular
Number of Pipes:	1
Diameter:	72"
Submerged in Water:	Partially
Submerged in Sediment:	No

Date of Inspection: 8/6/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		Fox River essentially partially submerging this outfall
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: None

Date of Inspection: 10/10/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.3621361610044.27171624580.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: KK-19

Outfall Type: Major

MS4 Jurisdicton: City of Appleton

Outfall Location: E South Island St (Formerly KK-17-X)

Outfall Description: 24

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Circular
Number of Pipes:	1
Diameter:	24"
Submerged in Water:	Partially
Submerged in Sediment:	No

Date of Inspection: 9/2/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: None

Date of Inspection: 9/18/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:	Colors	Cloudy water observed at time of inspection.
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.40174418970, 44.25621812730.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: KK-21

Outfall Type: Major

MS4 Jurisdicton: City of Appleton

Outfall Location: E South Island St

Outfall Description: 12

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	12"
Submerged in Water:	Partially
Submerged in Sediment:	No

Date of Inspection: 9/2/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: None

Date of Inspection: 9/18/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.39894358030,44.25642231140.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: KK-61

Outfall Type: Minor

MS4 Jurisdicton: City of Appleton

Outfall Location: E South Island St

Outfall Description: 12

Conveyance Type:	Close Pipe
Material:	STEEL
Shape:	Circular
Number of Pipes:	1
Diameter:	12"
Submerged in Water:	Partially
Submerged in Sediment:	No

Date of Inspection: 9/2/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall inspection from 2014 may have been inaccurate, as there are two outfall pipes in the vicinity. Map shows flow for this outfall coming from the north. Picture from 2014 shows pipe coming from the south (inside industrial site). Top picture is of pipe from the north.

Date of Inspection: 9/18/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.40053396170,44.25643178500.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: KK-66

Outfall Type: Minor

MS4 Jurisdicton: City of Appleton

Outfall Location: 24 CMP discharges to river. (Formerly KK-1-X)

Outfall Description: 24

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Circular
Number of Pipes:	1
Diameter:	24"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/13/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:	Green	

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Pipe is wet, but just a slight standing water.

Date of Inspection: 9/18/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.40318604360,44.25377394500.
Outfall not accessible due to 6 ft ledge off the sidewalk by Between the Locks.
Outfall and riprap partially submerged at time of inspection. Outfall changed to RCP pipe with end section.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: KK-68

Outfall Type: Minor

MS4 Jurisdicton: City of Appleton

Outfall Location: 18 RCP discharges into river. (Formerly KK-44-X)

Outfall Description: 18

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	Partially
Submerged in Sediment:	No

Date of Inspection: 9/2/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: None

Date of Inspection: 9/18/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.39591783540,44.25732573460.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: KK-78 US

Outfall Type: Minor - Alternate Location

MS4 Jurisdicton: City of Appleton

Outfall Location: Upstream curb inlet (KK-46A) located approx 10 ft NE of outfall KK-46-X. Intermediate area consists of street right-of -way. (Formerly KK-46-X US1)

Outfall Description: Concrete MH

Conveyance Type:	Close Pipe
Material:	Manhole - Concrete
Shape:	Manhole/Catchbasin
Number of Pipes:	1
Diameter:	15"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 9/2/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: None

Date of Inspection: 9/18/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: GPS verified. -88.39775541667, 44.25654177778. Backwash from river into outfall. Upstream manhole flow verified.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: N-319 U

Outfall Type: Major - Alternate Location

MS4 Jurisdicton: City of Appleton

Outfall Location: Upstream manhole located approx 43 ft SE of outfall N-2-X. Intermediate area consists of recreation trail and open space. (Formerly N-2-X US)

Outfall Description: Concrete MH

Conveyance Type:	Close Pipe
Material:	Concrete MH
Shape:	Circular
Number of Pipes:	1
Diameter:	60"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/6/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 0

Flow: Yes

Flow Description:	Trickle
Temperature:	18 °C
pH:	8.1 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall N-319 screened at upstream manhole. Flow in manhole, but calculating flow not possible without confined space entry. GPS of supplemental manhole -88.38732611111, 44.25936002778.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: N-363
Outfall Type: Supplemental
MS4 Jurisdicton: City of Appleton

Outfall Location: 72 RCP from Fremont St discharges to riprap channel. (Formerly N-72-X)

Outfall Description: 72

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	72"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 9/15/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Approximate Flow:	109 gpm
Temperature:	20 °C
pH:	7.4 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: No
Comments: None

Date of Inspection: 10/8/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Approximate Flow:	15 gpm
Temperature:	11 °C
pH:	7.5 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Graffiti	
Deposits / Stains:	Flow Line	
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: Yes
Comments: Outfall location: -88.38809795840, 44.25127539730.
Free chlorine reading: 0 mg/l.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: P-85 US

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: Concrete MH approximately 111 feet west of P-85 on north side of eastbound 441 offramp at Oneida St. Immediate area includes street and highway right of way.

Outfall Description: Concrete MH

Conveyance Type:	Close Pipe
Material:	Manhole - Concrete
Shape:	Manhole - Concrete
Number of Pipes:	1
Diameter:	54"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 9/24/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Temperature:	18 °C
pH:	7.0 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: GPS of supplemental outfall -88.40429375000, 44.23319844444

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: PP-22

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: 66 RCP from Roemer Rd discharges to concrete spillway and flows to concrete channel on south side of Northland Av. (Formerly PP-1-X)

Outfall Description: 66

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	66"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/28/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:	Flow Line	
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: None

Date of Inspection: 10/6/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:	Flow Line	
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.36836406960, 44.28712740140.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: PP-27
Outfall Type: Supplemental
MS4 Jurisdicton: City of Appleton

Outfall Location: 66 RCP from Roemer Rd discharges to NW corner of Conkey Pond. (Formerly PP-33-X)

Outfall Description: 66

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	66"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/28/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Approximate Flow:	7 gpm
Temperature:	20 °C
pH:	8.3 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:	Green	

Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: No
Comments: None

Date of Inspection: 10/7/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Approximate Flow:	5 gpm
Temperature:	13 °C
pH:	7.3 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:	Green	

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: PP-27

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.36465670150, 44.28532139530.
Free chlorine reading: 0 mg/l

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: PP-32
Outfall Type: Supplemental
MS4 Jurisdicton: City of Appleton

Outfall Location: Conkey Pond outfall discharges to channel from south. (Formerly PP-31-X)

Outfall Description: 36

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	36"
Submerged in Water:	Partially
Submerged in Sediment:	No

Date of Inspection: 8/28/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Approximate Flow:	4 gpm
Temperature:	20 °C
pH:	8.2 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: Yes

Indicator	Description	Severity Index
Odor:		
Color:		
Turbidity:	See Severity	Slight Cloudiness
Floatables:		
Cold Weather:		

Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: No
Comments: Slight turbidity in sample.

Date of Inspection: 10/6/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:	Flow Line	
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:	Green	

Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: No
Comments: Outfall location: -88.36378892790, 44.28575909570.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: QQ-58
Outfall Type: Supplemental
MS4 Jurisdicton: City of Appleton

Outfall Location: 66 RCP discharges to Pershing Pond from south. (Formerly QQ-41-X)

Outfall Description: 66

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	66"
Submerged in Water:	Partially
Submerged in Sediment:	No

Date of Inspection: 9/2/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None
Physical Indirectors: None
Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: No
Comments: None

Date of Inspection: 10/7/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:	Colors	Cloudy water observed at time of inspection.
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: No
Comments: Outfall location: -88.35800118950, 44.28537130980.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: QQ-59
Outfall Type: Supplemental
MS4 Jurisdicton: City of Appleton

Outfall Location: 36 RCP discharges to Pershing Pond from south. (Formerly QQ-41-X2)

Outfall Description: 36

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	36"
Submerged in Water:	Partially
Submerged in Sediment:	No

Date of Inspection: 9/2/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None
Physical Indirectors: None
Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: No
Comments: None

Date of Inspection: 10/7/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:	Colors	Cloudy water observed at time of inspection.
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: No
Comments: Outfall location: -88.35900802210, 44.28533328950.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: QQ-60
Outfall Type: Major
MS4 Jurisdicton: City of Appleton

Outfall Location: Pershing Pond discharges to stream from south. Backflow baffle installed. Replaces QQ-26-X pipe (from before pond). (Formerly QQ-26-X2)

Outfall Description: 12

Conveyance Type:	Close Pipe
Material:	PVC
Shape:	Circular
Number of Pipes:	1
Diameter:	12"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 9/2/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Approximate Flow:	4 gpm
Temperature:	29 °C
pH:	8.1 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: No
Comments: None

Date of Inspection: 10/7/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Temperature:	14 °C
pH:	8.1 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: No
Comments: Outfall location: -88.35802614330, 44.28624646370.
Free chlorine reading: 0 mg/l.
Flow data hard to quantify due to backflow baffle.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: RR-25
Outfall Type: Supplemental
MS4 Jurisdicton: City of Appleton

Outfall Location: 18 RCP from Northland Av curb inlets discharges to channel from north. (Formerly RR-19-X)

Outfall Description: 18

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 9/15/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:		
Abnormal Vegetation:	Excessive	
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: Yes
Comments: Outfall is overgrown in picture and obscured by growth.

Date of Inspection: 10/7/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None
Physical Indirectors: None
Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: No
Comments: Outfall location: -88.36498395110,44.28718671600.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: RR-26

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: 18 RCP from Northland Av curb inlets discharges to concrete box culvert from north. No GPS in culvert. (Formerly RR-20-X)

Outfall Description: 18

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 9/15/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

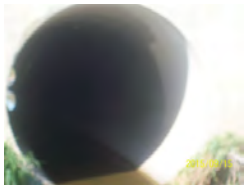
Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: None



Date of Inspection: 10/6/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:	Flow Line	
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.36587916760, 44.28718533580.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: RR-29
Outfall Type: Supplemental
MS4 Jurisdicton: City of Appleton

Outfall Location: Conkey St storm sewer discharges to concrete spillway and flows 28 ft to concrete channel. (Formerly RR-1-X)

Outfall Description: 48

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	48"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 9/15/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Approximate Flow:	10 gpm
Temperature:	22 °C
pH:	7.8 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:	Green	

Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: No
Comments: None

Date of Inspection: 10/6/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Approximate Flow:	3 gpm
Temperature:	15 °C
pH:	7.5 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:	Green	

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: RR-29

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.36381363490, 44.28685596960.
Free chlorine reading: 0 mg/l.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-30

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: 36 CMP from Roemer Rd discharges into box culvert under Roemer Rd from north. No GPS in culvert. (Formerly SS-1-X)

Outfall Description: 36

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Circular
Number of Pipes:	1
Diameter:	36"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/28/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Approximate Flow:	1 gpm
Temperature:	20 °C
pH:	8.4 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Corrision	
Deposits / Stains:	Flow Line	
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: Yes

Comments: None

Date of Inspection: 10/6/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Approximate Flow:	1 gpm
Temperature:	14 °C
pH:	7.4 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: None

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-30

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Corrosion	
Deposits / Stains:	Flow Line	
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: Yes

Comments: Outfall location: -88.36862507440, 44.28719702200.
Free chlorine reading: 0 mg/l.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-32

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: 18 RCP from Northland Av curb inlets discharges to concrete channel from north. (Formerly SS-0-X1)

Outfall Description: 18

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/28/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Spalling, Cracking Or Chipping	
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: Yes

Comments: None

Date of Inspection: 10/6/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.37414195130, 44.28718116300.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-33

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: 18 RCP from Northland Av curb inlets discharges to concrete channel from north. (Formerly SS-0-X2)

Outfall Description: 18

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/28/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Spalling, Cracking Or Chipping	Concrete apron is cracked.
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: Yes

Comments: None

Date of Inspection: 10/6/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Spalling, Cracking Or Chipping	Concrete apron appears to have been patched, but difficult to ascertain if undercutting is still occurring.
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: Yes

Comments: Outfall location: -88.37336153930, 44.28718627910.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-35

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: 18 RCP from Northland Av curb inlets discharges to concrete channel from north. (Formerly SS-0-X4)

Outfall Description: 18

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/28/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Spalling, Cracking Or Chipping	One side of the concrete apron is chipped.
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: Yes

Comments: None

Date of Inspection: 10/6/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Spalling, Cracking Or Chipping	
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: Yes

Comments: Outfall location: -88.37176009330, 44.28719439520.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-36

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: 18 RCP from Northland Av curb inlets discharges to concrete channel from north. (Formerly SS-0-X5)

Outfall Description: 18

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/28/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: None

Date of Inspection: 10/6/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.37099340100, 44.28720097930

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-39

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: 18 RCP from Northland Av curb inlets discharges to concrete channel from north. (Formerly SS-0-X6)

Outfall Description: 18

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	Partially

Date of Inspection: 8/28/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Temperature:	20 °C
pH:	8.0 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:	Green	

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Very slight flow. <.25 gpm, hard to quantify. Benthic growth present in flow.

Date of Inspection: 10/6/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Approximate Flow:	5 gpm
Temperature:	14 °C
pH:	6.8 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:	Green	

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-39

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.37023304650, 44.28720516930.
Free chlorine reading: 0 mg/l.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: TT-28

Outfall Type: Major

MS4 Jurisdicton: City of Appleton

Outfall Location: Storm sewer discharges to Red Oak Ravine. (Formerly TT-26-X)

Outfall Description: 72

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	72"
Submerged in Water:	Partially
Submerged in Sediment:	No

Date of Inspection: 9/15/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Approximate Flow:	1 gpm
Temperature:	19 °C
pH:	7.6 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: Yes

Indicator	Description	Severity Index
Odor:		
Color:		
Turbidity:		
Floatables:	Suds	Few / Slight; orgin not obvious
Cold Weather:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: None

Date of Inspection: 9/18/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:	Excessive Algae	Temper flow diversion for Red Oak Ravine construction.
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.42159495720, 44.24113659840.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-136 U

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: Concrete MH approximately 440 feet east of V-136. Immediate area includes street right of way and residential land.

Outfall Description: Concrete MH

Conveyance Type:	Close Pipe
Material:	Manhole - Concrete
Shape:	Manhole - Concrete
Number of Pipes:	1
Diameter:	30"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 9/24/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: GPS of manhole -88.41387541667, 44.29283511111

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: W-260

Outfall Type: Major

MS4 Jurisdicton: City of Appleton

Outfall Location: 48x68 CMP extends under dock and discharges into river by yacht club. (Formerly W-1-X)

Outfall Description: 48x68

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Arch
Number of Pipes:	1
Size:	48" x 68"
Submerged in Water:	Partially
Submerged in Sediment:	No

Date of Inspection: 8/28/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Temperature:	20 °C
pH:	8.7 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: Yes

Indicator	Description	Severity Index
Odor:		
Color:		
Turbidity:		
Floatables:	Suds	Few / Slight; orgin not obvious
Cold Weather:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Flow present. Trickle, quantifying difficult without boat.

Date of Inspection: 9/19/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.42047209260, 44.25085275310.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: Y-336
Outfall Type: Supplemental
MS4 Jurisdicton: City of Appleton

Outfall Location: 54 RCP discharges to riprap channel. Ultimately discharges through NN-1-X. (Formerly Y-266-X)

Outfall Description: 54

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	54"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 9/2/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Moderate
Approximate Flow:	210 gpm
Temperature:	27 °C
pH:	6.9 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	1.60 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Potential (Presence of one or more indicators)
Non-Illicit Discharge Concerns: No
Comments: Complete lack of benthic growth suggests constant chlorine residual. Jim Becker was notified of the chlorine hit.

Date of Inspection: 9/26/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Approximate Flow:	31 gpm
Temperature:	19 °C
pH:	7.4 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.60 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Graffiti	
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Potential (Presence of one or more indicators)
Non-Illicit Discharge Concerns: Yes
Comments: Outfall location: -88.39110664910, 44.27113130900.
Free and total chlorine readings: 0.60 mg/l. Flow appears to be coming from Appvion, formerly Appleton Coated. Contacted Jim Becker regarding the detect.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: BU-11
Outfall Type: Major
MS4 Jurisdicton: City of Appleton

Outfall Location: Storm sewer from Red Oak Ravine discharges to Fox River from south. (Formerly BU-1-X)

Outfall Description: 72

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	72"
Submerged in Water:	Partially
Submerged in Sediment:	No

Date of Inspection: 9/15/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None
Physical Indirectors: None
Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: No
Comments: -88.42444708333, 44.24479511111

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: BU-12

Outfall Type: Major

MS4 Jurisdicton: City of Appleton

Outfall Location: 36 RCP discharges to riprap channel that flows to river. (Formerly BU-3-X)

Outfall Description: 36

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	36"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 9/15/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: -88.42450208333, 44.24411844444

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: EE-195

Outfall Type: Major

MS4 Jurisdicton: City of Appleton

Outfall Location: Shown as 48 on storm sewer map. Measured 36. (Formerly EE-1-X)

Outfall Description: 36

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	36"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 9/1/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Moderate
Approximate Flow:	138 gpm
Temperature:	19 °C
pH:	7.8 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: -88.41723875000, 44.25286222222

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: F-43

Outfall Type: Major

MS4 Jurisdicton: City of Appleton

Outfall Location: 49x79 CMP discharges to river through concrete headwall. (Formerly F-7-X)

Outfall Description: 49x79

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Elliptical
Number of Pipes:	1
Size:	79" x 49"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 9/1/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Approximate Flow:	17 gpm
Temperature:	19 °C
pH:	7.8 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: -88.40996113889, 44.25549502778

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: FF-108
Outfall Type: Major
MS4 Jurisdicton: City of Appleton

Outfall Location: Stone, brick and concrete pipe arch. (Formerly FF-42-X)
Outfall Description: 55x70

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Arch
Number of Pipes:	1
Size:	55" x 70"
Submerged in Water:	Partially
Submerged in Sediment:	No

Date of Inspection: 9/15/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Spalling, Cracking Or Chipping	
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: Yes
Comments: -88.42229708333, 44.24577333333

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: II-48

Outfall Type: Major

MS4 Jurisdicton: City of Appleton

Outfall Location: 36 CMP discharges to river. (Formerly II-1-X)

Outfall Description: 36

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Circular
Number of Pipes:	1
Diameter:	36"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/12/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Approximate Flow:	9 gpm
Temperature:	20 °C
pH:	8.5 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: Yes

Indicator	Description	Severity Index
Odor:		
Color:	Brown	Clearly Visible in Outfall Flow
Turbidity:	See Severity	Opaque
Floatables:		
Cold Weather:		

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Corrision	
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:	Colors	
Pipe Benthic Growth:		

Overall Outfall Characterization: Potential (Presence of one or more indicators)

Non-Illicit Discharge Concerns: Yes

Comments: -88.44043375000, 44.24443011111. Severe pipe corrosion, pipe and pan are perforating. Major soil erosion contributing to this outfall. pH and temp only analyzed, as the turbidity will skew the colorimeter results. Green Bay Pipe & TV was televising and cleaning pipes nearby, likely the source of the color and turbidity.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: BM-97

Outfall Type: Major

MS4 Jurisdicton: City of Appleton

Outfall Location: Box culvert approximately 160 feet south of CTH JJ; west of Holland Rd

Outfall Description: Box culvert

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Box
Number of Pipes:	1
Size:	17" x 3"
Submerged in Water:	Partially
Submerged in Sediment:	No

Date of Inspection: 9/15/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Temperature:	22 °C
pH:	7.6 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Slight flow. Jim Becker from Appleton inspections warned about dumping of grease from Stone Yard. No floatables or sheen present. Due to low flow, wind, and a wide channel, quantifying flow difficult. -88.33572297222, 44.31551897222

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AJ-13

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: Discharges to concrete channel leading to outfall. (Formerly AJ-5-X)

Outfall Description: 24

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	24"
Submerged in Water:	No
Submerged in Sediment:	Partially

Date of Inspection: 8/6/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Some sediment buildup in channel. -88.40838041667, 44.23647177778

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OUTFALL FIELD SCREENING WORKSHEET

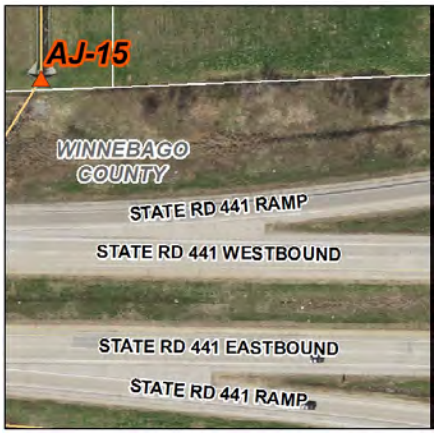
Outfall ID: AJ-15

Outfall Type: Minor

MS4 Jurisdicton: City of Appleton

Outfall Location: Concrete channel discharges into STH 441 right-of-way through one 24 RCP and two elevated 15 RCP. (Formerly SV-X)

Outfall Description: 24



Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	3
Diameter:	24"
Submerged in Water:	No
Submerged in Sediment:	Partially

Date of Inspection: 8/6/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:	Flow Line	
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: -88.40839375000, 44.23433844444

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AK-9

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: Schindler Pl storm sewer discharges to concrete channel from west. (Formerly AK-6-X)

Outfall Description: 30

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	30"
Submerged in Water:	No
Submerged in Sediment:	Partially

Date of Inspection: 8/6/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:	Green	

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: -88.40846208333, 44.23529844444

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AL-3

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: Schindler Pl storm sewer discharges to concrete channel from west. (Formerly AL-1-X)

Outfall Description: 18

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	Partially

Date of Inspection: 8/6/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:	Green	

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: -88.40844708333, 44.23605844444

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: BB-226

Outfall Type: Minor

MS4 Jurisdicton: City of Appleton

Outfall Location: 18 CMP (east pipe) discharges to ravine. Actual outfall where ravine enters river. 18 CMP culvert from golf course immediately west of BB-1-X. (Formerly BB-1-X)

Outfall Description: 18

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	Partially

Date of Inspection: 8/13/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow:	None
Physical Indirectors:	None
Overall Outfall Characterization:	Unlikely
Non-Illicit Discharge Concerns:	No
Comments:	-88.41126541667, 44.25131677778

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: FF-115

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: Cherry Ct storm sewer discharges to ravine. (Formerly FF-4-X)

Outfall Description: 15

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Circular
Number of Pipes:	1
Diameter:	15"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 9/15/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Corrision	Slight corrosion
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: Yes

Comments: -88.41779041667, 44.24411511111

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: GG-68

Outfall Type: Minor

MS4 Jurisdicton: City of Appleton

Outfall Location: 24 RCP extends through concrete headwall and discharges into river. (Formerly GG-56-X)

Outfall Description: 24

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	24"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/12/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	
Approximate Flow:	8 gpm
Temperature:	20 °C
pH:	8.7 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:	Green	

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: -88.43486541667, 44.24589677778

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: GG-69

Outfall Type: Minor

MS4 Jurisdicton: City of Appleton

Outfall Location: 18 CMP extends through concrete wall and discharges into river. (Formerly GG-1-X)

Outfall Description: 18

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	Partially
Submerged in Sediment:	No

Date of Inspection: 8/13/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Corrision	
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: Yes

Comments: -88.42302708333, 44.24785344444. Pipe is slightly bent.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: GG-71

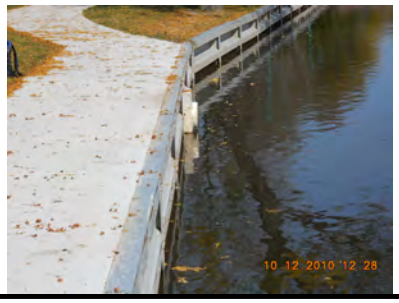
Outfall Type: Minor

MS4 Jurisdicton: City of Appleton

Outfall Location: 12 PVC extends through concrete wall and discharges into river. (Formerly GG-1-X4)

Outfall Description: 12

Conveyance Type:	Close Pipe
Material:	PVC
Shape:	Circular
Number of Pipes:	1
Diameter:	12"
Submerged in Water:	No
Submerged in Sediment:	No



Date of Inspection: 8/13/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow:	None
Physical Indirectors:	None
Overall Outfall Characterization:	Unlikely
Non-Illicit Discharge Concerns:	No
Comments:	-88.42289208333, 44.24823011111

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: GG-73

Outfall Type: Minor

MS4 Jurisdicton: City of Appleton

Outfall Location: 12 PVC discharges into river. (Formerly GG-1-X2)

Outfall Description: 12

Conveyance Type:	Close Pipe
Material:	PVC
Shape:	Circular
Number of Pipes:	1
Diameter:	12"
Submerged in Water:	Partially
Submerged in Sediment:	No

Date of Inspection: 8/13/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: -88.42220875000, 44.24900344444

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: GG-75

Outfall Type: Minor

MS4 Jurisdicton: City of Appleton

Outfall Location: 12 PVC extends through retaining wall and discharges into river. (Formerly GG-1-X3)

Outfall Description: 12

Conveyance Type:	Close Pipe
Material:	PVC
Shape:	Circular
Number of Pipes:	1
Diameter:	12"
Submerged in Water:	Partially
Submerged in Sediment:	No

Date of Inspection: 8/13/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow:	None
Physical Indirectors:	None
Overall Outfall Characterization:	Unlikely
Non-Illicit Discharge Concerns:	No
Comments:	-88.42089041667, 44.24976511111

City of Appleton

100 North Appleton Street

Appleton, WI 54911

(920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: GG-76

Outfall Type: Minor

MS4 Jurisdicton: City of Appleton

Outfall Location: 30 CMP extends through concrete headwall and discharges into river. (Formerly GG-13-X)

Outfall Description: 30

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Circular
Number of Pipes:	1
Diameter:	30"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/13/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Corrision	
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: Yes

Comments: -88.42817208333, 44.24500677778

City of Appleton

100 North Appleton Street

Appleton, WI 54911

(920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: GG-77

Outfall Type: Minor

MS4 Jurisdicton: City of Appleton

Outfall Location: 12 CMP discharges to swale. Actual outfall is location where swale enters river. No GPS signal available - location is approximate. (Formerly GG-19-X)

Outfall Description: 12

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Circular
Number of Pipes:	1
Diameter:	12"
Submerged in Water:	No
Submerged in Sediment:	Partially

Date of Inspection: 8/12/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: -88.43062708333, 44.24631011111

City of Appleton

100 North Appleton Street

Appleton, WI 54911

(920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: H-60

Outfall Type: Minor

MS4 Jurisdicton: City of Appleton

Outfall Location: 36 CMP extends from north bank and discharges into river. (Formerly H-1-X)

Outfall Description: 36

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Circular
Number of Pipes:	1
Diameter:	36"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 9/2/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Temperature:	23 °C
pH:	6.5 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Corrision	Bottom third of pipe is completely corroded away.
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: Yes

Comments: Flowing, but accessibility diffucult due to steep bank for quantifying flow data. GPS is -88.39721708333, 44.25932844444. No detect on flowing parameters.

City of Appleton

100 North Appleton Street

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: I-33 US2

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: Concrete MH (I-2) approximately 100 feet north of I-33 US1. Immediate area includes street right of way and woods.

Outfall Description: Concrete MH

Conveyance Type:	Close Pipe
Material:	Manhole - Concrete
Shape:	Manhole - Concrete
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 9/1/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Temperature:	19 °C
pH:	8.3 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Could not get lid off of yard drain, so outfall screened at manhole 100 feet to north of yard drain. GPS of upstream manhole -88.41931902778, 44.25242197222

City of Appleton

100 North Appleton Street

Appleton, WI 54911

(920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: KK-62

Outfall Type: Minor

MS4 Jurisdicton: City of Appleton

Outfall Location:

Outfall Description: 12

Conveyance Type:	Close Pipe
Material:	PVC
Shape:	Circular
Number of Pipes:	1
Diameter:	12"
Submerged in Water:	Partially
Submerged in Sediment:	No

Date of Inspection: 9/2/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: -88.40125208333, 44.25631511111

City of Appleton

100 North Appleton Street

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: KK-65

Outfall Type: Minor

MS4 Jurisdicton: City of Appleton

Outfall Location: 15 PVC discharges to river west of bridge. (Formerly KK-28 -X)

Outfall Description: 15

Conveyance Type:	Close Pipe
Material:	PVC
Shape:	Circular
Number of Pipes:	1
Diameter:	15"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/13/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	
Approximate Flow:	0 gpm
Temperature:	20 °C
pH:	8.1 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: -88.40387041667, 44.25379344444

City of Appleton

100 North Appleton Street

Appleton, WI 54911

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: LL-24 US3

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: Concrete MH (LL-23) approximately 44 feet NW of LL-24. Immediate area includes street right-of-way.

Outfall Description: Concrete MH

Conveyance Type:	Close Pipe
Material:	Manhole - Concrete
Shape:	Manhole - Concrete
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 10/1/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 48

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: -88.40587375000, 44.25881511111

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: LL-25 US1

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: Concrete catch basin approximately 30 feet NNW of LL-25. Immediate area includes street right of way, woods, and open space.

Outfall Description: Concrete MH

Conveyance Type:	Close Pipe
Material:	Manhole - Concrete
Shape:	Manhole - Concrete
Number of Pipes:	1
Diameter:	10"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 9/1/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: -88.40628875000, 44.25853844444

City of Appleton

100 North Appleton Street

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: M-10

Outfall Type: Minor

MS4 Jurisdicton: City of Appleton

Outfall Location: 15 CMP discharges to river. (Formerly M-1-X)

Outfall Description: 15

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Circular
Number of Pipes:	1
Diameter:	15"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/13/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: -88.40155875000, 44.25401166667

APPENDIX C

2015 Outfall Non-Illicit Discharge Concerns

City of Appleton

100 North Appleton Street

Appleton, WI 54911

(920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AC-12

Outfall Type: Minor

MS4 Jurisdicton: City of Appleton

Outfall Location: 8 PVC discharges to USH 41 right-of-way.

Outfall Description: 8

Conveyance Type:	Close Pipe
Material:	PVC
Shape:	Circular
Number of Pipes:	1
Diameter:	8"
Submerged in Water:	No
Submerged in Sediment:	Partially

Date of Inspection: 8/28/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow:	None
Physical Indirectors:	None
Overall Outfall Characterization:	Unlikely
Non-Illicit Discharge Concerns:	Yes
Comments:	Outfall pipe is 3/4 full of landscape mulch/ debris and is in need of cleaning.

Date of Inspection: 10/7/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow:	None
Physical Indirectors:	None
Overall Outfall Characterization:	Unlikely
Non-Illicit Discharge Concerns:	No
Comments:	Outfall location: -88.41999623960, 44.29819938790.

City of Appleton

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: E-58
Outfall Type: Minor
MS4 Jurisdicton: City of Appleton

Outfall Location: 12 PVC discharges to small bay. Ultimately discharges through grate under apartments and into river. (Formerly E-37-X)

Outfall Description: 12

Conveyance Type:	Close Pipe
Material:	PVC
Shape:	Circular
Number of Pipes:	1
Diameter:	12"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 9/1/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Spalling, Cracking Or Chipping	Headwall is cracked around pipe. Exposed rebar below pipe.
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:	Green	

Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: Yes
Comments: None

Date of Inspection: 9/19/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Spalling, Cracking Or Chipping	Structural damage to headwall below pipe.
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: Yes
Comments: Outfall location: -88.40511719580,44.25894455210.

City of Appleton

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: FF-108
Outfall Type: Major
MS4 Jurisdicton: City of Appleton

Outfall Location: Stone, brick and concrete pipe arch. (Formerly FF-42-X)
Outfall Description: 55x70

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Arch
Number of Pipes:	1
Size:	55" x 70"
Submerged in Water:	Partially
Submerged in Sediment:	No

Date of Inspection: 9/15/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Spalling, Cracking Or Chipping	
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: Yes
Comments: -88.42229708333, 44.24577333333

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: FF-115

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: Cherry Ct storm sewer discharges to ravine. (Formerly FF-4-X)

Outfall Description: 15

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Circular
Number of Pipes:	1
Diameter:	15"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 9/15/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Corrision	Slight corrosion
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: Yes

Comments: -88.41779041667, 44.24411511111

City of Appleton

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: GG-69

Outfall Type: Minor

MS4 Jurisdicton: City of Appleton

Outfall Location: 18 CMP extends through concrete wall and discharges into river. (Formerly GG-1-X)

Outfall Description: 18

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	Partially
Submerged in Sediment:	No

Date of Inspection: 8/13/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Corrision	
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: Yes

Comments: -88.42302708333, 44.24785344444. Pipe is slightly bent.

City of Appleton

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Appleton, WI 54911

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: GG-76

Outfall Type: Minor

MS4 Jurisdicton: City of Appleton

Outfall Location: 30 CMP extends through concrete headwall and discharges into river. (Formerly GG-13-X)

Outfall Description: 30

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Circular
Number of Pipes:	1
Diameter:	30"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/13/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Corrision	
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: Yes

Comments: -88.42817208333, 44.24500677778

City of Appleton

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: H-60

Outfall Type: Minor

MS4 Jurisdicton: City of Appleton

Outfall Location: 36 CMP extends from north bank and discharges into river. (Formerly H-1-X)

Outfall Description: 36

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Circular
Number of Pipes:	1
Diameter:	36"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 9/2/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Temperature:	23 °C
pH:	6.5 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Corrision	Bottom third of pipe is completely corroded away.
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: Yes

Comments: Flowing, but accessibility diffucult due to steep bank for quantifying flow data. GPS is -88.39721708333, 44.25932844444. No detect on flowing parameters.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: II-48

Outfall Type: Major

MS4 Jurisdicton: City of Appleton

Outfall Location: 36 CMP discharges to river. (Formerly II-1-X)

Outfall Description: 36

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Circular
Number of Pipes:	1
Diameter:	36"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/12/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Approximate Flow:	9 gpm
Temperature:	20 °C
pH:	8.5 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: Yes

Indicator	Description	Severity Index
Odor:		
Color:	Brown	Clearly Visible in Outfall Flow
Turbidity:	See Severity	Opaque
Floatables:		
Cold Weather:		

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Corrision	
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:	Colors	
Pipe Benthic Growth:		

Overall Outfall Characterization: Potential (Presence of one or more indicators)

Non-Illicit Discharge Concerns: Yes

Comments: -88.44043375000, 44.24443011111. Severe pipe corrosion, pipe and pan are perforating. Major soil erosion contributing to this outfall. pH and temp only analyzed, as the turbidity will skew the colorimeter results. Green Bay Pipe & TV was televising and cleaning pipes nearby, likely the source of the color and turbidity.

City of Appleton

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: RR-25
Outfall Type: Supplemental
MS4 Jurisdicton: City of Appleton

Outfall Location: 18 RCP from Northland Av curb inlets discharges to channel from north. (Formerly RR-19-X)

Outfall Description: 18

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 9/15/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:		
Abnormal Vegetation:	Excessive	
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: Yes
Comments: Outfall is overgrown in picture and obscured by growth.

Date of Inspection: 10/7/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None
Physical Indirectors: None
Overall Outfall Characterization: Unlikely
Non-Illicit Discharge Concerns: No
Comments: Outfall location: -88.36498395110,44.28718671600.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-30

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: 36 CMP from Roemer Rd discharges into box culvert under Roemer Rd from north. No GPS in culvert. (Formerly SS-1-X)

Outfall Description: 36

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Circular
Number of Pipes:	1
Diameter:	36"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/28/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Approximate Flow:	1 gpm
Temperature:	20 °C
pH:	8.4 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Corrision	
Deposits / Stains:	Flow Line	
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: Yes

Comments: None

Date of Inspection: 10/6/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Approximate Flow:	1 gpm
Temperature:	14 °C
pH:	7.4 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: None

City of Appleton

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-30

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Corrosion	
Deposits / Stains:	Flow Line	
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: Yes

Comments: Outfall location: -88.36862507440, 44.28719702200.
Free chlorine reading: 0 mg/l.

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(920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-32

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: 18 RCP from Northland Av curb inlets discharges to concrete channel from north. (Formerly SS-0-X1)

Outfall Description: 18

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/28/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Spalling, Cracking Or Chipping	
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: Yes

Comments: None

Date of Inspection: 10/6/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indirectors: None

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: No

Comments: Outfall location: -88.37414195130, 44.28718116300.

City of Appleton

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-33

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: 18 RCP from Northland Av curb inlets discharges to concrete channel from north. (Formerly SS-0-X2)

Outfall Description: 18

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/28/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Spalling, Cracking Or Chipping	Concrete apron is cracked.
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: Yes

Comments: None

Date of Inspection: 10/6/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Spalling, Cracking Or Chipping	Concrete apron appears to have been patched, but difficult to ascertain if undercutting is still occurring.
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: Yes

Comments: Outfall location: -88.37336153930, 44.28718627910.

City of Appleton

100 North Appleton Street

Appleton, WI 54911

(920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-35

Outfall Type: Supplemental

MS4 Jurisdicton: City of Appleton

Outfall Location: 18 RCP from Northland Av curb inlets discharges to concrete channel from north. (Formerly SS-0-X4)

Outfall Description: 18

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/28/2015 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Spalling, Cracking Or Chipping	One side of the concrete apron is chipped.
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: Yes

Comments: None

Date of Inspection: 10/6/2014 **Inspector: Nolan Knapp** Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Spalling, Cracking Or Chipping	
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		

Overall Outfall Characterization: Unlikely

Non-Illicit Discharge Concerns: Yes

Comments: Outfall location: -88.37176009330, 44.28719439520.

REQUEST	REQ TYPE DESC	REQUEST DESC	PARCEL #	HOUSE NUMBER	DIR N/S E/W	STREET NAME	STR TYP	REQST STAT	ASSIGNED TO EMP	DATEISS	ADD	OWNER LAST NAME	OWNER FIRST NAME
120082	ILLICIT DISCHARGE	GREASE OVERFLOWING TWO (2) 55 GAL. DRUMS LEAKING	31-5-1070-00	111	N	WALNUT	ST	C	6,558	1/5/2015	111 N WALNUT ST	COLLEGE AVENUE	ASSOCIATES
123366	ILLICIT DISCHARGE	DISCHARGE OF UNKNOWN MATERIAL	31-4-0282-04	820	S	OLDE ONEIDA	ST	C	6,558	4/14/2015	820 S OLDE ONEIDA ST	CBC COATING INC	
126535	ILLICIT DISCHARGE	DUMPING MOP WATER INTO PARKING LOT	31-6-7653-00	201	W	NORTHLAND	AVE	C	6,558	6/11/2015	201 W NORTHLAND AVE	MISSOURI REAL ESTATE &	INS AGENCY INC
128661	ILLICIT DISCHARGE	LEAKINGBLUE BARRELS OF BEER/HOPS LIQUID ON TERRACE	31-4-0323-01	1004	S	OLDE ONEIDA	ST	C	6,558	7/13/2015	1004 S OLDE ONEIDA ST	R P MOSES LLC	
131366	ILLICIT DISCHARGE	PROFESSIONAL GRASS CUTTER-BLOWING GRASS INTOSTREET	31-6-5466-00	4524	N	CLAYHILL	DR	C	3,004	8/21/2015	4524 N CLAYHILL DR	GIBSON JR	WILLIAM
131935	ILLICIT DISCHARGE	UNCLEAN WATER DISCHARGING INTO RIVER	31-2-0181-03	101	E	WATER	ST	C	6,558	8/31/2015	101 E WATER ST	HEARTLAND-APPLETON FOX	RIVER MILLS
132602	ILLICIT DISCHARGE	SWEEPING GRASS INTO STREET	31-4-0436-00	1225	S	MADISON	ST	C	6,558	9/11/2015	1225 S MADISON ST	RADIES PROPERTIES LLC	
132724	ILLICIT DISCHARGE	MOWING GRASS INTO THE STREET	31-4-0436-00	1225	S	MADISON	ST	X	6,558	9/14/2015	1225 S MADISON ST	RADIES PROPERTIES LLC	
137844	ILLICIT DISCHARGE	ILLICIT DISCHARGE - OUTFALL Y336- 9/18/15	31-1-1179-00	1020	N	RANKIN	ST	C	6,558	9/18/2015	1020 N RANKIN ST	APPLETON PAPERS INC	
137845	ILLICIT DISCHARGE	ILLICIT DISCHARGE- OUTFALL II-48- 9/20/15	31-3-5644-00	2100	W	PROSPECT	AVE	C	6,558	9/20/2015	2100 W PROSPECT AVE	ROGERS ESTATE	HOWARD
137846	ILLICIT DISCHARGE	ILLICIT DISCHARGE-WASTE WATER PLANT- CC-97-9/21/15	31-4-5715-00	2006	E	NEWBERRY	ST	C	6,558	9/21/2015	2006 E NEWBERRY ST	APPLETON	CITY OF
137842	ILLICIT DISCHARGE	ILLICIT DISCHARGE AT OUTFALL -9/24/15	31-2-0178-00	301	E	WATER	ST	C	6,558	9/24/2015	301 E WATER ST	COURTNEY	THOMAS
133372	ILLICIT DISCHARGE	BLACK WATER BEING PUMPED INTO STORM SEWER/STREET	31-2-0536-00	401	N	ONEIDA	ST	C	6,558	9/25/2015	401 N ONEIDA ST	FOX VALLEY INVESTMENT	PROPERTIES LLC
135744	ILLICIT DISCHARGE	POWER WASHED DIRT INTO STREET AFTER LANDSCAPING	31-5-3978-00	1813	N	EDGEWOOD	AVE	O	4,731	11/25/2015	1813 N EDGEWOOD AVE	HOULTON	KIMBERLY
136221	ILLICIT DISCHARGE	DUMPING WATER INTO STORM	31-6-7653-00	201	W	NORTHLAND	AVE	O	6,558	12/8/2015	201 W NORTHLAND AVE	MISSOURI REAL ESTATE &	INS AGENCY INC

ATTACHMENT F

City of Appleton
Pollution Prevention Program
Section 2.6 WPDES Permit No. WI-S050075-2
Permit Start Date May 7, 2014
December 2015

This document describes the City of Appleton Pollution Prevention Program as required in the Stormwater Permit from the Wisconsin Department of Natural Resources (WDNR). The program includes specific procedures intended to prevent pollution from City of Appleton operations conducted by several departments. Bold text is from the permit.

The following City of Appleton departments and divisions are involved in this program:

- Department of Public Works - Engineering Division
- Department of Public Works – Operations Division
- Department of Public Works – Parking Division
- Parks, Recreation and Facilities Management Department
- Fire Department
- Utilities Department
- Valley Transit

One copy of this document will be kept in the Engineering Division of the Department of Public Works located on the fifth floor of City Center, 100 N. Appleton Street, Appleton, Wisconsin 54911. All questions regarding this document should be directed to Paula Vandehey, Director of Public Works, at the above address, paula.vandehey@appleton.org or (920)-832-6474. Portions of this document will also be kept with other City of Appleton departments and divisions. Individual departments and divisions may elect to establish an alternate format of this plan for ease of implementation and monitoring or to fit within existing operations manuals.

Each department that is responsible for implementing a section(s) of this plan is also responsible for updating the plan as needed and training department staff on the plan requirements. Supporting documentation for activities by individual departments and divisions will be kept with those departments and divisions. Individual department and division updates will be collected by the Department of Public Works Engineering Division every five years, beginning in 2020, for an overall plan update. This updated plan will be brought to the Utilities Committee and Common Council for review and approval prior to submitting the plan to the WDNR.

Costs associated with this program are generally funded through the budget of each responsible department. Some costs associated with this program are funded through the City of Appleton Stormwater Utility.

Tables are provided at the end of the narrative summarizing measurable goals for this program.

<u>2.6 Pollution Prevention</u> – The permittee shall continue to implement its pollution prevention program. The program shall have measurable goals and include:

2.6.1 An inventory of municipally owned or operated structural stormwater management facilities.

The Department of Public Works is currently responsible for:

- 39 wet stormwater ponds
- 86 manholes and curb inlets with sumps (Hydrodynamic Separation Device – HSD)
- 8 dry ponds
- One Nutrient Separating Baffle Box (NSBB)
- Numerous ditches and ravines
- Four Biofilters
- One "Stormceptor" (HSD)
-

The Parks, Recreation and Facilities Management Department is currently responsible for:

- Two biofilters at the Police Station
- Two biofilters at Valley Transit
- One biofilter at Lutz Park
- Two biofilters at Telulah Park

This inventory is continually changing as the city and private developers construct new stormwater ponds**,** biofilters, water quality manholes and inlets with sumps and other stormwater management practices. The City of Appleton typically takes ownership of stormwater ponds in residential developments after the pond has been stabilized and the vegetation is established to ensure long term maintenance of the ponds.

Changes to this inventory will be included in the annual report.

2.6.2 Routine inspection and maintenance of municipally owned or operated structural stormwater management facilities to maintain their pollution removal efficiency.

This section is the responsibility of the Department of Public Works, Engineering and Operations Divisions, and the Parks, Recreation, and Facilities Management Department.

Many of the City owned and maintained ponds have "Adaptive Management Plans" on file at the City of Appleton Department of Public Works located on the fifth floor of City Center, 100 N. Appleton Street, Appleton, WI 54911. The plans identify goals and priorities that help staff to establish the yearly inspection and maintenance activities. Engineering and Operations staff inspect as many of the ponds and biofilters in the DPW inventory for erosion and structural problems each spring as time permits.

Approximately half of the ditches and ravines are also inspected each year and are monitored for erosion and other damage. A prioritized spreadsheet is maintained that shows all needed repairs at ponds, ditches and ravines. City Operations staff perform most of the maintenance.

The City of Appleton contracts for muskrat trapping that occurs each spring and fall. Muskrats are known to damage vegetation and embankments at stormwater ponds. City staff collapse the dens and repair the embankments. Vegetation is replanted as necessary. The city has a horticulturist on staff and also contracts on a three year basis with a qualified firm for native wetland and prairie vegetation management at the ponds and biofilters. Maintenance plans for

the Stormceptor and water quality inlets and manholes (HSD) provide measure down depths to determine when cleaning is needed. The Stormceptor is cleaned each year by the "Sewer TV and Cleaning" contractor. The City of Appleton Sewer Crew checks the other structures each year and removes sediment annually.

City crews have designed and installed baskets in the inlets in the downtown area to capture cigarettes and trash. These baskets are cleaned weekly.

The City of Appleton also cleans and televises the storm sewer system on approximately a 10-year cycle to ensure pipe integrity and monitor for improper connections.

The Parks, Recreation, and Facilities Management Department inspects and maintains the biofilters in their inventory per the Operation and Maintenance Plans developed with the project designs.

2.6.3 Routine Street Sweeping and cleaning of catch basins with sumps where appropriate.

This section is the responsibility of the Department of Public Works, Operations Division.

The Department of Public Works Operations Division currently owns two (2) mechanical sweepers**,** one (1) high efficiency street sweeper (HESS) and one Vac-All. Although the entire City is swept, additional efforts are focused on areas that are not tributary to regional stormwater ponds.

The Parking Division also owns a vacuum sweeper that is smaller than a street sweeper, appropriately sized to operate inside the parking ramps.

The downtown is swept twice a week with half mechanical sweeping and half high efficiency sweeping. Arterial streets and industrial areas are swept once every two weeks with the Vac-All or the HESS sweeper. The remaining areas are generally swept on a four week cycle. The first sweeping in the spring is completed prior to hydrant flushing activities.
City parking ramps are swept daily and two downtown public parking lots are swept weekly by the Parking Division.

The Parks, Recreation and Facilities Management parking lot is swept every two weeks by the Operations Division of Public Works. The Municipal Services Building parking lot is swept weekly. Telulah Park parking lot is swept once per month. All parks, the Wastewater Treatment Plant and the Water Filtration Plant parking lots are swept once per year during spring cleanup.

All sweeping is subject to weather conditions and staff and equipment availability. Per the 2014 Stormwater Management Plan Update, the City will work to improve sweeping frequency for areas not in the downtown, industrial areas or arterial streets to a three week frequency, as labor and equipment are available. The City will also evaluate supplementing efforts with private street sweepers and upgrading mechanical sweepers to high efficiency sweepers at the time of replacement.

Maintenance plans for the Stormceptor and water quality inlets and manholes (HSD) provide measure down depths to determine when cleaning is needed. The Stormceptor is cleaned each

year by the “Sewer TV and Cleaning” contractor. The City of Appleton Sewer Crew checks the other structures each year and removes sediment annually.

2.6.4 Proper disposal of street sweeping and catch basin cleaning waste.

This section is the responsibility of the Department of Public Works, Operations Division.

Street sweeping and storm sewer cleaning waste collected by the Operations Division is currently disposed of at the Outagamie County Landfill. Alternative methods of disposal are **c**ontinually being sought to reduce the cost associated with tipping fees. Sweepings collected by the Parking Division are collected and disposed of by a private hauler.

2.6.4 If road salt or other deicers are applied by the permittee, no more shall be applied than necessary to maintain public safety.

The information provided below is current as of the revision date of this Program document. Any changes that occur before the next official update of this document will be reported with the annual report.

This section is the responsibility of the Department of Public Works, Operations and Parking Divisions and Parks, Recreation and Facilities Management Department.

The Department of Public Works Operations Division has a written "Snow and Ice Control Program" adopted by the Common Council to address winter street maintenance. This program is being updated in 2015/2016. This program does not commit to bare pavement, establishes proper use of chemicals, and sets guidelines for the amount of salt used per lane mile depending on temperature, the type of storm event, and the type of street. It also includes the use of pre-wetting solutions to further reduce salt usage. The equipment used to apply salt is kept in good working condition and calibrated regularly.

A new salt shed was constructed in 2001 at the Municipal Services Building. It was inspected yearly by the State of Wisconsin through 2009. The State did not provide this service in 2010, but resumed inspections in 2011. It is unclear how long this service will be provided.

The Parking Division applies deicer to the parking ramps and lots as needed to ensure pedestrian and vehicle safety. The smaller amounts needed in these areas have allowed city staff to try new, more environmentally friendly products and still monitor the sites for safety. Which products are used on a regular basis is determined by availability and cost.

Parks, Recreation and Facilities Management applies deicers to parking lots, access roads and sidewalks at various city facilities to maintain pedestrian and vehicle safety. The**y** also remove snow from some of the city trails and appl**y** deicers as needed. The smallest effective amount of salt is used.

The Department of Public Works, Operations Division and Parks, Recreation and Facilities Management remove snow and apply deicers on approximately 27.8 miles (2014-2015) of public sidewalk. The smallest effective amount of salt is used.

Information on deicing activities shall be submitted with the annual report required under section 2.9 of this permit beginning with the annual report due March 31, 2016 and annually thereafter and include:

2.6.5.1 Contact information for the individual(s) with overall responsibility for winter roadway maintenance.

The following people are responsible for winter roadway maintenance:

1. Nate Loper, Deputy Director of Public Works – Operations
Office 920-832-5804, Cell 920-419-6225, nathan.loper@appleton.org

2. Carl Schultz, Operations Foreman, Department of Public Works
Office 920-832-5581, Cell 920-419-6036, carl.schultz@appleton.org

3. Paula Vandehey, Director of Public Works
Office 920-832-6474, Cell 920-419-6713, paul.vandehey@appleton.org

The following people are responsible for winter maintenance at parking ramps and downtown city-owned parking lots:

1. Paul De Braal, Parking Utility Manager, Department of Public Works
Office 920-832-2330, Cell 920-419-6220, paul.debraal@appleton.org

2. Ross Buetow, Deputy Director of Public Works/City Engineer
Office 920-832-6485, Cell 920-419-6408, ross.buetow@appleton.org

The following person is responsible for winter maintenance at city facilities:

1. Dean Gazza, Director of Parks, Recreation and Facilities Management
Office 920-832-5572, Cell 920-419-0374, dean.gazza@appleton.org

2.6.5.2 Description of the types of deicing products used.

The Department of Public Works Operations Division (streets) uses the following:

Granular sodium chloride (road salt)
Liquid sodium chloride 28%, salt brine, prewet and anti-ice application
Liquid calcium chloride 42% prewet application

The Department of Public Works Parking Division uses the following:

"Meteor Melt"
Chemical components OSHA PEL ACGIH
Potassium chloride 10 mg/M3 7447-40-7
Sodium chloride 10 mg/M3 7647-14-5
Magnesium chloride 7786-30-3
Calcium chloride

The Parks, Recreation and Facilities Management Department uses the following:

Calcium chloride
Granular sodium chloride (road salt)
Liquid calcium chloride pre-wet for sidewalks and parking lots

2.6.5.3 The amount of deicing product used per month.

This information will be tracked through the City's inventory system and reported annually.

2.6.5.4 Description of the type of equipment used.

The Department of Public Works Operations Division (streets) operates the following:

10 tri-axle plow trucks, wing and plow, tailgate salt spreader with prewet capabilities
15 single axle plow trucks, wing and plow, tailgate salt spreader with prewet capabilities
6 front end loaders with a wing and plow
2 road graders with a wing and plow
2 one ton plow trucks with a salt spreader
3 sidewalk snow plows with a salt spreader

The Department of Public Works Parking Division uses the following:

1 truck spreader
By hand with scoops

The Parks, Recreation and Facilities Management Department operates the following:

Four ¾ ton plow trucks with inbox salt spreaders
Six Toro mower to snow conversion units with salt spreaders for sidewalk use
One Liquid calcium chloride spray unit for sidewalks and parking lots

2.6.5.5 Snow disposal locations, if applicable

South side of the intersection of E. Glendale Avenue and N. Sandra Street
Southeast corner of E. Milis Drive and S. Quest Drive
701 S. Whitman Drive
N. Kalata Place (Parking Division)

2.6.5.6 Anti-icing, equipment calibration and salt reduction strategies considered.

The Department of Public Works Operations Division (streets) considered all available technologies, currently owned equipment, locations of critical sites and available staff in the development of the current strategy. The current strategy is as follows:

The City applies liquid salt brine as an anti-ice agent prior to snow/ice storms and forecasted frost events on hills, bridges, curves and four lane roads. All equipment having a material spreader is equipped with prewet capabilities and an on-board computer system which regulates material application. This equipment is calibrated annually. The City also developed a snow and ice matrix that is used to evaluate impending storm conditions and helps determine the proper methodology for combating the snow event. The matrix is attached to this document. The City also subscribes to a weather service that helps establish duration, intensity and timing of a storm. In addition, the service forecasts present and future air and pavement temperatures and recommends material spreading applications.

The Department of Public Works Parking Division strategy includes plowing and scraping snow with a skid steer and also using a snow blower and hand shovels. Salt is typically only applied in areas prone to ice formation or where ice is present.

The Parks, Recreation, and Facilities Management Department strategy is similar to the DPW Parking Division strategy.

2.6.5.7 Other measureable data or information that the permittee used to evaluate its deicing activities.

The Department of Public Works Operations Division (streets): The primary focus of the program is to anti-ice instead of de-ice as much as possible. City staff stay current with the latest snow and ice technology by networking with vendors and other communities, attending American Public Works Association training on the topic, and sending various staff to UW-Madison and NEWSC sponsored classes regularly. New employees are trained on the program every fall. The City believes that it is using the latest technology.

The Department of Public Works Parking Division uses deicing materials on an as-needed basis only.

The Parks, Recreation and Facilities Management Department uses deicing materials on an as-needed basis only.

2.6.6 Proper management of leaves and grass clippings, which may include on-site beneficial reuse as opposed to collection.

This section is the responsibility of the Department of Public Works Operations Division, Fire Department, the Parks and Recreation and Facilities Management Department. Parks, Recreation and Facilities Management is responsible for yard care at approximately 144 public terraces and outlots, the Wastewater and Water Treatment Plants all City owned parks, Valley Transit, the Witzke Blvd Parks, Recreation and Facilities Management office, the Police Station and Fire Station 6. Fire Stations 1 through 5 have mulching mowers and leaf collection is addressed under the City-wide leaf collection program.

Parks, Recreation and Facilities Management uses mulching mowers in the parks, public terraces, and at other city facilities that they maintain. No leaves or grass clippings are removed from these sites. At Reid Golf Course all material is mulched or composted and kept on-site.

Appleton has two yard waste drop off sites that collect grass clippings, brush, and yard waste from residents. A fee is charged for each bag of grass clippings as an incentive to mulch grass or compost at home.

Leaves are collected by the Department of Public Works Operations Division in the fall in approximately three (3) cycles through the city. Some leaves are ground and made available to residents as mulch. Other leaves are applied to farm fields, provided to landscapers and provided to the compost pilot program with Outagamie County and Appleton Utilities Department Biosolids Program. Grass clippings are currently mixed with other ground yard waste and taken to the compost project or provided to the public.

2.6.7 Stormwater pollution prevention planning for municipal garages, storage areas, and other sources of stormwater pollution from municipal facilities. Information on stormwater pollution prevention activities for municipal garages, storage areas, and other sources of stormwater pollution prevention from municipal facilities shall be submitted with the annual report under section 2.9 of this permit beginning with the annual report due March 31, 2016 and annually thereafter and include the information in sections 2.6.7.1 through 2.6.7.7. The Department may waive the requirements of this section on a case-by-case basis for a municipal facility provided the permittee certifies that the facility qualifies for a conditional no exposure exclusion pursuant to s. NR 216.21(3), Wis. Adm. Code and with the Department's written concurrence.

Information on stormwater pollution prevention activities shall include:

2.6.7.1 Location of each facility and contact information for the individual(s) with overall responsibility for each facility.

2.6.7.2 A map of each facility, drawn to scale, and including the following features:

2.6.7.2.1 The locations of major activities and storage areas.

2.6.7.2.2 Identification of drainage patterns, potential sources of stormwater contamination, and discharge points.

2.6.7.2.3 Identification of nearby receiving waters or wetlands.

2.6.7.2.4 Identification of connections to the permittee's MS4.

2.6.7.3 A description of good housekeeping activities and any best management practices installed to reduce or eliminate stormwater contamination.

2.6.7.4 Recommendations for improvements to current stormwater management practices at the facility and a timeline for installation and/or implementation of these recommendations.

2.6.7.5 Information on inspections of the facility to identify and address potential sources of stormwater contamination.

2.6.7.6 Employee training on stormwater pollution prevention at the facility.

2.6.7.7 Spills prevention and response procedures.

Earth Tech, Inc. prepared nine (9) site specific Stormwater Management Plans for the following City of Appleton facilities:

- Valley Transit (2004)
- Whitman Yard Waste Site (Department of Public Works - Operations Division) (2005)
- Municipal Services Building (Department of Public Works - Operations Division) (2005)
- Water Treatment Plant (Utilities Department) (2005)
- Wastewater Treatment Plant (Utilities Department) (2005)
- Fire Station No. 1 (2007)
- Fire Station No. 6 (2007)
- Facilities and Grounds Operations Center on Witzke Blvd (formerly Parks and Recreation Department Office and Storage yard) (2007)
- Reid Golf Course Maintenance Yard (Parks, Recreation, and Facilities Management Department) (2007)

These plans are separate documents and not included in this program document. Each department is responsible for implementing the stormwater plan for their facilities, including: physical site changes, plan updates and amendments, facility inspections, and staff training. Earth Tech, Inc. provided training to each department on their completed plans. Department of Public Works Engineering staff provide additional training to each department if requested. Beginning in 2016, the Department of Public Works will be performing site inspections for Parks, Recreation, and Facilities Management sites and assisting them with any necessary plan updates.

2.6.7 Application of turf and garden fertilizers on municipally controlled properties, with pervious surfaces over 5 acres each, in accordance with site-specific nutrient application schedule based on appropriate soil tests.

City owned properties with over 5 acres of pervious area include most city parks, Reid Golf Course, the Water Treatment Plant (WTP) and the Wastewater Treatment Plant (WWTP).

The city also owns property with over 5 acres of pervious surface that is leased by USA Youth Sports.

This section is the responsibility of The Parks, Recreation and Facilities Management Department.

The City has a Turf Management Policy for city parks and other City owned properties, except Reid Golf Course. There are also completed soil tests and Nutrient Management Plans for all city parks, Reid Golf Course, and the Water and Wastewater Treatment Plants. The site specific Nutrient Management Plans fall under the Turf Management Policy. Reid Golf Course has a stand-alone Nutrient Management Plan, not under the Turf Management Policy. Reid Golf Course and Parks, Recreation and Facilities Management staff are certified for the proper application of lawn and garden fertilizers and follow the Nutrient Management Plans. The plans will be updated every five (5) years following new soil tests.

Lease agreement with USA Youth Sports includes this requirement.

2.6.9 Consideration of environmentally sensitive land development designs for municipal projects, including green infrastructure and low impact development.

The Parks, Recreation and Facilities Management Department will add this requirement to Requests for Proposals for designs of municipal building projects.

The Department of Public Works evaluates street width for every reconstruction project. Streets are narrowed, increasing terrace width for trees and grass, whenever possible. The Department is also evaluating the various new pervious pavement technologies, including installation of two "Pavedrain" test areas, one in 2015 and one in 2016.

2.6.10 Education of appropriate municipal and other personnel involved in implementing this program.

Each Department impacted by this section of the Permit is required to provide training to their own personnel regarding the implementation of this plan. However, some of the topics may be applicable to multiple departments and combined training efforts will be used whenever the time and topic are appropriate. Training will be incorporated into existing training programs.

2.6.11 Measures to reduce municipal sources of stormwater contamination within source water protection areas.

Small portions of the city are tributary to a Freedom municipal well, a Town of Menasha municipal well, and Lake Winnebago. The city will continue current practices within known source water protection areas.

DES Permit Requirement: **2.6.1** An inventory of municipally owned or operated structural stormwater management facilities.		
Responsible Departments and Divisions: Department of Public Works - Engineering Division		
Operation	**BMP Description**	**Measurable Goals**
(1) Maintain inventory of municipally owned or operated structural stormwater management facilities	• Track construction projects by the Department of Public Works; Parks, Recreation and Facilities Management; and the Wisconsin DOT within the city limits for stormwater management practices	1. Report inventory changes in the annual report. 2. Continue to add new DPW and DOT practices to the DPW GIS system on a yearly basis.
Potential Barriers to Implementation • Staff availability • Accurate reporting from other departments and agencies		

WPDES Permit Requirement: **2.6.2** Routine inspection and maintenance of municipally owned or operated structural storm water management facilities to maintain their pollutant removal operating efficiency.

Responsible Departments and Divisions: Department of Public Works Engineering and Operations Divisions and Parks, Recreation and Facilities Management Department

Operation	BMP Description	Measurable Goals
(1) Inspect and Maintain Stormwater Ponds	• Inspect City owned and maintained storm water ponds to identify erosion, sediment deposits, weed growths, private encroachments, and inlet and outlet condition.	1. Inspect 50% of the City-owned ponds annually (Y/N).
(2) Inspect and Maintain other Structural Facilities	• Inspect City owned and maintained water quality manholes with sumps and proprietary devices and follow operation and maintenance plans.	2. Check sediment and debris accumulation annually and remove as needed (Y/N).
(3) Inspect and Maintain Ditches and Ravines	• Inspect City-maintained ditches and ravines for erosion and other damage. • Perform necessary maintenance activities.	3. Inspect 50% of the City-maintained ditches and ravines annually (Y/N).
(4) Inspect Storm Sewer System	• Clean and televise storm sewer system on approximately a 10-year cycle.	4. Clean and televise 10% of storm system annually (Y/N).

Potential Barriers to Implementation

- Lack of maintenance funds
- Staff training and availability
- Sewer cleaning / televising equipment availability

WPDES Permit Requirement: **2.6.3** Routine street sweeping and cleaning of catch basins with sumps where appropriate.

Responsible Departments and Divisions: Department of Public Works - Operations and Parking Divisions

Operation	BMP Description	Measurable Goals
(1) Sweeping - Streets	• Generally sweep all City streets on a 4 week cycle, April to October. • Sweep downtown area twice (2x) per week, April to October. • • Sweep arterial streets and industrial areas once per week.	1. Provide 2500 broom hours of street sweeping annually (Y/N). 2. Sweep downtown streets two (2) times per week (Y/N). 3. Evaluate the replacement of existing mechanical sweepers with high efficiency sweepers per established equipment replacement schedule (Y/N). 4. Evaluate supplementing with private street sweeping and/or increasing sweeping frequency to a 3 week cycle by 2020.
(2) Sweeping – Downtown City Parking Lots and Ramps	• Sweep parking ramps daily and downtown City parking lots once per week.	
(3) Sweeping – Various City facilities	• Sweep parks and various city facilities if requested and as staff, equipment and time permit.	
(4) Catch basin cleaning	• Inspect City owned and maintained water quality manholes and inlets with sumps and follow maintenance plans.	5. Check sediment and debris accumulation annually and remove as needed (Y/N).

Potential Barriers to Implementation

- Funding to comply with current commitment
- Equipment availability/reliability
- Staff availability for sweeping
- Weather conditions

WPDES Permit Requirement: **2.6.4** Proper disposal of street sweeping and catch basin cleaning waste.		
Responsible Department and Division: Department of Public Works - Operations Division		
Operation	**BMP Description**	**Measurable Goals**
(1) Disposal of Street Sweepings	• Accumulate sweepings daily at city owned facility • Haul to Outagamie County landfill as needed during street sweeping cycles.	1. Maintain regular disposal practices (Y/N) as tracked by tipping fee receipts.
(2) Disposal of catch basin cleaning wastes	• Accumulate cleanings daily at City owned facility. • Haul with street sweepings to Outagamie County Landfill.	2. Maintain regular disposal practices (Y/N) as tracked by tipping fee receipts.
Potential Barriers to Implementation • Cost of tipping fees • Loss of County-owned licensed landfill disposal option • Staff availability for hauling		

WPDES Permit Requirement: **2.6.5** If road salt or other deicers are applied by the permittee, no more shall be applied than necessary to maintain public safety.

Responsible Department and Division: Department of Public Works Department - Operations and Parking Divisions, and Parks, Recreation and Facilities Management

Operation	*BMP Description*	*Measurable Goals*
(1) Follow Snow and Ice Control Program for Streets	• Apply salt per guidelines established for temperature, type of storm, and type of street.	1. Maintain fleet for proper calibrated application (Y/N). Supported by fleet vehicle maintenance records.
(2) Apply minimum effective amount of deicer at city facilities and on city maintained sidewalks and trails	• Remove snow and apply deicer to Parking Division lots and ramps as needed to maintain pedestrian and vehicle safety. • Remove snow and apply deicer on parking, traffic and pedestrian areas in City parks and on trails maintained for winter use. • Remove snow and apply deicer on pedestrian, parking and traffic areas at Water and Wastewater Treatment Plants and other various city facilities (lift stations, water towers, fire stations, police station, etc.) as necessary for winter access and use.	
(3) Deicer Storage	• Maintain salt storage shed.	2. Annual salt shed inspections (Y/N)
(4) Stay Current with snow and ice control technology	• Review matrix and program document regularly and attend training as funds and staff time allow	3. Review Snow and Ice matrix yearly 4. Review Snow and Ice Program every three years

Potential Barriers to Implementation

- Snow disposal site availability (long-term)
- Chloride residuals management
- Cost of alternative deicer materials
- Weather conditions and forecasting for application management/ timing
- Adequate funding for purchase and maintenance
- Availability of equipment and replacement parts

WPDES Permit Requirement: **2.6.6** Proper management of leaves and grass clippings, which may include on-site beneficial reuse as opposed to collection.

Responsible Department and Division: Department of Public Works - Operations Division; Parks, Recreation and Facilities Management and Fire Department

Operation	BMP Description	Measurable Goals
(1) Leaf Collection Program – city-wide	• Conduct three bi-weekly rounds of collection over a six-week period followed by one round of street sweeping and inlet cleaning prior to snowfall. • Haul leaves from point of street collection to a city yard waste or storage facility for temporary storage. • Take advantage of opportunities when they occur. • Grind leaves into mulch and make available to city residents. • Provide leaves to regional composting project and area landscapers.	1. Continue public leaf collection program (Y/N).
(2) Grass Clipping Management – city - wide	• Properly staff and maintain city-owned drop-off facilities for public use. • Grind grass with other yard waste and take to private vendor.	2. Continue operation of yard waste drop-off sites (Y/N).
(3) Parks and city properties maintained by Parks, Recreation and Facilities Management	• Mulch leaves and grass on site.	3. Parks, Recreation and Facilities Management will continue to own, operate, and maintain mulching mowers (Y/N).
(4) Fire Department	• Mulch grass on site. • Follow city-wide leaf collection program.	4. The Fire Department will continue to own, operate, and maintain mulching mowers (Y/N).

Potential Barriers to Implementation

- Leaf and grass clipping disposal site availability
- Weather conditions/ timing of snowfall
- Changed regulatory requirements – redefinition of "proper management"

WPDES Permit Requirement: **2.6.7** Stormwater pollution prevent for municipal garages, storage areas, and other sources of stormwater pollution from municipal facilities.		
Responsible Department and Division: Department of Public Works Operations Division, Parks, Recreation and Facilities Management Department, Fire Department, Utilities Department and Valley Transit.		
Operation	**BMP Description**	**Measurable Goals**
(1) Inspect municipal facilities per prepared plans.	• Each department will budget and make arrangements for required inspections.	1. Perform inspections per prepared plans. 2. Report inspections per permit requirements.
(2) Periodically review and update plans.	• Each department will budget and make arrangements for reviewing and updating their plans.	3. By December 31, 2016, complete initial update of all site pollution prevention plans.
(3) Employee training on pollution prevention at each facility.	• Each department will train or make arrangements to train their staff on pollution prevention practices for their site	4. Each department will provide one training opportunity per year for their staff as documented by an attendance sign-in and agenda.
Potential Barriers to Implementation • Different priorities for each department • Staff changes		

WPDES Permit Requirement: **2.6.8** Application of turf and garden fertilizers on municipally controlled properties, with pervious surfaces over 5 acres each, in accordance with a site specific nutrient application schedule based upon appropriate soil tests.

Responsible Departments and Divisions: Parks, Recreation and Facilities Management Department

Operation	BMP Description	Measurable Goals
(1) Turf Management at parks, WTP and WWTP	• Review and update Turf Management Policy and Nutrient Management Plans on a regular basis. • Follow Turf Management Policy and Nutrient Management Plans.	1. Review and update Turf Management Policy every 5 years (Y/N). 2. Review and update Nutrient Management Plans every 5 years (Y/N). 3. Follow Turf Management Policy and Nutrient Management Plans (Y/N).
(2) Turf Management at leased property	• Work with USA Youth Sports to Follow Nutrient Management Plan for their site. • Properly maintain turf at Reid Golf Course per latest standards.	4. Monitor compliance with Nutrient. Management Plans (Y/N) for leased property.

Potential Barriers to Implementation

- Committee/council approvals and adequate budget authorization

WPDES Permit Requirement: **2.6.9 Consideration of environmentally sensitive land development designs for municipal projects, including green infrastructure and low impact development**.

Responsible Departments and Divisions: Department of Public Works Engineering Division and Parks, Recreation and Facilities Management Department

Operation	BMP Description	Measurable Goals
(1) Consideration of environmentally sensitive designs for municipal building projects	• Evaluate possible green infrastructure practices when planning and designing city facilities	1. Include this requirement in RFPs issued by the Parks, Recreation and Facilities Management Department. 2. Public Works will begin discussions with other City departments that may issue RFPs
(2) Consideration of environmentally sensitive designs and green infrastructure for public works projects	• Evaluate design options for Public Works street reconstruction and other projects	3. Evaluate each street reconstruction project for pavement narrowing and opportunities for green infrastructure
(3) Stay current on green infrastructure and low impact development technologies	• Public Works staff will evaluate and look for opportunities to demonstrate green infrastructure technologies	4. Evaluate one new green infrastructure technology per year

Potential Barriers to Implementation

- Staff availability
- Staff resistance
- Staff knowledge of low impact development and green infrastructure
- Chance of success of contractor implementation
- Level of green infrastructure industry development

WPDES Permit Requirement: **2.6.10** Education of appropriate municipal and other personnel involved in implementing this program.

Responsible Departments and Divisions: Department of Public Works Department- Engineering, Operations, and Parking Divisions; Parks, Recreation and Facilities Management, Fire Department, Utilities Department

Operation	BMP Description	Measurable Goals
(1) Operational Training: Department of Public Works Parks, Recreation and Facilities Management	• Conduct pollution prevention training on a seasonally relevant topic within existing training program structure.	1. Provide one training opportunity per department per year; document with training records (Y/N).
(2) Pollution Prevention Informational Posters: Department of Public Works Parks, Recreation and Facilities Management	• Post pollution prevention program informational posters in appropriate workplace locations.	2. Acquire and post appropriate information posters (Y/N).

Potential Barriers to Implementation

- Staff resistance
- Time availability
- Staff availability/ scheduling
- Trainer availability/ scheduling
- Cost of training and facility access
- Appropriate training methods/ techniques
- Multi-cultural issues (FVTC training support options)

WPDES Permit Requirement: **2.6.11** Measures to reduce municipal sources of storm water contamination within source water protection areas.		
Responsible Departments and Divisions: Department of Public Works, Engineering and Operation Divisions		
Operation	**BMP Description**	**Measurable Goals**
Reduce potential sources of contaminants with pathway to water resources used for municipal water supply	• Maintain BMP's in source areas as described within this plan.	1. Maintain existing BMP's in source water protection areas (Y/N).
Potential Barriers to Implementation • Available funding • Available staffing		

Stormwater Maintenance List

J:\ENGINEERING\2ENGINEERS\Neuberger P\Excel\STORMWATER\Basin-Channel Maintenance\Inspection Reports\2015

12/31/2015

Priority Key: 1=high, 2=med, 3=low, 4=monitor only

rev 1

Facility	Asset #	Inspector(s)	Last Inspection Type/Notes			Last Insp Date	
(All Ponds)	**n/a**	**n/a**	**n/a**			**n/a**	
Acct.Work Order.Activity Code	Location	Concern	Work Request	Priority	Who	Added/Updated	Completed
5221…	All ponds w Trees	Trees could use pruning	Forestry/Horticulturist to prune trees	3	MSB	10/24/13	
Facility	Asset #	Inspector(s)	Last Inspection Type/Notes			Last Insp Date	
AEHS Flood Storage		**Consultant**	**Structural/Waterproof Inspect**			**6/24/2015**	
Acct.Work Order.Activity Code	Location	Concern	Work Request	Priority	Who	Added/Updated	Completed
5224..	Outlet pipe	need to adjust cable system for outlet grate at new access manhole	adjust cable/remount (can be done from above)	3	MSB	08/27/15	
Facility	Asset #	Inspector(s)	Last Inspection Type/Notes			Last Insp Date	
Apple Creek Corridor	**6508**	**P. Neuberger/E. Cardew**	**Full Inspection**			**4/13/2015**	
Acct.Work Order.Activity Code	Location	Concern	Work Request	Priority	Who	Added/Updated	Completed
5224..	n/side from Providence to French	Vegetation growth at outfalls	In general check outfalls, remove vegetation and repair riprap as needed	3	MSB	04/15/15	10/06/15
5224..	immediately d.s. and 400' d.s. of Providence box culvert	sediment in stream bottom	PN to get schedule survey and permit to dredge both locations. MSB to dredge after permit rec'd	3	PN/ MSB	05/06/13	
Facility	Asset #	Inspector(s)	Last Inspection Type/Notes			Last Insp Date	
Apple Creek North of JJ		**P. Neuberger/E. Cardew**	**Full Inspection**			**4/13/2015**	
Acct.Work Order.Activity Code	Location	Concern	Work Request	Priority	Who	Added/Updated	Completed
5224..	Monitoring Wells and Veg Plots	Bird droppings covering paint labels	Resotore ID on posts per Tom by mid-August	2	MSB	05/28/15	07/01/15
5224..	Culvet outfalls NE and NW or French Rd (CB-6/CB-9)	Needs culvert markers	Install culvert markers, 2 locations	3	MSB	05/05/14	06/14/15
5224..	Channel about 600' w/o Providence	strip between channel and depression has gap due to muskrats	Fix muskrat damage. Good candidate for fence mesh	3	MSB	04/17/15	
5224..	Channel about 500' e/o French	strip between channel and depression has gap due to muskrats	Fix muskrat damage. Good candidate for fence mesh. About 30 LF	3	MSB	04/17/15	
5224..	Channel about 950' e/o French	strip between channel and depression has gap due to muskrats	Fix muskrat damage. Good candidate for fence mesh.	3	MSB	04/17/15	
5224..	N/side of site 325' n-o French Road	Backflow preventer missing in 12" culvert. Vandalism suspected	Replace backflow preventer (PN has on order)	2	MSB	04/17/15	05/15/15
5224..	N/side site e/o French by apts	Lots of trashing blowing in from poorly maintained dumpsters. No enclusures	PN report to Inspections for enforcement (see photo)	3	PN	04/17/15	06/01/15
5224..	Channel at far NW end of site	Bank erosion on hairpin curve of channel	Monitor (see photo)	4	MSB / PN	04/17/15	
Facility	Asset #	Inspector(s)	Last Inspection Type/Notes			Last Insp Date	
Apple Hill Farms Dry (HP)	**8428**	**P. Neuberger/E. Cardew**	**Full Inspection**			**4/13/2015**	
Acct.Work Order.Activity Code	Location	Concern	Work Request	Priority	Who	Added/Updated	Completed
5221..							

Inspection and Cleaning of Water Quality Inlets and Manholes
ATTACHMENT I

			2014 Spring						2014 Fall						Fall 2015				
Type of Device	Location	Target Depth	Inspection Date	Staff Initials	Amount of Sediment	Date of Cleaning	Staff Initials		Inspection Date	Staff Initials	Amount of Sediment	Date of Cleaning	Staff Initials		Inspection Date	Staff Initials	Amount of Sediment	Date of Cleaning	Staff Initials
96" Dia MH LL-22	7th Street - Behind Courthouse		21-May	DS/TK	3"	21-May	DS/TK									DS/PL	6	30-Sep	
96" Dia MH KK-53	Olde Oneida St at Edison Ave		21-May	DS/TK	6"	21-May	DS/TK									DS/PL	18	30-Sep	
96" Dia MH KK-39	Edison Ave w/o Olde Oneida		21-May	DS/TK	8"	21-May	DS/TK									DS/PL	5	30-Sep	
48" Dia MH KK-48	Olde Oneida Street s/o Fox River bridge		21-May	DS/TK	10"	21-May	DS/TK									DS/PL	4	30-Sep	
MH KK-23	Olde Oneida/South River SE corner															DS/PL	36	5-Oct	
MH KK-3	South River St - 100' East of Olde Oneida															DS/PL	2	5-Oct	
MH KK-75	Orange St - South of Olde Oneida																		
96" Dia MH KK-58	South Island St 970' e/o Olde Oneida		21-May	DS/TK	1"	water	backflow									JB/TK	3	7-Oct	
96" Dia MH East	Woodland Ave - just west of McDonald		21-May	DS/TK	3"	21-May	DS/TK									DS/PL	6	1-Oct	
Inlet DD-26 A	College/Warner SE corner	1 ft clear below lowest pipe invert	14-May	DS TK	6''	14-May	DS TK									JB/TK	3	5-Oct	
Inlet DD-26 B	College/Warner SW corner	1 ft clear below lowest pipe invert	14-May	DS TK	7''	14-May	DS TK									JB/TK	4	5-Oct	
Inlet DD-22 A	College/Telulah SW corner	1 ft clear below lowest pipe invert	14-May	DS TK	3''	14-May	DS TK									JB/TK	3	5-Oct	
Inlet DD-22 B	College/Telulah SE corner	1 ft clear below lowest pipe invert	14-May	DS TK	4''	14-May	DS TK									JB/TK	3	5-Oct	
Inlet DD-20 F	College/Lee SW corner	1 ft clear below lowest pipe invert	14-May	DS TK	4''	14-May	DS TK									JB/TK	3	5-Oct	

			2014 Spring						2014 Fall						Fall 2015				
Type of Device	Location	Target Depth	Inspection Date	Staff Initials	Amount of Sediment	Date of Cleaning	Staff Initials		Inspection Date	Staff Initials	Amount of Sediment	Date of Cleaning	Staff Initials		Inspection Date	Staff Initials	Amount of Sediment	Date of Cleaning	Staff Initials
Inlet DD-20 D	College/Lee SE corner	1 ft clear below lowest pipe invert	14-May	DS TK	3''	14-May	DS TK									JB/TK	4	5-Oct	
Inlet DD-126 A	College/Weimar SW corner	1 ft clear below lowest pipe invert	14-May	DS TK	5"	14-May	DS TK									JB/TK	2	5-Oct	
Inlet DD-126 B	College/Weimar SE corner	1 ft clear below lowest pipe invert	14-May	DS TK	5''	14-May	DS TK									JB/TK	4	5-Oct	
Inlet DD-17 A	College/Arlington SW corner	1ft clear below lowest pipe invert	14-May	DS TK	6"	14-May	DS TK									JB/TK	4	5-Oct	
Inlet DD-17 B	College/Arlington SE Corner	1 ft clear below lowest pipe invert	14-May	DS TK	6''	14-May	DS TK									JB/TK	3	5-Oct	
Inlet ?	Houdini Plaza																		
Inlet DD-139 C	College/Christine SW corner	1 ft clear below lowest pipe invert	14-May	DS TK	8"	14-May	DS TK									JB/TK	3	7-Oct	
Inlet DD-139 B	College/Christine SE corner	1 ft clear below lowest pipe invert	14-May	DS TK	6"	14-May	DS TK									JB/TK	4	7-Oct	
Inlet DD-85 B	College/Joseph SW corner	1 ft clear below lowest pipe invert	14-May	DS TK	4"	14-May	DS TK									JB/TK	2	7-Oct	
Inlet DD-85 A	College/Joseph SE corner	1 ft clear below lowest pipe invert	14-May	DS TK	3"	14-May	DS TK									JB/TK	2	7-Oct	
Inlet DD-88 B	College/Buchanan SW corner	1ft clear below lowest pipe invert	14-May	DS TK	3"	14-May	DS TK									JB/TK	3	7-Oct	
Inlet DD-88 A	College/Buchanan SE corner	1ft clear below lowest pipe invert	14-May	DS TK	2"	14-May	DS TK									JB/TK	4	7-Oct	
Inlet CC-51 B	College/Midpark SW corner	1ft clear below lowest pipe invert	14-May	DS TK	2"	14-May	DS TK									JB/TK	3	7-Oct	
Inlet CC-51 A	College/Midpark SE corner	1 ft clear below lowest pipe invert	14-May	DS TK	3"	14-May	DS TK									JB/TK	2	7-Oct	
Inlet CC-49 B	College/Fidelis SW corner	1 ft clear below lowest pipe invert	14-May	DS TK	12"	14-May	DS TK									JB/TK	3	7-Oct	

			2014 Spring						2014 Fall						Fall 2015				
Type of Device	Location	Target Depth	Inspection Date	Staff Initials	Amount of Sediment	Date of Cleaning	Staff Initials		Inspection Date	Staff Initials	Amount of Sediment	Date of Cleaning	Staff Initials		Inspection Date	Staff Initials	Amount of Sediment	Date of Cleaning	Staff Initials
Inlet CC-49 A	College/Fidelis SE corner	1 ft clear below lowest pipe invert	14-May	DS TK	8"	14-May	DS TK									JB/TK	4	7-Oct	
Inlet CC-44 B	College/Matthias SW corner	1 ft clear below lowest pipe invert	14-May	DS TK	6"	14-May	DS TK									JB/TK	4	7-Oct	
Inlet CC-44 A	College/Matthias SE corner	1 ft clear below lowest pipe invert														JB/TK	2	7-Oct	
Inlet CC-43 C	College/Matthias NW corner	1 ft clear below lowest pipe invert	20-May	DS TK	6"	20-May	DS TK									JB/TK	4	5-Oct	
Inlet DD-84 A	College/Joseph NE corner	1 ft clear below lowest pipe invert	21-May	DS TK	6"	21-May	DS TK									JB/TK	4	5-Oct	
Inlet DD-84 B	College/Joseph NW corner	1 ft clear below lowest pipe invert	21-May	DS TK	5"	21-May	DS TK									JB/TK	3	5-Oct	
Inlet MM-25 A	College/Lee NE corner	1 ft clear below lowest pipe invert	21-May	DS TK	5"	21-May	DS TK									JB/TK	5	5-Oct	
Inlet MM-25 B	College/Lee NW corner	1 ft clear below lowest pipe invert	21-May	DS TK	4"	21-May	DS TK									JB/TK	4	5-Oct	
P-185	Midway/Meadowview II		21-May	DS TK	3"	21-May	DS TK												
Inlet QQ-31	MSB - Yard Site Storm-Ceptor		21-May	DS TK	10"	21-May	DS TK									completed by private contractor			
Inlet N-319 A	Banta Ct - 225' e/o Riverheath - North side of street															JB/TK	3	5-Oct	
Inlet N-304 B	Banta Ct - 150' e/o Riverheath - South side of street															JB/TK	12	5-Oct	
Inlet N-305 A	Banta Ct - 50' e/o Riverheath - North side of street															JB/TK	6	1-Oct	
Inlet N-309 B	Banta Ct - 175' w/o Riverheath - South side of street															JB/TK	12	1-Oct	
Inlet CE-2 A	Riverheath - 130' w/o Newberry - North side of street															JB/TK	1	1-Oct	

			2014 Spring						2014 Fall						Fall 2015				
Type of Device	Location	Target Depth	Inspection Date	Staff Initials	Amount of Sediment	Date of Cleaning	Staff Initials		Inspection Date	Staff Initials	Amount of Sediment	Date of Cleaning	Staff Initials		Inspection Date	Staff Initials	Amount of Sediment	Date of Cleaning	Staff Initials
Inlet CE-2 B	Riverheath - 130' w/o Newberry - South side of street															JB/TK	2	30-Sep	
Inlet CE-3 A	Riverheath/Newberry NW corner															JB/TK	3	30-Sep	
Inlet CE-3 B	Riverheath/Newberry SW corner															JB/TK	2	30-Sep	
Inlet CE-4 A	Riverheath/Newberry NE corner															JB/TK	2	30-Sep	
Inlet CE-4 B	Riverheath/Newberry SE corner															JB/TK	4	30-Sep	
Inlet CE-6 A	Riverheath/Newberry SSE corner															JB/TK	5	30-Sep	
Inlet CE-6 B	Riverheath/Newberry SSW corner															JB/TK	6	29-Sep	
Inlet CE-18 A	Newberry - 200' e/o Riverheath - North side of street															JB/TK	2	29-Sep	
Inlet CE-19 A	Newberry - 250' e/o Riverheath - South side of street															JB/TK	4	29-Sep	
Inlet CE-23 A	Newberry - 450' w/o tracks - North side of street															JB/TK	3	29-Sep	
Inlet CE-23 B	Newberry - 450' w/o tracks - South side of street															JB/TK	2	23-Sep	
Inlet CE-25 A	Newberry - 150' w/o tracks - North side of street															JB/TK	4	29-Sep	
Inlet CE-25 B	Newberry - 150' w/o tracks - South side of street															JB/TK	4	29-Sep	

GREEN BAY PIPE & TV
SEWER TV INSPECTION AND JET/VAC CLEANING

Appleton Stormceptor Cleaning & Inspection

Date Cleaned & Inspected 10-01-2015

1. There was a slight odor of oil.
2. Approximately 2 1/2 feet of sediment in structure consisting mainly of gravel & fines.
3. After liquid removal it measured 17 1/2 feet from rim to sediment. After sediment removal it measured 20 feet.

1100 Columbia Ave., Green Bay, WI 54303
Phone: 920-490-5501
Fax: 920-490-6242

Sweeper Report 2015 ATTACHMENT K

	109				110				113				47				Downtown				Emergencies				
	Miles	Broom Miles	Hrs Swept	Yards of Debris	Miles	Broom Miles	Hrs Swept	Yards of Debris	Miles	Broom Miles	Hrs Swept	Yards of Debris	Miles	Broom Miles	Hrs Swept	Yards of Debris	Miles	Broom Miles	Hrs Swept	Yards of Debris	Work Order	Miles	Broom Miles	Hrs Swept	Yards of Debris
1/24/2015													36.0	23.0	8.0	6.0									
3/11/2015									33.0	24.0	9.0	15.0													
3/12/2015	18.0	11.0	6.0	6.0					24.0	18.0	9.0	18.0					8.0	6.0							
3/13/2015									24.0	20.0	9.0	15.0	15.0	11.0	5.0	3.0									
3/14/2015													31.0	20.0	9.0	12.0									
3/15/2015	11.0	7.0	3.0	6.0																					
3/16/2015	18.0	11.0	5.0	6.0					28.0	23.0	9.0	18.0													
3/17/2015	22.0	14.0	6.0	6.0					38.0	23.0	9.0	18.0													
3/18/2015	22.0	14.0	6.0	6.0									25.0	19.0	9.0	10.0									
3/19/2015	20.0	13.0	5.0	4.0					27.0	14.0	8.0	18.0	28.0	21.0	9.0	12.0									
3/20/2015	31.0	20.0	6.0	6.0									27.0	20.0	9.0	8.0									
3/21/2015													33.0	21.0	8.5	6.0									
3/23/2015	29.0	19.0	6.5	7.0					7.0	4.0	5.0	3.0													
3/24/2015	26.0	17.0	5.5	6.0					28.0	11.0	7.0	9.0													
3/26/2015	26.0	17.0	6.5	6.0					33.0	18.0	8.5	18.0													
3/30/2015	28.0	18.0	6.5	6.0					34.0	17.0	8.0	18.0	29.0	26.0	8.5	8.0									
3/31/2015	23.0	15.0	6.0	6.0					24.0	9.0	4.0	12.0	36.0	30.0	9.0	6.0									
First Quarter Totals	**274.0**	**176.0**	**68.0**	**71.0**	**0.0**	**0.0**	**0.0**	**0.0**	**300.0**	**181.0**	**85.5**	**162.0**	**260.0**	**191.0**	**75.0**	**71.0**	**8.0**	**6.0**	**0.0**	**0.0**		**0.0**	**0.0**	**0.0**	**0.0**
4/1/2015	26.0	17.0	6.0	6.0					30.0	19.0	9.0	20.0	25.0	18.0	6.0	4.0	7.0	4.0							
4/2/2015	28.0	18.0	6.5	6.0					31.0	18.0	9.0	18.0	33.0	12.0	6.5	6.0		1.0	2.5						
4/3/2015	25.0	16.0	6.5	6.0																					
4/6/2015	41.0	27.0	8.5	7.0	29.0	13.0	8.0	18.0	37.0	25.0	9.0	20.0	62.0	35.0	17.8	7.0									
4/7/2015	46.0	30.0	8.5	7.0	28.0	15.0	9.0	21.0	30.0	19.0	8.0	22.0	28.0	17.0	9.0	3.0									
4/8/2015	20.0	13.0	4.0	6.0	16.0	6.0	6.0	9.0	34.0	18.0	9.0	18.0	15.0	8.0	4.0	2.0									
4/9/2015	32.0	21.0	7.5	7.0	29.0	14.0	9.0	30.0					31.0	15.0	8.5	4.0									
4/13/2015	37.0	24.0	8.5	7.0	31.0	13.0	9.0	33.0	30.0	19.0	9.0	24.0	29.0	16.0	9.0	12.0									
4/14/2015	36.0	23.0	8.5	6.0	32.0	16.0	9.0	33.0	32.0	21.0	9.0	24.0	30.0	16.0	9.0	5.0									
4/15/2015	41.0	27.0	8.5	6.0	33.0	15.0	9.0	33.0	33.0	21.0	9.0	24.0	27.0	14.0	9.0	8.0									
4/16/2015	47.0	31.0	8.5	6.0	28.0	16.0	6.0	33.0	30.0	20.0	6.0	20.0	26.0	14.0	9.0	2.0	12.0	9.0	6.0	5.0					
4/20/2015	25.0	16.0	5.0	5.0	15.0	4.0	4.0	9.0					17.0	9.0	7.0	2.0									
4/21/2015	37.0	24.0	8.5	12.0	34.0	16.0	9.0	33.0	36.0	25.0	9.0	24.0	39.0	26.0	9.0	3.0									
4/22/2015	31.0	20.0	8.5	15.0	31.0	16.0	9.0	30.0	34.0	24.0	9.0	24.0	37.0	25.0	9.0	5.0									
4/23/2015	31.0	20.0	8.5	15.0	21.0	8.0	3.5	12.0	36.0	22.0	9.0	24.0	34.0	21.0	7.5	6.0	6.0	5.0			121233			2.0	
4/24/2015																									
4/27/2015	31.0	2.0	8.5	15.0	27.0	17.0	9.0	21.0	24.0	16.0	9.0	8.0													
4/28/2015	35.0	23.0	8.5	15.0	24.0	17.0	9.0	18.0	32.0	19.0	9.0	12.0													
4/29/2015	21.0	13.0	4.5	9.0	36.0	14.0	9.0	15.0	13.0	10.0	4.5	4.0													

	109				110				113				47				Downtown				Emergencies				
	Miles	Broom Miles	Hrs Swept	Yards of Debris	Miles	Broom Miles	Hrs Swept	Yards of Debris	Miles	Broom Miles	Hrs Swept	Yards of Debris	Miles	Broom Miles	Hrs Swept	Yards of Debris	Miles	Broom Miles	Hrs Swept	Yards of Debris	Work Order	Miles	Broom Miles	Hrs Swept	Yards of Debris
4/30/2015	25.0	16.0	5.0	6.0	36.0	13.0	7.0	15.0	25.0	10.0	6.0	13.0					7.0	10.0	3.5						
5/4/2015	25.0	16.0	7.0	9.0	38.0	20.0	9.0	12.0	35.0	20.0	8.0	18.0													
5/5/2015	36.0	23.0	8.5	9.0	47.0	24.0	9.0	12.0	37.0	27.0	9.0	24.0													
5/6/2015	34.0	22.0	8.0	6.0	39.0	17.0	18.0	12.0	35.0	21.0	8.5	18.0	33.0	21.0	9.0	4.0									
5/7/2015	35.0	23.0	7.8	7.0	30.0	20.0	7.0	12.0	35.0	20.0	7.0	18.0					15.0	12.0	4.0						
5/8/2015	31.0	20.0	7.0	10.0																					
5/9/2015																									
5/10/2015																									
5/11/2015	33.0	21.0	7.0	6.0									46.0	15.0	7.0	5.0	4.0	13.0	5.0	1.5					
5/12/2015	35.0	23.0	8.5	7.0	41.0	21.0	9.0	9.0	47.0	30.0	9.0	20.0	30.0	17.0	7.5	9.5					Ballard	6.0	6.0	1.0	1.0
5/13/2015	31.0	20.0	8.5	9.0	41.0	25.0	9.0	12.0	46.0	28.0	9.0	18.0	38.0	24.0	8.5	12.0									
5/14/2015	44.0	29.0	8.5	12.0	36.0	23.0	9.0	12.0	41.0	24.0	9.0	18.0	34.0	23.0	9.0	7.0									
5/15/2015																									
5/18/2015									18.0	10.0	8.5	15.0													
5/19/2015	36.0	24.0	8.5	12.0					32.0	21.0	9.0	18.0	35.0	24.0	9.0	6.0									
5/20/2015	35.0	23.0	8.5	12.0	35.0	24.0	9.0	13.0	34.0	23.0	9.0	18.0	39.0	26.0	9.0	9.0									
5/21/2015	32.0	21.0	8.5	12.0	31.0	21.0	9.0	15.0	36.0	22.0	9.0	18.0	39.0	27.0	9.0	2.0									
5/22/2015	45.0	29.0	8.5	9.0									46.0	17.0	6.0	5.0	4.0	16.0	5.0	1.0	Linwood	11.0	7.0	2.0	0.5
5/26/2015	35.0	23.0	9.5	12.0									43.0	17.0	7.5	5.0	4.0	13.0	5.0	0.5					
5/27/2015	36.0	24.0	8.5	15.0	39.0	27.0	9.0	18.0	38.0	21.0	9.0	18.0	41.0	24.0	10.0	8.0									
5/28/2015	28.0	18.0	7.5	15.0	33.0	20.0	8.5	21.0	34.0	25.0	24.0	24.0													
5/29/2015					28.0	18.0	6.5	18.0	20.0	16.0	9.0	24.0					19.0	11.0	2.5						
6/1/2015					29.0	22.0	6.5	9.0	22.0	16.0	8.0	20.0					13.0	9.0	2.5						
6/2/2015	29.0	19.0	8.5	12.0	39.0	26.0	9.0	15.0	37.0	25.0	9.0	24.0	45.0	27.0	9.0	7.0									
6/3/2015	31.0	20.0	8.0	12.0	37.0	20.0	8.5	12.0	31.0	23.0	8.5	18.0	37.0	23.0	9.0	12.0									
6/4/2015	33.0	21.0	8.3	12.0	25.0	18.0	8.0	9.0	25.0	20.0	8.0	16.0	34.0	22.0	8.5	10.0									
6/5/2015	27.0	17.0	8.5	9.0									33.0	11.0	7.0	8.0	1.0	15.0	5.5	0.5					
6/8/2015	26.0	17.0	7.5	9.0									41.0	12.0	6.5	5.0	4.0	15.0	5.5	0.5					
6/9/2015	30.0	19.0	8.0	12.0					34.0	21.0	9.0	18.0	32.0	21.0	9.0	10.0					300 W. College			0.3	
6/10/2015	28.0	18.0	7.0	9.0	33.0	18.0	8.5	20.0	30.0	21.0	9.0	18.0	31.0	21.0	8.0	8.0									
6/11/2015	36.0	24.0	8.5	12.0	34.0	17.0	9.0	20.0	29.0	19.0	8.0	16.0													
6/12/2015																									
6/15/2015													28.0	3.0	5.0	2.0		25.0	4.0						
6/16/2015	31.0	20.0	8.0	9.0	37.0	23.0	9.0	9.0	34.0	26.0	9.0	18.0	39.0	30.0	8.0	2.0									
6/17/2015	36.0	23.0	8.5	9.0	32.0	20.0	9.0	9.0	37.0	23.0	9.0	21.0	38.0	30.0	9.0	3.0									
6/18/2015	28.0	18.0	8.5	12.0	29.0	18.0	9.0	12.0	31.0	23.0	9.0	21.0													
6/19/2015	31.0	20.0	8.5	6.0					21.0	14.0	9.0	21.0					13.0	11.0	3.0	0.5					
6/22/2015	38.0	25.0	7.5	6.0					24.0	12.0	8.0	15.0					4.0	4.0	2.5	0.5					
6/23/2015	31.0	20.0	8.5	6.0					31.0	20.0	9.0	18.0													
6/24/2015	32.0	21.0	8.0	6.0	30.0	18.0	9.0	12.0	31.0	23.0	9.0	21.0	35.0	25.0	9.0	5.0									
6/25/2015	25.0	16.0	8.0	12.0	27.0	16.0	8.0	12.0	29.0	22.0	9.0	18.0	55.0	30.0	9.0	4.0									
6/26/2015					21.0	16.0	7.0	12.0					35.0	16.0	6.5	2.0	7.0	12.0	4.5						
6/29/2015									14.0	10.0	8.5	18.0					12.0	9.0							
6/30/2015									26.0	20.0	9.0	18.0	49.0	33.0	10.0	4.0									
Second Quarter Totals	**1658.0**	**1058.0**	**398.5**	**477.0**	**1261.0**	**705.0**	**337.0**	**680.0**	**1461.0**	**952.0**	**417.5**	**887.0**	**1389.0**	**785.0**	**325.3**	**223.5**	**132.0**	**194.0**	**61.0**	**10.0**		**17.0**	**13.0**	**5.3**	**1.5**
Year to Date	**1932.0**	**1234.0**	**466.5**	**548.0**	**1261.0**	**705.0**	**337.0**	**680.0**	**1761.0**	**1133.0**	**503.0**	**1049.0**	**1649.0**	**976.0**	**400.3**	**294.5**	**140.0**	**200.0**	**61.0**	**10.0**		**17.0**	**13.0**	**5.3**	**1.5**

	109				110				113				47				Downtown				Emergencies				
	Miles	Broom Miles	Hrs Swept	Yards of Debris	Miles	Broom Miles	Hrs Swept	Yards of Debris	Miles	Broom Miles	Hrs Swept	Yards of Debris	Miles	Broom Miles	Hrs Swept	Yards of Debris	Miles	Broom Miles	Hrs Swept	Yards of Debris	Work Order	Miles	Broom Miles	Hrs Swept	Yards of Debris
Year to Date Total Yards of Debris	2583.0																								
7/1/2015									33.0	29.0	10.0	18.0	38.0	32.0	9.0	5.0									
7/2/2015													42.0	16.0	5.0	1.0		15.0	3.5						
7/6/2015	28.0	18.0	7.5	6.0									40.0	19.0	7.0	3.0	4.0	10.0	5.0	0.5					
7/7/2015	24.0	15.0	7.5	9.0					26.0	21.0	8.0	18.0	32.0	21.0	7.0	3.0									
7/8/2015	25.0	16.0	8.5	9.0	29.0	23.0	9.0	12.0	29.0	23.0	9.0	18.0	39.0	29.0	9.0	2.0									
7/9/2015	35.0	22.0	8.5	6.0	35.0	23.0	9.0	9.0	36.0	26.0	9.0	18.0													
7/10/2015					29.0	18.0	7.0	9.0	30.0	18.0	8.0	18.0					17.0	10.0	2.0						
7/11/2015																									
7/13/2015									28.0	2.0	8.5	15.0													
7/14/2015																									
7/15/2015	29.0	19.0	8.0	9.0	30.0	20.0	8.5	12.0	31.0	20.0	8.5	21.0	23.0	18.0	6.5	3.0									
7/16/2015	33.0	21.0	8.5	9.0	33.0	20.0	9.0	12.0	38.0	29.0	9.0	21.0	37.0	23.0	9.0	4.0									
7/17/2015	31.0	20.0	8.0	9.0									45.0	10.0	5.5	1.0	4.0	16.0	5.5	0.5					
7/18/2015																					Rankin/Nawada	4.0	2.0	1.0	0.5
7/20/2015	29.0	19.0	7.5	6.0									41.0	14.0	6.0	1.5	4.0	11.0	4.5	0.5					
7/21/2015	31.0	20.0	8.5	7.0					34.0	20.0	9.0	18.0	37.0	26.0	9.0	2.5									
7/22/2015	35.0	22.0	8.5	9.0	35.0	21.0	9.0	12.0	32.0	20.0	9.0	18.0	28.0	21.0	8.5	3.0									
7/23/2015					30.0	20.0	9.0	12.0	31.0	24.0	9.0	18.0									197113	10.0	5.0	1.5	0.1
7/24/2015					25.0	15.0	7.0	9.0	28.0	17.0	7.0	21.0					11.0	8.0	4.0						
7/27/2015									22.0	15.0	8.5	18.0					7.0	6.0							
7/28/2015	31.0	2.0	8.5	9.0	30.0	17.0	9.0	12.0	29.0	21.0	9.0	20.0	39.0	22.0	8.0	2.0					John St		4.0	1.0	
7/29/2015	23.0	15.0	7.5	9.0	25.0	15.0	7.5	9.0	31.0	21.0	9.0	21.0	32.0	20.0	7.0	1.5									
7/30/2015	34.0	22.0	8.5	9.0	29.0	20.0	9.0	12.0	33.0	23.0	9.0	21.0	37.0	20.0	7.8	6.0					181249		2.0	1.3	
7/31/2015	25.0	16.0	7.5	6.0									34.0	13.0	6.0	1.0	4.0	12.0	5.0	0.5					
8/3/2015	25.0	16.0	7.5	6.0									36.0	14.0	5.5	1.5	4.0	13.0	5.0	0.5		1.0	1.0	0.5	
8/4/2015	16.0	10.0	7.0	6.0					28.0	23.0	9.0	21.0	31.0	20.0	8.0	2.5									
8/5/2015	24.0	15.0	6.0	6.0	27.0	19.0	9.0	12.0	31.0	26.0	9.0	21.0													
8/6/2015	41.0	27.0	8.5	6.0	28.0	17.0	9.0	12.0	31.0	23.0	9.0	24.0													
8/7/2015					24.0	10.0	6.0	9.0	30.0	16.0	9.0	21.0					13.0	9.0	2.5						
8/8/2015																	21.0	14.0	4.0	0.5	Mile/Music	19.0	12.0	4.0	0.5
8/9/2015																	20.0	12.0	3.5	0.5	Mile/Music	20.0	13.0	4.0	1.0
8/10/2015									15.0	10.0	4.0	18.0					13.0	10.0	5.0						
8/11/2015	28.0	18.0	8.5	9.0	40.0	26.0	9.0	8.0	32.0	26.0	9.0	18.0	41.0	28.0	9.0	1.5									
8/12/2015	28.0	18.0	8.5	6.0	29.0	21.0	9.0	9.0	31.0	25.0	9.0	18.0	33.0	23.0	9.0	2.0									
8/13/2015	21.0	13.0	5.5	6.0	30.0	17.0	9.0	9.0	33.0	21.0	9.0	21.0	39.0	24.0	7.5	1.5		3.0	1.0						
8/14/2015	33.0	21.0	8.5	7.0									43.0	20.0	7.0	0.5	12.0	6.0	3.0	0.5					
8/17/2015	26.0	17.0	7.5	6.0									46.0	21.0	6.5	1.0	4.0	12.0	6.0	0.5					
8/18/2015	36.0	23.0	8.0	6.0					30.0	18.0	8.5	21.0	28.0	25.0	8.0	1.0									
8/19/2015					29.0	13.0	7.0	7.0					23.0	19.0	4.5	0.5									
8/20/2015	25.0	16.0	8.0	7.0					30.0	16.0	8.0	18.0													
8/21/2015									16.0	8.0	4.0	12.0					15.0	10.0	4.0						
8/24/2015					20.0	10.0	6.0	9.0	20.0	14.0	9.0	12.0					18.0	11.0	3.0						
8/25/2015	40.0	26.0	8.5	7.0	29.0	19.0	9.0	9.0	26.0	12.0	6.0	10.0	35.0	24.0	8.5	1.5									

	109				110				113				47				Downtown				Emergencies				
	Miles	Broom Miles	Hrs Swept	Yards of Debris	Miles	Broom Miles	Hrs Swept	Yards of Debris	Miles	Broom Miles	Hrs Swept	Yards of Debris	Miles	Broom Miles	Hrs Swept	Yards of Debris	Miles	Broom Miles	Hrs Swept	Yards of Debris	Work Order	Miles	Broom Miles	Hrs Swept	Yards of Debris
8/26/2015	28.0	18.0	8.0	9.0	34.0	13.0	7.0	9.0	35.0	22.0	9.0	21.0	44.0	29.0	9.0	2.0									
8/27/2015	25.0	16.0	8.5	9.0					38.0	25.0	8.5	21.0	22.0	2.0	1.5	0.5	9.0	13.0	6.0	2.5					
8/28/2015	25.0	16.0	5.5	3.0													4.0	4.0	2.5	0.5					
8/31/2015	21.0	13.0	7.0	6.0									48.0	21.0	6.5	1.0	4.0	12.0	5.5	0.5					
9/1/2015	21.0	13.0	5.0	6.0	33.0	22.0	9.0	10.0	31.0	23.0	9.0	21.0	26.0	14.0	4.5	2.0					114930		5.0	1.5	
9/2/2015	36.0	23.0	8.5	9.0	34.0	21.0	9.0	9.0	36.0	26.0	9.0	21.0	37.0	20.0	5.0	2.0					114930		4.0	1.5	
9/3/2015	24.0	15.0	6.0	6.0	22.0	10.0	6.0	6.0													OO/Meade		1.0	1.5	
9/4/2015					24.0	17.0	6.0	10.0	25.0	14.0	8.0	18.0					11.0	9.0	3.0						
9/8/2015									25.00	20.0	9	18													
9/9/2015	28.0	18.0	6.5	6.0					30.0	25.0	9.5	21.0	43.0	30.0	9.0	3.0									
9/10/2015	27.0	17.0	8.5	9.0									23.0	10.0	6.0	1.0									
9/11/2015	25.0	16.0	8.5	9.0									28.0	6.0	3.5	1.0	4.0	12.0	2.5						
9/14/2015	31.0	20.0	7.5	7.0									46.0	22.0	6.5	3.0	4.0	12.0	2.5						
9/15/2015	39.0	25.0	8.5	9.0	27.0	20.0	9.0	12.0	3.0	2.0	2.0	3.0													
9/16/2015	24.0	15.0	8.5	9.0	38.0	24.0	8.0	9.0	21.0	15.0	7.0	18.0	33.0	24.0	9.0	2.5									
9/17/2015					39.0	26.0	9.0	7.0	32.0	25.0	9.0	21.0													
9/18/2015	14.0	3.0	2.5	3.0																					
9/21/2015					20.0	14.0	6.0	6.0	20.0	16.0	9.0	18.0					15.0	10.0	3.0						
9/22/2015	27.0	17.0	8.0	9.0	38.0	23.0	9.0	9.0	28.0	20.0	9.0	18.0	35.0	26.0	9.0	3.0									
9/23/2015	28.0	18.0	8.0	6.0	28.0	18.0	8.0	18.0	30.0	20.0	8.5	18.0	35.0	27.0	9.0	3.0									
9/24/2015	34.0	22.0	8.3	9.0	31.0	18.0	9.0	15.0	28.0	19.0	9.0	21.0	28.0	20.0	5.5	4.0					Badger			3.0	
9/25/2015	24.0	15.0	7.5	7.0	14.0	8.0	4.0	9.0					44.0	18.0	3.5			10.0	3.0		Badger			2.0	
9/26/2015													16.0	7.0	3.0	10.0	31.0	16.0	6.5	17.0	133715	8.0			3.0
9/28/2015	30.0	19.0	7.5	7.0									35.0	9.0	5.5	2.0	4.0	15.0	6.0	0.5					
9/29/2015	19.0	12.0	4.5	6.0									42.0	22.0	7.5	3.0									
9/30/2015	34.0	22.0	8.3	9.0	40.0	18.0	9.0	18.0	33.0	18.0	8.0	21.0	49.0	28.0	7.5	3.0									
Third Quarter Totals	**1320.0**	**820.0**	**356.0**	**343.0**	**1008.0**	**616.0**	**274.0**	**351.0**	**1259.0**	**857.0**	**365.5**	**816.0**	**1533.0**	**857.0**	**294.8**	**99.0**	**257.0**	**301.0**	**107.0**	**25.5**		**62.0**	**49.0**	**22.8**	**5.1**
Year to Date	**3252.0**	**2054.0**	**822.5**	**891.0**	**2269.0**	**1321.0**	**611.0**	**1031.0**	**3020.0**	**1990.0**	**868.5**	**1865.0**	**3182.0**	**1833.0**	**695.1**	**393.5**	**397.0**	**501.0**	**168.0**	**35.5**		**79.0**	**62.0**	**28.0**	**6.6**
Year to Date Total Yards of Debris	**4222.6**																								
10/1/2015	37.0	24.0	8.5	10.0	40.0	18.0	9.0	18.0	31.0	18.0	8.0	21.0													
10/2/2015					25.0	13.0	9.0	21.0	30.0	18.0	9.0	21.0					13.0	9.0							
10/5/2015					23.0	10.0	5.0	18.0	28.0	16.0	9.0	21.0					11.0	8.0	3.0						
10/6/2015	34.0	22.0	8.5	12.0	18.0	8.0	5.0	12.0	17.0	8.0	5.0	18.0													
10/7/2015	36.0	23.0	8.5	12.0	29.0	11.0	8.5	18.0	35.0	18.0	9.0	21.0	44.0	29.0	9.0	10.0									
10/8/2015	32.0	21.0	8.5	9.0	27.0	12.0	7.5	18.0	33.0	15.0	7.5	21.0	42.0	29.0	9.0	10.0									
10/9/2015	30.0	19.0	8.0	12.0									29.0	13.0	6.0	13.0		8.0	2.5						
10/12/2015	30.0	4.0	4.0	4.0									59.0	33.0	9.0		4.0	4.0	4.0	4.0					
10/13/2015													52.0	31.0	8.5										
10/14/2015													62.0	35.0	9.0										
10/15/2015	44.0	28.0		15.0	29.0	12.0	8.0	24.0	41.0	21.0	9.0	24.0	42.0	29.0	9.0		6.0	6.0	6.0	6.0					
10/19/2015													35.0	13.0	5.5	26.0		10.0	2.5						
11/2/2015													29.0	12.0	5.5	26.0		9.0	2.5						

	109				110				113				47				Downtown				Emergencies				
	Miles	Broom Miles	Hrs Swept	Yards of Debris	Miles	Broom Miles	Hrs Swept	Yards of Debris	Miles	Broom Miles	Hrs Swept	Yards of Debris	Miles	Broom Miles	Hrs Swept	Yards of Debris	Miles	Broom Miles	Hrs Swept	Yards of Debris	Work Order	Miles	Broom Miles	Hrs Swept	Yards of Debris
11/3/2015													35.0	23.0	9.0	26.0									
11/4/2015													40.0	22.0	8.0	28.0									
11/5/2015	38.0	24.0	8.0	12.0													12.0	12.0	5.0	4.0					
11/9/2015													41.0	26.0	9.0	26.0									
11/10/2015													48.0	27.0	9.0	28.0									
11/11/2015													46.0	26.0	11.0	30.0									
11/13/2015					25.0	12.0	7.5	12.0																	
11/16/2015																	22.0	14.0	6.5						
11/17/2015													26.0	24.0	8.0	23.0									
11/18/2015	44.0	29.0	8.5	20.0	37.0	18.0	7.5	12.0					34.0	22.0	9.0	25.0									
11/19/2015	29.0	23.0	8.0	25.0	22.0	19.0	10.0	16.0																	
11/20/2015	37.0	20.0	8.5	25.0	39.0	22.0	10.0	18.0																	
11/24/2015	27.0	18.0	4.0	20.0									43.0	8.0	4.5	10.0		20.0	5.0	18.0					
11/25/2015	28.0	20.0	5.0	25.0									34.0	21.0	7.5	13.0									
11/30/2015					31.0	14.0	9.0	18.0	30.0	21.0	9.0		40.0	28.0	8.5	14.0									
12/1/2015					32.0	18.0	9.0	18.0	32.0	22.0	9.0		55.0	27.0	9.0	26.0									
12/2/2015					28.0	14.0	9.0	24.0	35.0	21.0	9.5		47.0	29.0	8.0	19.0									
12/3/2015	28.0	18.0	8.5	20.0									45.0	20.0	6.5	23.0	5.0	13.0	6.5	6.0					
12/7/2015									28.0	18.0	9.0	Leaves													
12/8/2015					28.0	10.0	8.0	21.0	32.0	19.0	9.0	Leaves	39.0	23.0	7.0	12.0									
12/9/2015	34.0	22.0	7.5	15.0	26.0	9.0	8.0	18.0	36.0	19.0	9.0	Leaves													
12/10/2015	30.0	19.0	8.5	20.0	30.0	14.0	9.0	24.0	33.0	18.0	9.0	Leaves													
12/11/2015	31.0	20.0	8.5	20.0	27.0	14.0	9.0	21.0																	
12/12/2015	36.0	23.0	8.5	11.0													5.0	5.0	4.0	3.0					
12/16/2015									34.0	26.0	9.0	24.0	55.0	26.0	9.0	5.0									
12/17/2015									31.0	25.0	9.0	24.0	40.0	18.0	6.5	13.0		10.0	2.5						
12/18/2015									32.0	25.0	9.0	24.0	17.0	16.0	4.5	10.0									
12/22/2015									30.0	22.0	9.0	24.0													
12/23/2015													41.0	27.0	10.0	12.0									
12/24/2015													50.0	25.0	9.5	13.0									
Fourth Quarter Totals	**605.0**	**377.0**	**129.5**	**287.0**	**516.0**	**248.0**	**148.0**	**331.0**	**568.0**	**350.0**	**156.0**	**243.0**	**1170.0**	**662.0**	**224.0**	**441.0**	**78.0**	**128.0**	**50.0**	**41.0**		**0.0**	**0.0**	**0.0**	**0.0**
Year to Date	**3857.0**	**2431.0**	**952.0**	**1178.0**	**2785.0**	**1569.0**	**759.0**	**1362.0**	**3588.0**	**2340.0**	**1024.5**	**2108.0**	**4352.0**	**2495.0**	**919.1**	**834.5**	**475.0**	**629.0**	**218.0**	**76.5**		**79.0**	**62.0**	**28.0**	**6.6**

2015 Miles	15136.0
2015 Broom Miles	9526.0
2015 Hours Swept	3900.6
2015 Yard of Debris	5565.6

ATTACHMENT L

Sander calibration 2015

100lbs @ 30 mph =50lbs in 1 min

Truck #	Sander Calibration	Chloride Calibration	Sander Controls	Name	Current Material Rates	New rate	Pre-Wet Rates 10, 15 and 20
2	12/18/2015	12/18/2015	Force Amer .6100		14.3 lbs/rev	10.5	12/18/2015
3	12/14/2015	12/14/2015	Force Amer. 6100		4.8 lbs/rev	3.8	12/14/2015
5	12/16/2015	12/16/2015	Force Amer. 6100		11.8 lbs/rev	11.8	12/16/2015
7	12/15/2015	12/15/2015	Cirius		22.9 pulses/lb	21.3	12/15/2015
8	12/15/2015	12/15/2015	Cirius		22.2 pulses/lb	22.3	12/15/2015
9	12/15/2015	12/15/2015	Cirius		21.8 pulses /lb	21.7	12/15/2015
11	12/11/2015	12/11/2015	Force Amer.6100		3.2 lbs/rev	40	12/11/2015
13	1/19/2016	1/19/2016	Cirius		21 pulse/lb	20.8	12/28/2015
16	12/11/2015	12/11/2015	Force Amer.5100		15.5 lbs/rev	same	12/11/2015
17	1/21/2016	1/21/2016	Force Amer.6100		11.5lbs./rev	new	1/21/2016
18	12/14/2015	12/14/2015	Force Amer. 5100		2.2 lbs./rev.	same	12/14/2015
19	12/14/2015	12/14/2015	Force Amer 5100		3.1 lbs./rev.	3	12/14/2015
20	12/14/2015	12/14/2015	Cirius		20 pulses/lb	21.8	12/14/2015
21	10/21/2016	1/21/2016	Force Amer.6100		11.5lbs./rev	new	1/21/2016
22	12/11/2015	12/11/2015	Force Amer.6100		5.1 lbs/rev	new	12/11/2015
25	12/15/2015	12/15/2015	Cirius		21 pulses/lb	22.7	12/15/2015
26	12/14/2015	12/14/2015	Cirius		26 pulses/lb	30	12/14/2015
27	12/18/2015	12/18/2015	Cirius		4.4 pulses/lb	same	12/18/2015
29	12/15/2015	12/15/2015	Cirius		13.5 pulses/lb	same	12/15/2015
30	12/16/2015	12/16/2015	Force Amer 5100		30 lbs./rev.	same	12/16/2015
31	12/15/2015	12/15/2015	Monroe		N/A	good	
32	12/14/2015	12/14/2015	Force Amer.6100		4 lbs/rev	3.8	12/14/2015
34	12/16/2015	4/30/1903	Monroe		N/A	47lbs	
39	1/19/2016	1/19/2016	Force Amer 5100		.9 lbs/rev	same	12/28/2015
61	12/17/2015	12/17/2015	Cirius		4.2 pulses/lb	3.9	12/17/2015

Cirrus Lower the # = less salt
Force Lower the # = more salt

Chloride calibration Black flowmeter
200lbs @ 30 mph for 2 min = 1/10th or 1 gallon liquid

Rec'd 03/24/15

Wisconsin DOT - Bureau of Highway Maintenance
Material Storage Site Management
Sub-Site Inspection Report
Sub-Site Label: 3 - 44 - 118 - 2

District: 3
County: OUTAGAMIE
Site: 118
Sub-Site: 2

Site Address: 2625 East Glendale Avenue
Site City: Appleton 54911-1673

Material: Salt
Facility Type: Dome

Site Records Kept:
2625 East Glendale Avenue
Appleton, WI 54911

Ownership and Compliance

Owner: City of Appleton
Contact: Carrie Minges
Contact Phone: 920-832-3949
Contact Email: carrie.minges@appleton.org

Inspection

Date: 2/3/2015
Inspector: AECOM-Todd Laska

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

Note: Recent use
Follow-up:

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

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

3/19/2015 7:50:34 AM

Rec'd 03/24/15

Wisconsin DOT - Bureau of Highway Maintenance
Material Storage Site Management
Sub-Site Inspection Report
Sub-Site Label: 3 - 44 - 118 - 3

District: 3
County: OUTAGAMIE
Site: 118
Sub-Site: 3

Site Address: 2625 East Glendale Avenue
Site City: Appleton 54911-1673

Material: Calcium Chloride - Liquid
Facility Type: Tank

Site Records Kept:
2625 East Glendale Avenue
Appleton, WI 54911

Ownership and Compliance

Owner: City of Appleton
Contact: Carrie Minges
Contact Phone: 920-832-3949
Contact Email: carrie.minges@appleton.org

Inspection

Date: 2/3/2015
Inspector: AECOM-Todd Laska

Internal DOT Group	Code	Inspection Item	Response	Follow up
10	1	Solid material is stored on a concrete or asphalt pad	N/A	☐
10	1.1	Defects (cracks, holes, etc.) in apron		☐
10	1.2	Defects (cracks, holes, etc.) in pad		☐
10	1.3	The pad under the stockpile directs water away from material		☐
10	2	If present, the design and condition of the berm contains runoff on the site's surface	No berm	☐
10	3	A catch basin or holding pond serves at least this subsite	N/A	☐
12	1	Repairs needed to tank	None	☐
12	2	Repairs needed to tank supports	N/A	☐
12	3	Repairs needed to tank fixtures	Minor	☐
12	4	Repairs needed to spill containment device	N/A	☐
14	1	Material amount spilled on apron (not from active or recent use)	None	☐
14	2	Material amount spilled on grounds (not from active or recent use)	None	☐
14	3	Salt from runoff is contained within the salt storage area away from open water sources	Yes	☐
14	4	Stored material is effectively protected from the elements	Yes	☐
14	5	Monthly material inventory records are available for this subsite	Yes	☐

Note:
Follow-up:

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

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

3/19/2015 7:50:34 AM

Rec'd 03/24/15

Wisconsin DOT - Bureau of Highway Maintenance
Material Storage Site Management
Sub-Site Inspection Report
Sub-Site Label: 3 - 44 - 118 - 5

District: 3
County: OUTAGAMIE
Site: 118
Sub-Site: 5

Site Address: 2625 East Glendale Avenue
Site City: Appleton 54911-1673

Material: Salt Brine
Facility Type: Tank

Site Records Kept:
2625 East Glendale Avenue
Appleton, WI 54911

Ownership and Compliance

Owner: City of Appleton
Contact: Carrie Minges
Contact Phone: 920-832-3949
Contact Email: carrie.minges@appleton.org

Inspection

Date: 2/3/2015
Inspector: AECOM-Todd Laska

Internal DOT Group	Code	Inspection Item	Response	Follow up
10	1	Solid material is stored on a concrete or asphalt pad	N/A	☐
10	1.1	Defects (cracks, holes, etc.) in apron		☐
10	1.2	Defects (cracks, holes, etc.) in pad		☐
10	1.3	The pad under the stockpile directs water away from material		☐
10	2	If present, the design and condition of the berm contains runoff on the site's surface	No berm	☐
10	3	A catch basin or holding pond serves at least this subsite	N/A	☐
12	1	Repairs needed to tank	None	☐
12	2	Repairs needed to tank supports	N/A	☐
12	3	Repairs needed to tank fixtures	None	☐
12	4	Repairs needed to spill containment device	N/A	☐
14	1	Material amount spilled on apron (not from active or recent use)	None	☐
14	2	Material amount spilled on grounds (not from active or recent use)	None	☐
14	3	Salt from runoff is contained within the salt storage area away from open water sources	Yes	☐
14	4	Stored material is effectively protected from the elements	Yes	☐
14	5	Monthly material inventory records are available for this subsite	Yes	☐

Note:
Follow-up:

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

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

3/19/2015 7:50:34 AM

SNOW & ICE CONDITIONS FLOW CHART

	Ice Storm	Above 20° <2"	Above 20° >2"	10° to 20° <2"	10° to 20° >2"	0° to 10° <2"	0° to 10° >2"	Below 0° <2"	Below 0° >2"	New Concrete Streets <2"	New Concrete Streets >2"
Plow Blade Down	No	↑ No	Yes	↑ No	Yes	↑ No	Yes	↑ No	Yes	↑ No	Yes
On Arterials		↓ Yes	Yes	↓ Yes	Yes	↓ Yes	Yes	↓ Yes	Yes	↓ Yes	Yes
Sodium Chloride Rock Salt	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes Chip Mix	Yes Chip Mix	** See note below	** See note below
Chips	Yes	No	No	No	No	No	No	Yes	Yes	Below 0°	Below 0°
Prewet	No	Yes	Yes	Yes	Yes	Yes 80/20 only	Yes 80/20 only	*See note below	*See note below	**See note below	**See note below
Anti-Icing	Yes, if prior to storm	Brine or Mix	Brine or Mix	Mix	Mix	No	No	No	No	No	No
	No, if storm has started										

80/20 mix will be 80% salt brine and 20% calcium chloride, January 1st to March 1st only, prewet @ spinner (10 gal/ton)

↑ Conditions getting better
↓ Conditions getting worse

*Do not prewet with brine or 80/20 mix when temperatures are below 0 degrees. If necessary, calcium chloride may be used **but never on new concrete streets**.

New concrete, **primary streets will be salted the full length. Brine or 80/20 prewet only used on new concrete, primary streets.
New concrete, **secondary streets will be spot salted at intersections only. **No 80/20 prewet** used on new concrete, secondary streets.

Salt Calibration Options
1. 100 pounds (standard)
2. 200 pounds
3. 300 pounds
4. Blast 1000 lbs for 15 seconds
5. Trucks will mount plows (standard)

Salting Instructions
Arterials & Collectors - Salt both directions (up and back)
Residential Streets - Salt one direction (last pass only)

Revised 2/16/2016

PRFMD

Recycler mowing equipment

Attachment O

#535 Toro 72” Cut Zero Steer

#541 Toro 72” Cut Zero Steer

#549 Toro 72” Cut Zero Steer

#542 Toro 10.5’ Cut

#543 Toro 10.5’ Cut

#548 Toro 10.5’ Cut

#545 Toro 16’ Cut

#546 Toro 16’ Cut

All push mowers are Honda 5 H.P. with mulching decks.

To view Attachments P thru X please contact Sue Olson at sue.olson@appleton.org or (920) 832-6473

Snow & Ice 2015

	Tons Salt Used	Gallons Liquid Chloride	Gallons Salt Brine
January	1,027.67	1,033.06	12,508.90
February	808.38	812.62	9,839.63
March	202.04	203.09	2,459.19
April			
May			
June			
July			
August			
September			
October			
November	0.58	0.59	7.10
December	343.83	345.64	4,185.18
	2,382.50	2,395.00	29,000.00

2015 Public Ponds and Biofilters Inventory

ID NUMBER	NAME
1	Coop Road
2	Plank Rd Northwest
3	Memorial Park Northeast
4	Kensington
6	Ballard Rd
7	Plank Rd
8	South Point Commerce Park North (K2A)
9	Plank Rd West
10	Northeast Business Park
11	Emerald Valley
12	AAL (Thrivent or Glenhurst) West
13	Ashbury
14	Meade & Evergreen
15	Mud Creek South
16	Meade and JJ
19	AAL (Thrivent or Glenhurst) East
20	Apple Hill Farms Northeast (East Pond)
21	Crossing Meadows
22	Apple Hill Farms Phase 2 (G-1)
23	Apple Hill Farms-Southwest (Pond 3)
24	Apple Hill Farms Entrance (Pond 1A/1B)
25	Apple Hill Farms South (Pond 4)
26	Apple Hill Farms North (Pond 6)
27	South Point Commerce Park South (K2B)
28	Pershing
29	Apple Hill Ponds Low Pond
30	Apple Hill Farms High Pond
31	Apple Hill Farms Phase 1 (Pond 5)
32	Clearwater Creek
33	Holland Pond
34	Conkey Pond
35	Memorial Park South Pond
36	Northland Ave Biofilter
37	College Ave SW Biofilter
38	College Ave NE Biofilter
39	College Ave SE Biofilter
40	Mackville Road Pond
41	Thomas Court Pond
42	Reid Golf Course South Pond
43	Reid Golf Course East Pond
44	Glacier Ridge Werner NW
45	Glacier Ridge Werner SW
46	Glacier Ridge Werner S
47	Glacier Ridge SE (Kurey)

LOCATION
West Side of Coop Road, East of Plank Rd/Eisenhower Dr Intersection
600 ft North of Plank Road and 2000 ft West of Lake Park Road
North Side of Witzke Blvd, 300 ft West of Witzke Blvd/Ballard Road Intersection
300 ft Southeast of the Kensington Drive/Lourdes Drive Instersection
700 ft West of the Ballard Road/Evergreen Dr Intersection
SE Corner of Lakeland Dr/Plank Road Intersection
300 ft South of STH 441/Calumet Street Intersection
South Side of Plank Road, 2000 ft West of Lake Park Road
West Side of French Road, 300 ft South of Evergreen Dr/French Rd Intersection
West Side of French Road, 150 ft South of Rubyred Dr
East Side of Ballard Road, 600 ft North of Milestone Dr
North Side of Ashbury Dr, 500 ft West of Providence Ave
NW Corner of Meade St/Evergreen Dr Intersection
East Side of Richmond St, 900 ft North of Evergreen Dr
SW Corner of Meade St/Edgewood Dr (CTH JJ) Intersection
500 ft NE of Milestone Dr/Glenhurst La Intersection
200 ft North of Applhill Blvd/Apple Creek Rd (CTH E) Intersection
500 ft West of Clayhill Dr/Crossing Meadows La Intersection
350 ft North of Ashford Ct/Celtic Cir Intersection
NE Corner of Ballard Rd (CTH EE)/Apple Creek Rd (CTH E) Intersection
NE Corner and SE Corner of Ballard Rd (CTH EE)/Applehill Blvd Intersection
1100 ft NE of Ballard Rd (CTH EE)/Apple Creek Rd (CTH E) Intersection
South Side of Stirling Pkwy, 250 ft East of Gullwing Ct
South Side of Plank Road, 900 ft East of Quest Dr
200 ft North of Pershing St/Sandra St Intersection
North Side of Apple Creek Rd (CTH E), 150 ft East of Broadway Drive
South Side of Applehill Blvd, 300 ft East of Purdy Parkway
SE Corner of Smoketree Pass/Stirling Pkwy Intersection
150 ft North of Bluewater Way/Midsummer Dr Intersection
South Side of Edgewood Dr (CTH JJ), 600 ft West of Holland Road
West Side of Conkey St/Pershing St Intersection
North Side of Northland Ave (CTH OO), 1300 ft West of Ballard Rd (CTH E)
NW Corner of Northland Ave/Roemer Rd Intersection
SW Corner of College Ave Bridge Over Fox River
NE Corner of College Ave Bridge Over Fox River
SE Corner of College Ave Bridge Over Fox River
SE Corner of Ballard Rd/Mackville Rd Intersection
East Side of Ballard Rd, 150 ft South of Thomas Court Cul-de-Sac
200 ft North of Calumet St/Greenview St Intersection
West Side of Kernan Ave, 800 ft North of Calumet St
NE Corner of Kurey Dr/Wener Rd Intersection
300 ft East of Kurey Dr/Werner Rd Intersection
600 ft East of Kury Dr/Werner Rd Intersection
200 ft East and 300 ft North of Kurey Dr/Broadway Dr Intersection

ATTACHMENT Z2

BASIN_MH	LOCATION	RIM_ELEV	CONE_MATERIAL	CONE_YEAR	BARREL_MATERIAL	BARREL_YEAR	DEPTH	DIAMETER	QUARTER_SECTION	OWNER	NODE_TYPE	NODE_SUBTYPE	WATER_QUALITY	SUMP_DEPTH	UNIT_NUM	MANHOLE_NUMBER	INLET_ID	BASIN_ID	SUMP	NOTE	CONDITION	INVERTELEV	SUMFLOW
Z-87	Woodland A	762.10	Precast	0	Precast	2010	10	8		City of Appleton	MANHOLE	1	STORMCEPTOR	4	W-10	87		Z	YES			0.00	0.00
C-92A	120' E/O Law	768.90		0	Precast	2010	3	BOX		City of Appleton	INLET	2		4	W-10	92	A	C	YES			0.00	0.00
C-518A	215' E/O Law	768.40		0	Precast	2010	3	BOX		City of Appleton	INLET	2		4	W-10	518	A	C	YES			0.00	0.00
C-499A	170' S/O Sun	768.50		0	Precast	2010	5	BOX		City of Appleton	INLET	2		4		499	A	C	YES			0.00	0.00
KK-53	Edison Ave/(	719.42	Precast	0	Precast	2009	11	8		City of Appleton	MANHOLE	1		4	Y-09	53		KK	YES			0.00	0.00
KK-48	110' N/O Sou	722.88	Precast	0	Precast	2009	10	4		City of Appleton	MANHOLE	1		4	Y-09	48		KK	YES			0.00	0.00
DD-26A	College Ave/	766.23		0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		26	A	DD	YES			0.00	0.00
DD-26B	College Ave/	766.28		0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		26	B	DD	YES			0.00	0.00
DD-22A	College Ave/	760.35		0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		22	A	DD	YES			0.00	0.00
DD-22B	College Ave/	760.46		0	Precast	2009	5	BOX		City of Appleton	INLET	2		2		22	B	DD	YES			0.00	0.00
MM-25B	College Ave/	756.71		0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		25	B	MM	YES			0.00	0.00
MM-25A	College Ave/	756.58		0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		25	A	MM	YES			0.00	0.00
DD-20F	College Ave/	757.27		0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		20	F	DD	YES			0.00	0.00
DD-20D	College Ave/	757.23		0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		20	D	DD	YES			0.00	0.00
DD-126B	College Ave/	757.93		0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		126	B	DD	YES			0.00	0.00
DD-126A	College Ave/	757.97		0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		126	A	DD	YES			0.00	0.00
KK-58	South Island	713.72	Precast	0	Precast	0	8	8		City of Appleton	MANHOLE	1		4	T-09	58		KK	YES			0.00	0.00
DD-17A	College Ave/	756.36		0	Precast	2009	3	BOX		City of Appleton	INLET	2		2		17	A	DD	YES			0.00	0.00
DD-17B	College Ave/	756.22		0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		17	B	DD	YES			0.00	0.00
DD-139C	College Ave/	756.36		0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		139	C	DD	YES			0.00	0.00
DD-139B	College Ave/	756.45		0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		139	B	DD	YES			0.00	0.00
DD-84B	College Ave/	754.51		0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		84	B	DD	YES			0.00	0.00
DD-84A	College Ave/	754.56		0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		84	A	DD	YES			0.00	0.00
DD-85A	College Ave/	754.52		0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		85	A	DD	YES			0.00	0.00
DD-85B	College Ave/	754.46		0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		85	B	DD	YES			0.00	0.00
DD-88A	College Ave/	753.46		0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		88	A	DD	YES			0.00	0.00
DD-88B	College Ave/	753.46		0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		88	B	DD	YES			0.00	0.00
CC-51B	College Ave/	752.37		0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		51	B	CC	YES			0.00	0.00
CC-51A	College Ave/	752.46		0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		51	A	CC	YES			0.00	0.00
CC-49B	College Ave/	751.17		0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		49	B	CC	YES			0.00	0.00
CC-49A	College Ave/	751.17		0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		49	A	CC	YES			0.00	0.00
CC-44A	College Ave/	749.98		0	Precast	2009	5	BOX		City of Appleton	INLET	2		2		44	A	CC	YES			0.00	0.00
CC-44B	College Ave/	749.98		0	Precast	2009	4			City of Appleton	INLET	2		2		44	B	CC	YES			0.00	0.00
CC-43B	College Ave/	750.04		0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		43	B	CC	YES			0.00	0.00
N-304B	Banta Ct/15	718.70		0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		304	B	N	YES			0.00	0.00
N-319A	Banta Ct/22	721.48		0	Precast	2009	7	BOX		City of Appleton	INLET	2		2		319	A	N	YES			0.00	0.00
N-305A	Banta Ct/31	716.36	Precast	0	Precast	2009	4	BOX		City of Appleton	INLET	2		2		305	A	N	YES			0.00	0.00
N-309B	Banta Ct/16	0.00		0		0	0		S52	City of Appleton	INLET	2		2		309	B	N	YES			0.00	0.00
F-47	Lawrence St,	777.91	Precast	2014	Precast	2014	17	8	Q52	City of Appleton	MANHOLE	1		4	X-14	47		F	YES			0.00	0.00
F-58	Lawrence St,	776.94	Precast	2014	Precast	2014	18	8	Q52	City of Appleton	MANHOLE	1		4	X-14	58		F	YES			0.00	0.00
HH-18	Lynndale Dr/	780.45	Precast	2013	Precast	2013	9	BOX		City of Appleton	MANHOLE	1		4	X-13	18		HH	YES	8'X8' BOX		0.00	0.00
KK-39	Edison Ave/(	718.88	Precast	0	Precast	2009	10	8		City of Appleton	MANHOLE	1		4	Y-09	39		KK	YES			0.00	0.00
C-147	Washington	782.90	Precast	2011	Precast	2011	11	5		City of Appleton	MANHOLE	1	HSD	4	W-11	147		C	YES			0.00	0.00
KK-23	South River S	741.55	Precast	2012	Precast	2012	11	8	R53	City of Appleton	MANHOLE	1		4	Y-12	23		KK	YES			0.00	0.00
W-141	Eighth St/Do	806.31	Precast	2012	Precast	2012	16	BOX	O52	City of Appleton	MANHOLE	1		4	Y-12	141		W	YES			0.00	0.00
KK-3	Eighth St/18	744.50	Precast	2012	Precast	2012	12	8	R53	City of Appleton	MANHOLE	1		4	Y-12	3		KK	YES			0.00	0.00
KK-75	Olde Oneida	764.10	Precast	2017	Precast	2017	14	4	R53	City of Appleton	PROPOSED MANHOLE	12	HSD	4	A-17	75		KK	YES			0.00	0.00
CE-2A	Riverheath V	717.34	Precast	2013	Precast	2013	4	8	S52	City of Appleton	INLET	2		4	BB-08	2	A	CE	YES			0.00	0.00
CE-2B	Riverheath V	717.35	Precast	2013	Precast	2013	4	8	S52	City of Appleton	INLET	2		4	BB-08	2	B	CE	YES			0.00	0.00
CE-3B	Riverheath V	716.71	Precast	2013	Precast	2013	4	8	S52	City of Appleton	INLET	2		4	BB-08	3	B	CE	YES			0.00	0.00
CE-3A	Riverheath V	716.14	Precast	2013	Precast	2013	4	8	S52	City of Appleton	INLET	2		4	BB-08	3	A	CE	YES			0.00	0.00
CE-4A	Riverheath V	716.05	Precast	2013	Precast	2013	4	8	S52	City of Appleton	INLET	2		4	BB-08	4	A	CE	YES			0.00	0.00
CE-4B	Riverheath V	715.98	Precast	2013	Precast	2013	4	8	S52	City of Appleton	INLET	2		4	BB-08	4	B	CE	YES			0.00	0.00
CE-6A	Riverheath V	716.21	Precast	2013	Precast	2013	4	8	S52	City of Appleton	INLET	2		4	BB-08	6	A	CE	YES			0.00	0.00
CE-6B	Riverheath V	716.19	Precast	2013	Precast	2013	4	8	S52	City of Appleton	INLET	2		4	BB-08	6	B	CE	YES			0.00	0.00
CE-18A	Newberry St	739.18	Precast	2013	Precast	2013	4	8	T52	City of Appleton	INLET	2		4	BB-08	18	A	CE	YES			0.00	0.00
CE-19A	Newberry St	743.04	Precast	2013	Precast	2013	4	8	T52	City of Appleton	INLET	2		4	BB-08	19	A	CE	YES			0.00	0.00
CE-23B	Newberry St	758.88	Precast	2013	Precast	2013	4	8	T52	City of Appleton	INLET	2		4	BB-08	23	B	CE	YES			0.00	0.00
CE-23A	Newberry St	758.86	Precast	2013	Precast	2013	4	8	T52	City of Appleton	INLET	2		4	BB-08	23	A	CE	YES			0.00	0.00
CE-25B	Newberry St	756.90	Precast	2013	Precast	2013	4	8	T52	City of Appleton	INLET	2		4	BB-08	25	B	CE	YES			0.00	0.00
CE-25A	Newberry St	756.95	Precast	2013	Precast	2013	4	8	T52	City of Appleton	INLET	2		4	BB-08	25	A	CE	YES			0.00	0.00
BB-246	Madison St/(	787.80	Precast	2014	Precast	2014	5	10	R54	City of Appleton	MANHOLE	1		3.5		246		BB	YES			0.00	0.00
QQ-63	Glendale Ave	738.85	Precast	2014	Precast	2014	9	8	V49	City of Appleton	MANHOLE	1		4	X-14	63		QQ	YES			0.00	0.00
	Vermillion St	797.90	Precast	2015	Precast	2015	3	4	R57	City of Appleton	INLET	2		1		24	A	UU	YES			0.00	0.00
	Vermillion St	797.70	Precast	2015	Precast	2015	3	4	R57	City of Appleton	INLET	2		1		26		UU	YES	1' SUMP		0.00	0.00

"…meeting community needs…enhancing quality of life."

Attachment AA

2015 City of Appleton Erosion Control Report

Erosion Control Inspections

Ordinance:	154
Residential:	359
Complaints:	10 (includes reinspections)
Stormwater Permit:	12 (Initial & follow-up inspections for 2015 spot checks w/Sue Olson)

Erosion Control Enforcement Actions

	Verbal Notice	Written Notice	Stop Work Order	Citation
Ordinance:	71	6	0	0
Residential:	80	40	3	0

Stormwater Permit Enforcement Actions

Written Notice	Citation
5	0

REQUEST	REQ TYPE DESC	REQUEST DESC	PARCEL #	HOUSE NUMBER	DIR N/S E/W	STREET NAME	STR TYP	REQST STAT	ASSIGNED TO EMP	DATEISS	ADD	OWNER LAST NAME	OWNER FIRST NAME
126355	EROSION CONTROL	SEDIMENT LADEN WATER COMING FROM THIS HOME	31-1-9200-19	6504	N	SMOKETREE	PASS	C	4,731	6/9/2015	6504 N SMOKETREE PASS	GHARABEIGHLOU ET AL	KEYVAN
126356	EROSION CONTROL	SEDIMENT LADEN WATER COMING FROM HOME	31-1-9200-22	6733	N	GULLWING	CT	C	4,731	6/9/2015	6733 N GULLWING CT	TRETINYAK	ALEXANDER
126791	EROSION CONTROL	MUD PLUGGING STORM SEWERS DUE TO NEW CONSTRUCTION	31-1-9200-70	6930	N	PURDY	PKWY	C	4,731	6/15/2015	6930 N PURDY PKWY	HOGAN TRUST	DAVID
127814	EROSION CONTROL	EROSION ISSUES	31-5-2381-00	700	W	WISCONSIN	AVE	C	4,563	6/30/2015	700 W WISCONSIN AVE	SCP 2009-C34-090 LLC	
135238	EROSION CONTROL	MUD IN STREET	31-1-6406-00	4312	N	LIGHTNING	DR	C	3,004	11/11/2015	4312 N LIGHTNING DR	TRAIL'S EDGE	APARTMENTS LLC

ATTACHMENT BB

ADOPTED: September 2, 2015
PUBLISHED: September 7, 2015
Office of the City Clerk
E: September 8 2015

66-15

AN ORDINANCE CREATING SECTION 12-37 OF CHAPTER 12 OF THE MUNICIPAL CODE OF THE CITY OF APPLETON, RELATING TO COMPOSTING.
(Municipal Services Committee – 8-19-15)

The Common Council of the City of Appleton does ordain as follows:

Section 1: That Section 12-37 of Chapter 12 of the Municipal Code of the City of Appleton, relating to composting, is hereby created to read as follows:

Sec. 12-37. Composting.

(a) ***Purpose and intent.*** The purpose of this section is to promote the recycling of yard waste and food scraps through composting, and to establish minimum standards for proper compost maintenance.

(b) ***Exemptions. Composting done by the following parcels is exempt from this section:***

(1) Parcels that are zone Agriculture or have obtained a Special Use as an Urban Farm, in accordance with Section 23(h) (m) of the Zoning Ordinance.

(2) Parcels owned by the City of Appleton or are being used by the City of Appleton for municipal composting purposes.

(c) ***Definitions.***

(1) ***Composting*** shall mean a controlled biological reduction of organic wastes to humus.

(2) ***Compost barrel or barrel*** shall mean a barrel made of metal or plastic, fifty-five (55) gallons or larger, with a minimum of six (6) rows to a maximum of nine (9) rows of one-half (½) inch holes drilled into the barrel for ventilation, with a block or stone pedestal base for water release.

(3) ***Compost bin or bin*** shall mean a bin that is enclosed and free standing, constructed of rot-resistant wood such as cedar, arsenic free treated wood, plastic lumber, metal post and woven wire or hardware cloth. Bins shall be fastened to the ground to form stability. A bin shall be no at minimum three (3) feet tall and at maximum five (5) feet tall, with a minimum width

of three (3) feet and a maximum width of five (5) feet. Yard waste shall mean leaves, grass clippings, garden debris and brush.

(4) ***Compost pit or pit*** shall mean a pit in the ground that is a minimum of two (2) feet deep and a maximum of four (4) feet deep and covered at all times with a minimum of one (1) inch to a maximum of three (3) inches of soil.

(5) ***Compost trench or trench*** shall mean a trench in the ground that is at minimum eighteen (18) inches deep and covered at all times with a minimum of one (1) inch to a maximum of three (3) inches of soil.

(6) ***Food scraps*** shall mean raw fruits and vegetables and other food remains, such as, but not limited to, apples (peels and cores), cabbage, carrots, celery, coffee (grounds and filters), clean egg shells, grapefruit, lettuce, onion peels, orange peels, pears, pineapple, melon rinds, potatoes, pumpkin shells, squash, tea leaves, tomatoes, turnip leaves, etc.

(7) ***Yard waste*** shall mean leaves, grass clippings, garden vegetation and brush.

(d) ***Maintenance.*** All compost bins, pits, trenches, and barrels shall be maintained using approved composting structures and procedures to comply with the following requirements:

(1) Yard waste composting: Yard waste shall be composted in bins. Yard waste must be turned every one (1) to two (2) weeks. Yard waste bins may also contain food scrap. Any yard waste bin that is also used to compost food scraps must have a lid with a latching assembly system.

(2) Food scrap composting: Food scraps may be composted in bins, pits, trenches or barrels. Food scraps must be turned or tilled with soil every two (2) to three (3). Barrels and bins must have a lid with a latching assembly system.

(3) Should there be signs or evidence of rodents in or near a compost barrel, bin, pit, or trench, the Health Department must be notified and shall be authorized proceed under Sections 7-67 and 7-68.

(4) Should there be any unpleasant odor from the compost bin, barrel, pit or trench, steps must be taken immediately to abate the odor.

(e) ***Location.***

(1) Compost bins, pits, trenches, and barrels shall be located in the rear yard only.

(2) Compost bins, pits, trenches and barrels shall be at least three (3) feet from the side and rear property line.

(3) Subsections (e)(1) and (e)(2) shall not apply to a compost bin, pits, trenches, and barrels located in a side yard substantially screened from view from the street and from the ground level of the adjacent residences

by shrubs and other plantings or by fencing, provided that such plantings or fencing shall at all times exceed the height of the compost bin or pile by no less than one (1) foot.

(f) ***Ingredients.***

(1) No compost bins, pits, trenches, and barrels shall contain any of the following:

a. Lakeweeds;

b. Cooked food scraps, except coffee grounds and tea leaves;

c. Fish, meat or other animal products;

d. Dairy products;

e. Large items that will impede the composting process.

(2) Permitted ingredients in a compost bins, pits, trenches, and barrels shall include:

a. Yard waste;

b. Food Scraps;

c. Commercial compost additives.

(g) ***Owner Responsibility.*** Every owner or operator shall be responsible for maintaining all property under his or her control in accordance with the requirements of this section. Compost material generated shall be for private use only; to be used on the same parcel it was generated. Compost may not be sold.

(h) ***Penalty.*** Any person violating this section shall be subject to a forfeiture of not less than ten dollars ($10.00) or more than two hundred dollars ($200.00). Each day such violation continues shall be considered a separate offense.

Section 2: This ordinance shall be in full force and effect from and after its passage and publication.

Dated: September 2, 2015

Timothy M. Hanna, Mayor

Jamie L. Sova, Deputy City Clerk