

**Attachment 4 –**  
**SEWPBPD Biennial WPDES Report – March 31, 2021 to March 31, 2023 (except where noted)**

**Quarterly Stormwater Pond Inspection Reports and Documents**

*Where noted, refer to each relevant WPDES Permit at time of each inspection.*

- 3/22/2021 Quarterly Pond Inspection (note – provided w/ prior biennial report – part of annual term limits).
  - 6/3/2021 Quarterly Pond Inspection.
- 6/17 and 6/30/2021 Quarterly Pond Inspection – completed during dye testing events.
  - 6/24/2021 Memo – American Family Field-Storm Pond Inspection.
  - 6/30/2021 Memo – American Family Field-Storm Pond Inspection.
    - 9/24/2021 Quarterly Pond Inspection.
    - 12/6/2021 Quarterly Pond Inspection.
    - 3/16/2022 Quarterly Pond Inspection.
    - 6/28/2022 Quarterly Pond Inspection.
    - 8/18/2022 Quarterly Pond Inspection.
    - 11/23/2022 Quarterly Pond Inspection.
- 2022 Pond Survey – submitted to DNR previously (9/2022).

# Quarterly Pond Inspection

WPDES Permit No. WI-S049921-3

**Date:** March 22, 2021  
**Time:** 8:50 a.m. to 9:30 a.m.

**Inspector(s):** Gregory DuBois &  
Megan Ruemler  
**Weather:** 57°F, Sunny

## Visual Observations:

- **Pond Banks:** Banks are well-vegetated. A patch of woody vegetation is growing just northwest of the stormwater pond outfall (mainly sandbar willow). It does not prohibit access to the stormwater pond outfall. There were no NR 40 prohibited species observed.
- **Pond Outfall:** Water was not flowing through the pond orifice (approximately 1" below pond orifice). There was no debris observed around or within the outfall. Last rainfall event was March 18, 2021 (0.04" per NWS).
- **Pond Inlet:** The inlets have riprap. The inlet near the center of the pond was submerged. Both inlets were clear of debris. There was no flow within the nearby contributing storm sewer inlets off of the North Access Road or River East Lot.
- **Pond Discharge (Menomonee River):** Water within the Menomonee River is similar in clarity to the water flowing from the discharge.
- **Pollutants to Pond (hi-lite)?:** Discoloration Odor Sheen Algae Litter
- **Maintenance Recommendations:** MBBC to continue litter removal as they are able (due to ongoing COVID-19 many park operations are not at full capacity).

*Note: provided with 3/31/2019 – 3/31/2021 biennial report – part of annual term limits.*



# Quarterly Pond Inspection

WPDES Permit No. WI-S049921-3

**Date:** June 03, 2021

**Time:** 7:15 p.m. to 8:15 p.m.

**Inspector(s):** Gregory DuBois

**Weather:** 83°F, Partly Sunny

## Visual Observations:

- **Pond Banks:** Banks are vegetated. There is small amount of woody vegetation growing on the northwest side near the outfall – it will not obstruct vehicle access if needed.
- **Pond Outfall:** Water is not flowing out of the pond through the outfall. Water levels are approximately 10 inches below the orifice. There was no debris observed around or within the outfall. Last rainfall event was May 29, 2021 (0.20" per weather.com).
- **Pond Inlet:** No flow at inlets, no flow found in contributing storm sewer system at North Access Road nor River East Lot.
- **Pond Discharge (Menomonee River):** There was no flow observed from the discharge. The River water appears to have low turbidity.
- **Pollutants to Pond (hi-lite)?:** Discoloration Odor Sheen Algae Litter Minimal litter (blown from lots/roads) noted, litter noted from prior events cleaned up. No other pollutants observed.
- **Maintenance Recommendations:** Complete proposed dye testing. Clean up litter around pond banks. Fan activities have not been occurring at the Park. Recent activities with COVID-19 testing by others.



# Quarterly Pond Inspection – Note Dye Testing

WPDES Permit No. WI-S049921-3

**Date:** June 17 and 30, 2021

**Time:**

**Inspector(s):** Schwartz

**Weather:** 70s F both days

SEE MEMOS RELATED TO DYE TESTING DATED  
6/24/2021 AND 6/30/2021.

## Visual Observations:

- **Pond Banks:** Banks are vegetated. There is small amount of woody vegetation growing on the northwest side near the outfall – it will not obstruct vehicle access if needed.
- **Pond Outfall:** See Memos
- **Pond Inlet:** No flow at inlets, no flow found in contributing storm sewer system at North Access Road or River East Lot.
- **Pond Discharge (Menomonee River):** See Memos
- **Pollutants to Pond (hi-lite)?:** Discoloration Odor Sheen Algae **Litter**
- **Maintenance Recommendations:** Dye testing occurring.



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# Memo

**Date:** June 24, 2021  
**To:** Kristi Kreklow-SEWPBPD  
Kathryn McNelly Bell-Kapur  
**Cc:**  
**From:** Jeremy Schwartz - Kapur  
**RE:** American Family Field-Storm Pond Inspection

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## *Background Information*

The DNR had noted water flowing around the outside of the storm pond outfall pipe. Kapur committed to inspecting the outfall and use dye to identify the source of water flowing around the outfall pipe.

The storm water pond outfall pipe is likely backfilled with stone or gravel, which creates a flow path for water. The likely sources of water flowing around the outfall pipe are ground water or a leak in the storm water pond. High ground water was noted during the construction of parking lots at the park.

## *Inspection*

Kapur inspected the storm pond outfall on June 3, 2021 and June 17, 2021. During both inspections there was no flow coming out of the pipe or around the pipe.

## *Conclusions*

Based upon site inspections, the flow around the outside of the outlet pipe does not occur when the pond is at its normal water level and during dry periods. This indicates that if the observed flow is a leak, the leak is at an elevation above the normal water elevation. The fact that no water flows around the outfall pipe during dry periods supports the potential of ground water following the stone/gravel around the outlet pipe.

Dye testing can be utilized to identify the source of water flowing out of the stone/gravel around the outlet pipe; however, the dye testing must be performed when water is flowing around the outside of the outlet pipe.



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# Memo

**Date:** June 30, 2021  
**To:** Kristi Kreklow-SEWPBPD  
**Cc:** Kathryn McNelly Bell-Kapur  
**From:** Jeremy Schwartz - Kapur  
**RE:** American Family Field-Storm Pond Inspection

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## *Background Information*

The DNR had noted water flowing around the outside of the storm pond outfall pipe. Kapur committed to inspecting the outfall and use dye to identify the source of water flowing around the outfall pipe.

The storm water pond outfall pipe is likely backfilled with stone or gravel, which creates a flow path for water. The likely sources of water flowing around the outfall pipe are ground water or a leak in the storm water pond. High ground water was noted during the construction of parking lots at the park.

## *Inspection*

Kapur inspected the storm pond outfall on June 3, 17, and 30. During the inspections on June 3 and 17, there was no flow coming out of the pipe or around the pipe. There was flow out of the outfall during the June 30 inspection. Dye was added inside the endwall to identify the source of water entering the river. Video of the dye testing can be provided by Kapur upon request.

## *Conclusions*

Based upon site inspections, the flow around the outside of the outlet pipe does not occur when the pond is at its normal water level or during dry periods. This indicates that if the observed flow is a leak, the leak is at an elevation above the normal water elevation. The fact that no water flows around the outfall pipe during dry periods supports the potential of ground water following the stone/gravel around the outlet pipe.

The dye testing indicated that all the water entering the river is from the outfall. At the endwall, a small portion of the storm water flows underneath the rip rap, which picks up fines resulting in turbidity, and then discharges to the river slightly south of the edge of endwall.



# Quarterly Pond Inspection

WPDES Permit No. WI-S049921-4

**Date:** September 24, 2021  
**Time:** 9:00 a.m. to 10:00 a.m.

**Inspector(s):** Gregory DuBois  
**Weather:** 65°F, Sunny

## Visual Observations:

- **Pond Banks:** Banks are vegetated. There is woody vegetation growing on the northwest side near the outfall – vehicles should be able to maneuver around it if needed.
- **Pond Outfall:** Water is flowing out of the pond through the outfall. Water level is approximately 8 inches below the orifice. There was no debris observed around or within the outfall. Last rainfall event was September 21, 2021 (0.23” per weather.com).
- **Pond Inlet:** Both inlets were clear of debris and water was present in both inlets. Riprap intact. No flow at contributing North Access Road/River East storm sewer system.
- **Pond Discharge (Menomonee River):** Water within the Menomonee River is similar in clarity to the water flowing from the discharge. The river level is low right now due to drought.
- **Pollutants to Pond (hi-lite)?:** Discoloration Odor Sheen Algae Litter
- **Maintenance Recommendations:** Pick up litter as needed. Park operations continues to maintain this area – prior inspection event litter has been cleaned up.



# Quarterly Pond Inspection

WPDES Permit No. WI-S049921-4

**Date:** December 6, 2021

**Time:** 2:30 p.m. to 3:30 p.m.

**Inspector(s):** Gregory DuBois

**Weather:** 28°F, Partly Cloudy

## Visual Observations:

- **Pond Banks:** Banks are vegetated. There is woody vegetation growing on the northwest side near the outfall – vehicular access possible.
- **Pond Outfall:** Minimal flow out of the pond through the outfall. Water levels are approximately 8-9 inches below the orifice. There was no debris observed around or within the outfall. Last rainfall event was December 5, 2021 (0.24" per weather.com).
- **Pond Inlet:** Both inlets were clear of debris and water was present in both inlets. Riprap intact.
- **Pond Discharge (Menomonee River):** Water within the Menomonee River is similar in clarity to the water flowing from the discharge. The river level is low.
- **Pollutants to Pond (hi-lite)?:** Discoloration Odor Sheen Algae **Litter**
- **Maintenance Recommendations:** Clear vegetation near northwest side of the outfall as needed for vehicle access. Pick up litter as needed. Litter clean-up is ongoing by Park operations – noticed prior litter has been cleaned up.





# Quarterly Pond Inspection

WPDES Permit No. WI-S049921-04 (effective 9/1/2021)

**Date:** March 16, 2022  
**Time:** 9:00 AM- 9:40 AM

**Inspector(s):** Megan Ruemler &  
Kevin Patterson  
**Weather:** 42°F, Partly Sunny

## Visual Observations:

- **Pond Banks:** Banks are densely vegetated (noted no prohibited invasive species). Woody vegetation (sandbar willow shrubs, 1" diameter) growing on the northwest side near the outfall – it may obstruct vehicle access if needed.
- **Pond Outfall:** There was no observed flow out of the pond through the outfall, but flow was observed in the outfall from another source other than the pond. Water levels are approximately 12-13 inches below the orifice opening. There was minimal natural debris observed around or within the outfall. Last rainfall event was March 13, 2021 (0.05" per weather.com). Minimal ice and snow was present.
- **Pond Inlet:** The southeast inlet is partly submerged from increased hydrology from recent snow melt and rain events. The second stormwater inlet was observed due to the low water levels of the pond.
- **Pond Discharge (Menomonee River):** Water levels in the pond were 12-13 inches below the pond orifice. No discharge to the River observed. The River level is low due to ongoing drought conditions.
- **Pollutants to Pond (hi-lite)?:** Discoloration Odor Sheen Algae Litter
- **Maintenance Recommendations:** Sediment survey proposed for summer, 2022. Continued litter clean-up.

# Quarterly Pond Inspection

WPDES Permit No. WI-S049921-04 (effective 9/1/2021)

**Date:** June 28<sup>th</sup>, 2022

**Time:** 10:30 A.M. - 11:00 A.M.

**Inspector(s):** Kathryn McNelly-Bell  
& Megan Ruemler

**Weather:** 77°F, Sunny

## Visual Observations:

- **Pond Banks:** Banks are densely vegetated (noted no prohibited invasive species). Woody vegetation (sandbar willow shrubs, 1" diameter) growing on the northwest side near the outfall and on the southwest side – these may obstruct vehicle access if needed. Did not observe soil sedimentation from the pond banks.
- **Pond Outfall:** Minimal flow out of the pond through the outfall. Water levels are approximately 8 inches below the orifice. There was no debris observed around or within the outfall. Last rainfall event was June 25<sup>th</sup>, 2022 (0.22" per weather.com).
- **Pond Inlet:** Both inlets were clear of debris and water was present in both inlets.
- **Pond Discharge (Menomonee River):** Water within the Menomonee River is similar in clarity to the water flowing from the discharge (which is minimal, flow cannot be measured as water discharge level is less than 0.10" at conduit discharge. 1.25" of flow is necessary to measure with equipment). The River level is low due to ongoing drought conditions.
- **Pollutants to Pond (hi-lite)?:** **Discoloration** Odor Sheen Algae **Litter**
- **Maintenance Recommendations:** Clear vegetation near northwest side of the outfall as well as mow path to pond outfall as needed for vehicle access. We found increase in Canadian thistle (invasive, but not on the NR 40 prohibited category list) along the west banks. To help prevent spread of invasive species, DNR has Invasive Species Guidance, recommended time for mowing May to late June and/or chemical control by licensed professional – more details can be found here: [Control methods](#) | [Wisconsin DNR](#)  
Some litter noted between pond banks and Selig Drive (update note: this was cleaned up right away, we noted banks were clean during 8/18/2022 inspection). April 2022 was last bank mow.

## Quarterly Pond Inspection Form

WPDES Permit No. WI-S049921-04 (effective 9/1/2021)

Inspection form effective date: August 1, 2022

**Date:** August 18, 2022

**Time:** 3:15 P.M.

**Weather:** 80°F, Partly Cloudy

**Inspector(s) Name(s):**

Kathryn McNelly Bell & Megan Ruemler

**Inspector(s) Titles:**

Natural Resources Staff

**Inspector(s) Phone Number(s):**

414-795-4305

### Visual Observations

- **Pond Banks:** Banks are densely vegetated (noted no prohibited invasive species). Woody vegetation growing on northwest side near the outfall – consider cutting back for access. No sedimentation from pond banks observed.
  - **Date of most recent mowing/trimming along pond banks (if available from SEWPBPD):** April 2022.
- **Pond Outfall:** Water level in pond is 12” below the outfall orifice. No debris observed around or within the orifice. Last rainfall event was August 13<sup>th</sup>, 2022 (0.02” per weather.com).
- **Pond Inlets:** Inlets clear of debris. Water present in both inlets.
- **Pond Discharge (Menomonee River):** Water from outfall is a trickle. Past engineering analysis concluded this is a result of groundwater. Water is clear.
- **Pollutants to Pond (hi-lite)?:** **Discoloration** Odor Sheen Algae Litter  
Water in pond appears cloudy.

### Other

- **Date of most recent sediment depth (survey) analysis:** 7/1/2022
- **Maintenance recommendations (and note any actions taken from prior inspection(s) maintenance recommendations):** Clear vegetation near northwest side of the outfall as well as mow path to pond outfall as needed for vehicle access. We found increase in Canadian thistle (invasive, but not on the NR 40 prohibited category list) along the west banks. To help prevent spread of invasive species, DNR has Invasive Species Guidance, recommended time for mowing May to late June and/or chemical control by licensed professional – more details can be found here: [Control methods](#) | [Wisconsin DNR](#)

## Quarterly Pond Inspection Form

WPDES Permit No. WI-S049921-04 (effective 9/1/2021)

Inspection form effective date: August 1, 2022

**Date:** November 23, 2022

**Inspector(s) Name(s):**

Kathryn McNelly Bell

**Time:** 12:30 P.M.

**Inspector(s) Titles:**

Natural Resources Staff

**Weather:** 55°F, Mostly Sunny

**Inspector(s) Phone Number(s):**

414-795-4305

### Visual Observations

- **Pond Banks:** Adequate herbaceous vegetation growth (mostly grasses and forbs noted). Found no NR40 Prohibited species. West bank contains some Canadian thistle, per DNR BMP this should only be mowed between May – June to help prevent it from spreading. Some woody vegetation along the northwest side of the pond (willows, Siberian elm, buckthorn) is recommended for removal before it grows too large. Any vegetation cut back should then be bundled and removed from the Park property. Use of chemical treatment is not recommended, except for treatment of any buckthorn (spot application per manufacturer’s directions by a landscape professional). The upper backslope to the crest along the south side of the pond (along Selig Drive) has been recently mowed.
  - **Date of most recent mowing/trimming along pond banks (if available from SEWPBPD):** September 16, 2022.
- **Pond Outfall:** Water/ice level in pond is approximately 12” below the outfall orifice. No debris observed around or within the orifice. Last rainfall event was November 19<sup>th</sup>, 2022 (0.02” per weather.com).
- **Pond Inlets:** Inlets clear of debris. Both inlets partially submerged with water/ice.
- **Pond Discharge (Menomonee River):** Very minimal flow noted between riprap – no flow noted within the outfall; flow is likely groundwater and flow is clear.
- **Pollutants to Pond (hi-lite)?:** **Discoloration** Odor Sheen Algae **Litter**  
Water surface of pond is covered in layer of ice.  
Litter is mostly contained along the south bank along Selig Drive.



## Other

- **Date of most recent sediment depth (survey) analysis:** 7/1/2022
- **Maintenance recommendations (and note any actions taken from prior inspection(s) maintenance recommendations):**  
Clean litter around the pond banks – majority of litter was found along south side of pond near Selig Drive. Clean-up occurred since prior inspection by Park staff.

Vegetation on the south the crest/backslope of the pond has been mowed (along Selig Drive). Mow/brush-hog vegetation on northwest side by the pond outfall for easier access to the pond outfall is recommended. Vegetation can mostly be driven over but clearing at this time is recommended before woody vegetation grows larger. Canadian thistle population remains the same from prior inspection along the west bank. Teasel was also found near the Hank Aaron State Trail on the way to the pond discharge point to the Menomonee River. To help prevent spread of invasive species, DNR has Invasive Species Guidance, recommended time for mowing both Teasel and Canadian thistle is May to late June and/or chemical control by licensed professional – more details can be found here: [Control methods | Wisconsin DNR](#). Vegetation mowed/removed should be bundled and removed from the Park property rather than being left on the pond banks.

Not a WPDES action item - Lastly, beaver damage, a naturally occurring condition, was noted along the east bank of the Menomonee River in proximity to the pond discharge point. The beaver have impacted woody vegetation along the Menomonee River. Wisconsin DNR Nuisance Management information for beavers can be found here: [Nuisance, Urban And Damaging Wildlife | Wisconsin DNR](#)

PROJECT:  
2022 WPDES  
PERMIT  
COMPLIANCE

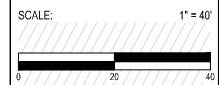
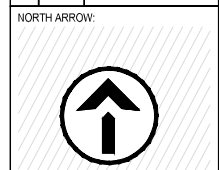
LOCATION:  
MILLER PARK

CLIENT:  
SOUTHWEST  
WISCONSIN  
PROFESSIONAL  
BASEBALL PARK  
DISTRICT

RELEASE:  
DNR SUBMITTAL

REVISIONS:

#	DATE	DESCRIPTION
1	8/3/22	SUBMITTAL



SEAL:

**all in**

SHEET:  
POND ELEVATIONS

PROJECT MANAGER: JH  
PROJECT NUMBER: 22.0290.01  
DESIGNED BY: JH  
DRAWN BY:  
CHECKED BY: JH  
DATE: 8/3/22

SHEET NUMBER:  
**1**



Person Conducting Inspection:	Jason Herther, RLS	Date: 6/4/2014	Date: 7/15/22	Date: 7/15/22
	North Basin (Pond)	South Basin (Forebay)	North Basin (Pond)	South Basin (Forebay)
Water Elevation	589.8	589.8	589.8	589.8
Average Sediment Elevation	584.6	585.5	585.86	586.77
Pond Depth	5.3	4.5	3.94	3.03
As-Built/Plan Elevation	585	585	585	585
Sediment Buildup (ft)	-0.4	0.5	0.86	1.77
Sediment Buildup (CY)	N/A	117.00	504.44	413.00

Reviewed By: Jeremy Schwartz, PE

Checked By: Kathryn McNelly-Bell