FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

UPS Tracking No. 1Z 651 395 03 9927 5988

October 21, 2025

Mr. Paul Mauer, Jr., P.E.
Division of Water Resource Management
Illinois Department of Natural Resources
One Natural Resources Way
Springfield, Illinois 62702-1271

Re: Spring Lake Estates, Rockford, IL
2025 Class II Dam Inspection Report

Dear Mr. Mauer:

Enclosed please find one (1) copy of the completed 2025 Class II Dam Inspection Report for the above-referenced location.

If you have any questions regarding the inspection or the contents of the report, please do not hesitate to contact me.

Respectfully submitted,

Derek R. Thompson, P.E.
Branch Manager

DRT:rin

Enclosure

cc: Mr. Josh Spencer, Spring Lake Estates, with attachments

\\powervault\Shared Client Data\Spring Lake Estates\25-1597 - Spring Lake Dam & Outlet Works Inspection\Report\25-1597 - Spring Lake Dam Inspection Report Cover Letter.docx

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

2025 Class II Dam Inspection Report

Project 25-1597

October 2025

101 West Stephenson
Freeport, Illinois 61032

Spring Lake Estates
P.O. Box 5701
Rockford, Illinois 61125

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Attachments

Section 1 Introduction

This report was prepared for Spring Lake Estates, Post Office Box 5701, Rockford, Illinois 61125 (Owner), for compliance with requirements of the Illinois Department of Natural Resources (IDNR), Division of Water Resources (Dam Safety Program). The examination consisted of completing visual observations of the dam structure, and outlet works.

Section 2 Observation and Evaluation

On September 12th, 2025 Fehr Graham completed the IDNR compliance inspection, with the Owner's maintenance lead accompanying the walkthrough. Overall, the earthen embankment, crest alignment, outlet works, and principal and emergency spillways are performing as intended with no active seepage observed.

Conditions were largely rated Good/No Evidence on the IDNR inspection form, with noted items of maintenance and observation being: minor erosion/sloughing and bare spots, scattered animal burrows, and significant woody growth on several privately owned segments of both the front and back embankment (See Attachment 3, Photos 3, 5, 7-8, 10, and 17). Minor cracking and spalling in the concrete outlet/valve structure was also observed (See Attachment 3, Photo 22) along with the backup outlet valve being inoperable (Attachment 3, photo 23) , and debris was present at the discharge gate and in the plunge pool (Attachment 3, photos 18 and 19).

Section 3 Recommendations

Based on the observation of the Spring Lake Dam and a review of the previous report, the following recommendations are made to assist the Owner in maintaining the dam and appurtenances, so they will continue to function as designed:

1. Continue to remove plant growth, which is not considered acceptable per the Division of Water Resources requirements, especially wood-stemmed plants, from the crest, front and back slopes, and groin of the dam.

2. Notify property owners of negligent clearing that is not conforming to recommendation 1 above.

3. Continue regular mowing of the crest of the dam to aid in routine visual inspections.

4. Continue to monitor for animal burrow holes and fill any noticed holes with concrete slurry.

5. Monitor for any observed sloughing of the backslope.

6. Continue to remove any debris from outlet pipe grate.

7. Continue to remove any vegetative, animal, or other debris from outlet structure.

8. Consider patching areas of spalling concrete in outlet structure, or continue to monitor to ensure condition does not worsen.

9. Clean-up debris from plunge pool.

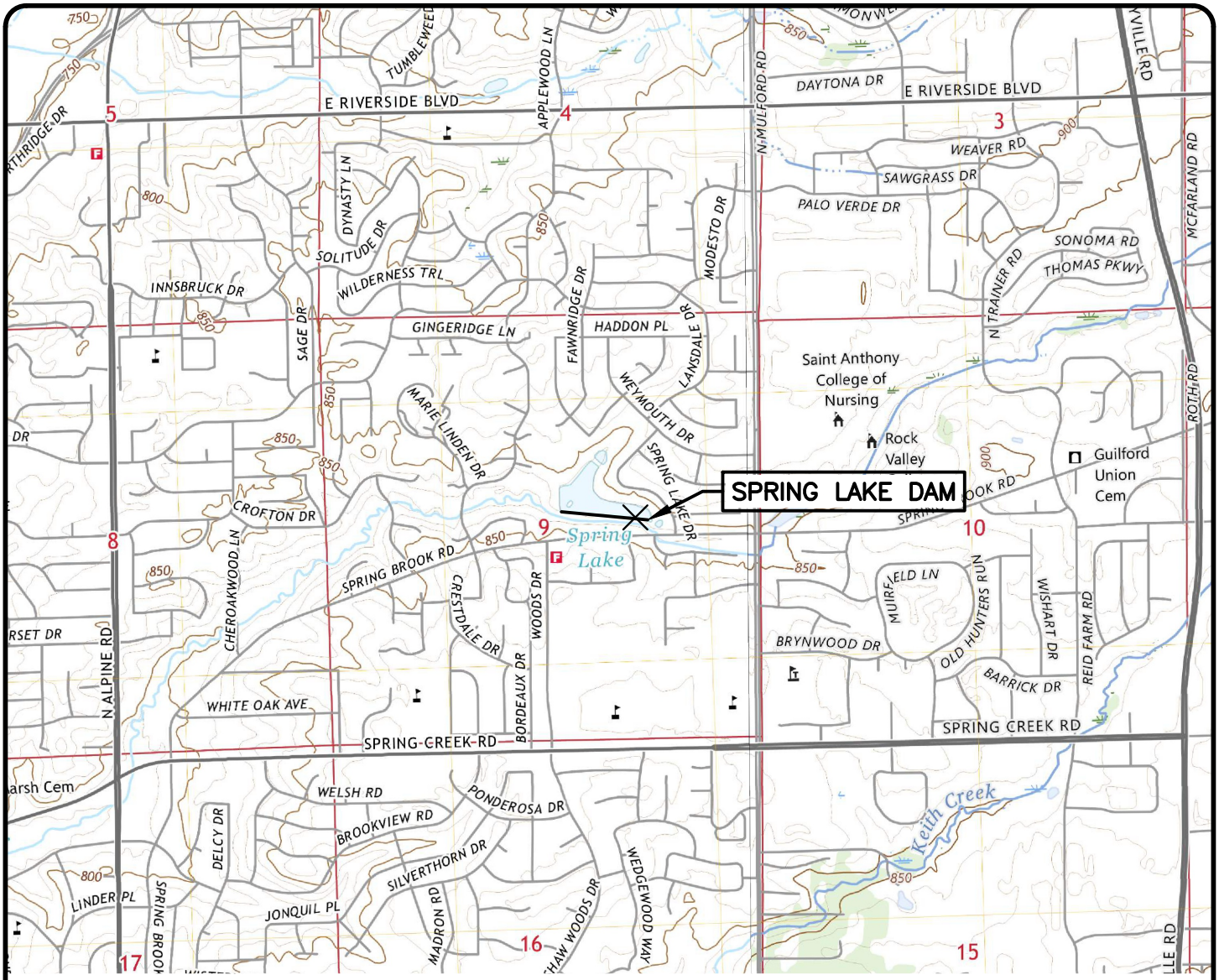
10. Repair or replace existing backup valve that is inoperable.

ATTACHMENTS

ATTACHMENT 1

7-1/2 Minute Series USGS Quadrangle

(Site Location Map)



COUNTY: WINNEBAGO
TOWNSHIP: 44N
RANGE: 2E
SECTION: 9

2025 CLASS II
DAM INSPECTION REPORT
SPRING LAKE ESTATES
ROCKFORD, IL 61125

N
W E
S

2000 0 2000
GRAPHIC SCALE IN FEET

9/30/25

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

PLOT DATE: 9/30/25
G:\C3D\25\251597\Exhibits\251597_Site.dwg, Dam Location

ATTACHMENT 2

Dam Inspection Report Form

Dam Inspection Report

Name of Dam: Spring Lake Dam Dam ID No.: IL 00545

Location: NE 1/4 Section: 9 Township: 44N Range: 2E

Owner: Spring Lake Estates (Name) (815) 218-1662 (Telephone No. (Day & Night Nos.))

3300 Spring Lake Dr. (Street) County: Winnebago

Rockford (City) 61125 (Zip)

Permit No.: 17607 Class of Dam: II

Type of Dam: Earthen

Type of Spillway: Earth

Date(s) Inspected: 9/12/2025

Weather When Inspected: Clear

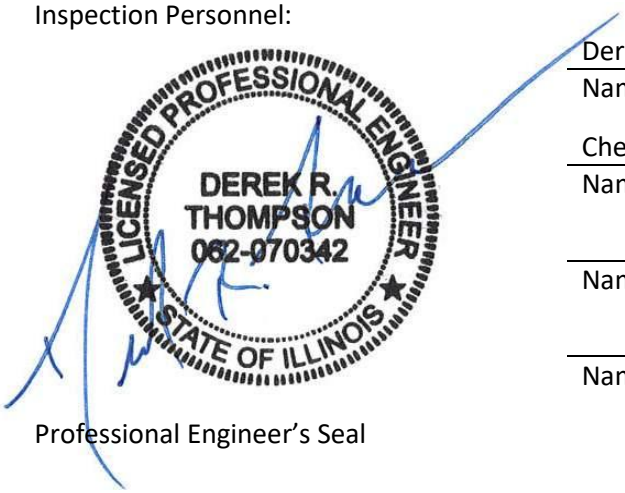
Temperature When Inspected: 76° F

Pool Elevation When Inspected: Est: 839.00'

Tailwater Elevation When Inspected: Est: 828.00'

Inspection Personnel:

Name	Title
Derek R. Thompson, P.E.	Project Engineer
Cheyanne Hoffman	Engineer



Professional Engineer's Seal

CONDITION CODES

N.E.	-	No evidence of problem.
G.C.	-	Good condition.
M.M.	-	Item needing minor repairs within the year. Safety integrity not yet imperiled.
I.M.	-	Item needing immediate maintenance to restore or ensure present safety integrity.
E.C.	-	Emergency condition which if not immediately repaired or other appropriate measures taken could lead to breach of dam.
O.B.	-	Condition requires regular observation to ensure condition does not become worse.
N.A.	-	Not applicable to this dam.
N.I.	-	Not inspected/list reason for non-inspection under deficiencies.

EARTH EMBANKMENT

ITEM	CONDITION	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Surface Cracks	N.E. G.C.		
Vertical and Horizontal Alignment of Crest	G.C.		
Unusual Movement or Cracking at or Beyond Toe	N.E.		
Sloughing or Erosion of Embankment and Abutment Slopes	O.B.	Some small areas of erosion and sloughing do not appear to have worsened since the last inspection.	Continue to monitor to ensure the condition does not worsen. If sloughing or erosion worsens, the slope should be stabilized.
Upstream Face Slope Protection	G.C.		
Seepage	N.E.		
Filter and Filter Drains	N.A.		

EARTH EMBANKMENT
(Continued)

ITEM	CONDITION	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Animal Damage	O.B.	Some animal burrow holes observed throughout the dam.	Continued regular observation for animal burrow holes, and if any are found, they are to be filled with concrete slurry.
Embankment Drainage Ditches	G.C.		
Vegetative Cover	G.C./O.B.	Some small areas of bare ground without grass/vegetative cover	Continue regular mowing and monitor bare spots. If areas are not vegetated by spring, bare areas should be seeded.
Woody Growth	G.C. O.B.	Most areas did not have concerning growth, but multiple properties had large woody growth in the foot and slopes of the dam.	Concerning woody growth noted on the front and back slopes of the dam on multiple properties. Woody growth should be removed to maintain slope stability.
Other			
Other			

CONCRETE OR MASONARY DAMS

*** Silt Pond Structure**

ITEM	CONDITION	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Seepage	N/A		
Structure to Abutment/Embankment Junctions	N/A		
Water Passages	N/A		
Foundation	N/A		
Surface Cracks in Concrete Surfaces	N/A		
Structural Cracking	N/A		

CONCRETE OR MASONARY DAMS
(Continued)

ITEM	CONDITION	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Vertical and Horizontal Alignment	N/A		
Monolith Joints	N/A		
Construction Joints	N/A		
Spalling of Concrete	N/A		
Filters, Drains, etc.	N/A		
Riprap	N/A		

IF DAM IS GATED - Fill out portion of Principal Spillway Form Related to Gated Spillways

PRINCIPAL SPILLWAY
APPROACH CHANNEL

ITEM	CONDITION	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Debris	G.C.		Continued observation to ensure garbage and vegetation does not block channel.
Side Slope Stability	N.E. G.C.		
Slope Protection	N.E. G.C.		
Other (Name)			
Other			
Other			
Other			

PRINCIPAL SPILLWAY

☒ Drop Inlet Structure ☐ Overflow Spillway Structure ☐ Gated

ITEM	CONDITION	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Erosion, Spalling, Cavitation	O.B.	Minor concrete spalling of principal spillway.	Regular inspections should be performed to ensure spalling does not worsen.
Structure to Embankment Junction	N/A		
Drains	G.C.		
Seepage Around or Into Structure	N.E.		
Surface Cracks	O.B.	Small stress cracks noted on the interior sides of principal spillway structure.	Regular observation to verify cracks do not worsen.
Structural Cracks	O.B.	Minor cracking associated with spalling identified on structure.	Regular inspection to monitor cracking shall be continued.

IF SPILLWAY IS GATED - Fill out Gates Section

PRINCIPAL SPILLWAY
(Continued)

☒ Drop Inlet Structure ☐ Overflow Spillway Structure ☐ Gated

ITEM	CONDITION	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Alignment of Abutment Walls	N.E. G.C.		
Construction Joints	N.E. G.C.		
Filter and Filter Drains	N.A.		
Trash Racks	O.B.	Minor plant growth and animal waste around spillway opening.	Regular observation and debris and vegetation to be regularly removed.
Bridge and Piers	N.A.		
Differential Settlement	N.E.		
Other (Name)			

IF SPILLWAY IS GATED - Fill out Gates Section

GATES (SECONDARY PIPES TO PRINCIPAL SPILLWAY)

☐ Principal Spillway ☒ Dewatering ☐ Other:

ITEM	CONDITION	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Gate Sill	N.I.		
Gate Seals	N.I.		Gate was not accessible at time of inspection.
Gate and Frame	M.M.	Gate Valve is inoperable	Gate Valve should be replaced or repaired to be in working condition.
Operating Machinery	N.I.		Valve was not in working condition at time of inspection.
Emergency Operating Machinery	N.A.		
Other (Name)			
Other			

ENERGY DISSIPATOR (OUTLET POOL)

☒ Principal Spillway ☒ Outlet Works Type: Concrete Wing Walls and Pool

ITEM	CONDITION	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Erosion, Spalling, Cavitation	N.E.		
Structure to Embankment Junction	G.C.		
Construction Joints	N.A.		
Surface Cracks	N.A.		
Structural Cracks	N.E.		
Differential Settlement	N.A.		
Expansion and Contraction Joints	N.E.		

ENERGY DISSIPATOR (OUTLET POOL)
(Continued)

☐ Principal Spillway ☒ Outlet Works Type:

ITEM	CONDITION	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Riprap	N.E.	Concrete base at outlet instead of just Riprap	
Outlet Channel	G.C.		
Debris	G.C. O.B.	Construction debris noted in the outlet pool.	Continued observation to ensure any fallen trees, branches, or debris does not back-up outlet pool.
Other (Name)			

EMERGENCY SPILLWAY

☒ Earth ☐ Other: Name Spring Lake Estates

ITEM	CONDITION	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Erosion	N.E. G.C.		
Weeds, Logs, Other Obstructions	N.E.		
Side Slope Sloughing	N.E.		
Vegetation	G.C.		Continued regular mowing.
Sedimentation	N.E.		
Riprap	N.E.		
Settlement of Crest	N.E.		
Downstream Channel	O.B.	Slight erosion noted in overland discharge to channel	Continue to monitor after large storm events to ensure erosion does not worsen.
Other (Name)			

SUMMARY OF MAINTENANCE DONE AND/OR

REPAIRS MADE SINCE LAST INSPECTION

DATE OF PRESENT INSPECTION 09/12/2025

DATE OF LAST INSPECTION 10/17/2023

1. EARTH EMBANKMENT

   Continued regular mowing and prevention of tree and woody growth formation, and monitored for animal burrow holes. Outfall structure routinely cleaned of vegetative and animal debris, and outlet pipe grate cleared of any debris.

2. CONCRETE MASONRY DAMS

   None.

3. PRINCIPAL SPILLWAY

   None.

4. OUTLET WORKS

   Regular operation.

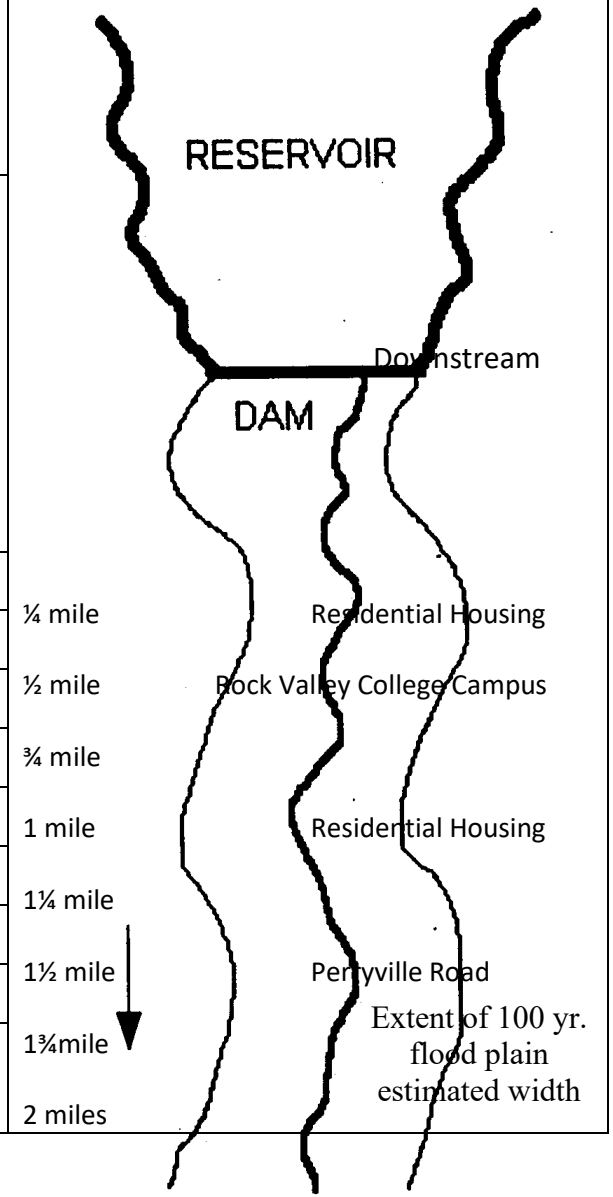
5. EMERGENCY SPILLWAY

   Continued regular mowing and installation of landscape rocks at discharge.

DOWNSTREAM DEVELOPMENT

APPROXIMATE WIDTH OF AFFECTED FLOOD PLAIN .1 MILES

MILES DOWNSTREAM FROM DAM	Downstream Development													Loss of Life Potential			Economic Loss Potential		
	OCCUPIED HOMES	UNOCCUPIED HOMES	AGRICULTURAL BUILDINGS	INDUSTRIAL BUILDINGS	COMMERCIAL BUILDINGS	SCHOOLS	HOSPITALS	ROADS & BRIDGES	RAILROADS & R.R. BRIDGES	DAMS	OVERHEAD UTILITIES	OTHER DEVELOPMENT (Name)	OTHER DEVELOPMENT (Name)	NONE	1 TO 10	OVER 10	MINIMAL EXPECTED	APPRECIABLE EXPECTED	EXCESSIVE EXPECTED
0 to 1/4	☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☒	☐	☐	☐	☒	☐	☐	☒	☐
1/4 to 1/2	☒	☐	☐	☐	☐	☒	☐	☒	☐	☐	☒	☐	☐	☐	☒	☐	☐	☒	☐
1/2 to 3/4	☒	☐	☐	☐	☐	☒	☐	☒	☐	☐	☒	☐	☐	☒	☐	☐	☒	☐	☐
3/4 to 1	☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☒	☐	☐	☒	☐	☐	☒	☐	☐
1 to 1 1/4	☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☒	☐	☐	☒	☐	☐	☒	☐	☐
1 1/4 to 1 1/2	☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☒	☐	☐	☒	☐	☐	☒	☐	☐
1 1/2 to 1 3/4	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
1 3/4 to 2	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2 to --	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐



Owner's Maintenance Statement

I, Joshua Spencer, owner of Spring Lake Estates Dam

Dam Identification Number IL 00545, in Winnebago County,

am maintaining the dam in accordance with the accepted maintenance plan which is part of

Permit Number 17607 .

Joshua Spencer

Signature

10/16/2025

Date

Owner's Operation and Maintenance Plan Statement

I, Joshua Spencer, owner of Spring Lake Estates Dam, Dam Identification Number IL 00545 , in Winnebago County, have reviewed the operation and maintenance plan including the Emergency Action Plan (EAP),

which is part of, Permit Number 17607.

I ( ) have enclosed the appropriate revisions or

(X) have determined that no revisions to the plan are necessary.

Joshua Spencer

Signature

10/16/2025

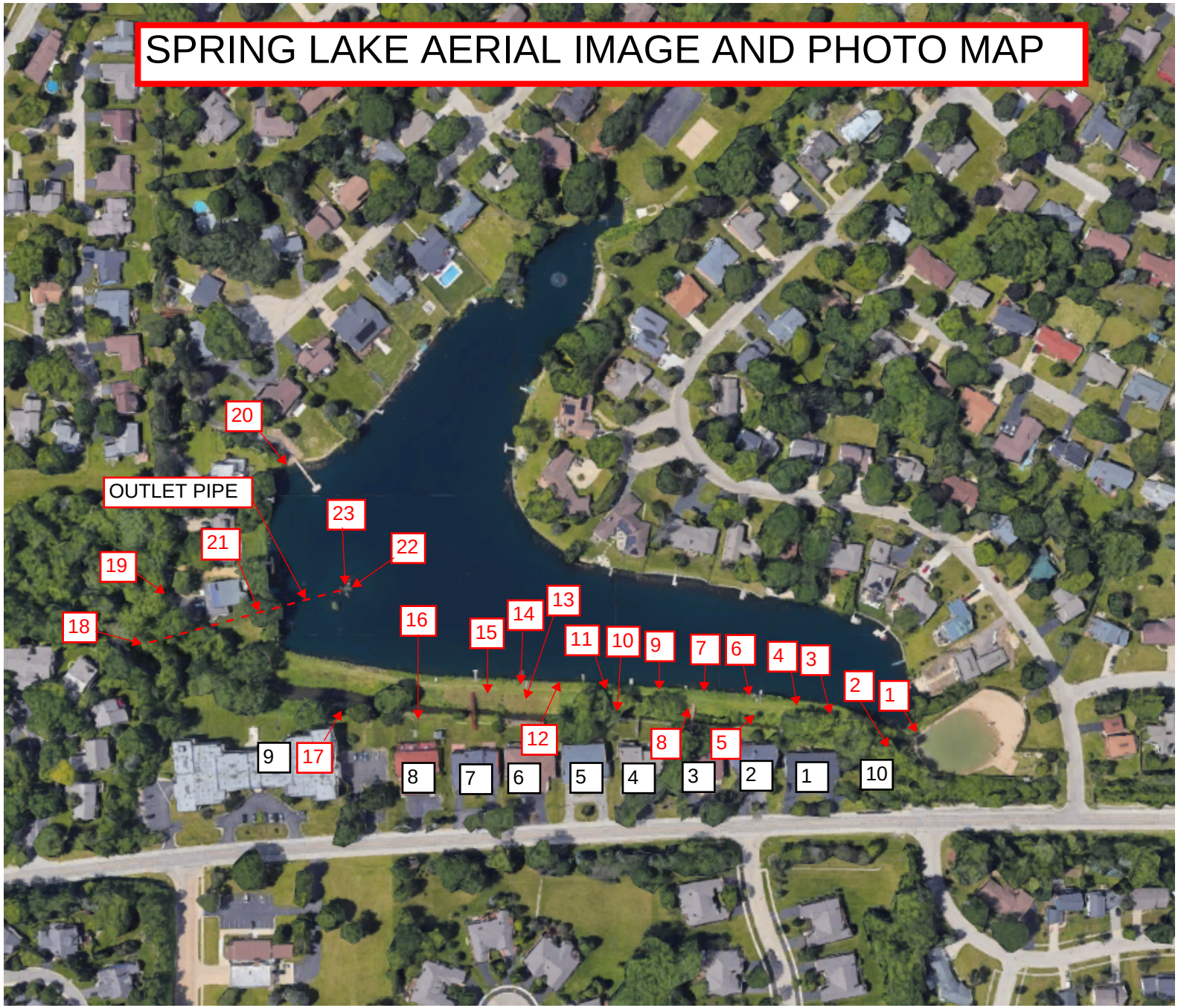
Date

The Department of Natural Resources is requesting information that is necessary to accomplish the statutory purpose as outlined under the River, Lakes and Streams Act, 615 ILCS 5. Submittal of this information is REQUIRED. Failure to provide the required information could result in the initiation of non-compliance procedures as outlined in Section 3702.160 of the "Rules for Construction and Maintenance of Dams."

ATTACHMENT 3

Inspection Photos

SPRING LAKE AERIAL IMAGE AND PHOTO MAP



INDICATES PHOTO LOCATION AND NUMBER

INDICATES LOT NUMBER

1. **LOCATION:** Swimming/Beach Area

   DESCRIPTION OF DEFICIENCY: A Small area of vegetation has been eroded away near the drainage spillway, causing exposed soil.

   RECOMMENDED CORRECTION MEASURE: Remove all deposited silt from the eroded area, and re-spread topsoil and seeding. Stabilize with an erosion control blanket.

2. **LOCATION:** Lot 10, near the tree line

   DESCRIPTION OF DEFICIENCY: Area of bare earth in the crest of the dam.

   RECOMMENDED CORRECTION MEASURE: The Area should be monitored to ensure the problem does not spread to the slopes of the dam. If in spring, adjacent vegetation spreads to stabilize this area, no corrective action is needed. If vegetation does not spread in the spring, the area is to be seeded.

3. **LOCATION:** Lot 1, near the front slope of the dam.

   DESCRIPTION OF DEFICIENCY: An Animal burrow hole was found in the dam.

   RECOMMENDED CORRECTION MEASURE: The Dam should be continuously monitored for animal burrow holes, and if any are encountered, they should be filled with concrete slurry.

4. **LOCATION:** Lot 1, front slope of the dam.

   DESCRIPTION OF DEFICIENCY: Patchy areas of unhealthy grass and slope loss.

   RECOMMENDED CORRECTION MEASURE: Continue observation, and if slope loss gets worse, stabilize with filter fabric and riprap.

5. **LOCATION:** Lot 2 backslope

DESCRIPTION OF DEFICIENCY: Several cases of large woody growth on/in the slope.

RECOMMENDED CORRECTION MEASURE: Woody growth should be cut within 3” of the ground to maintain dam alignment and stabilization.

6. **LOCATION:** Lot 2, next to the water on the front slope.

DESCRIPTION OF DEFICIENCY: Riprap appears to be in good condition but has become overgrown with vegetation.

RECOMMENDED CORRECTION MEASURE: Cut/trim vegetation growing within riprap and apply herbicide in accordance with accepted horticultural standards.

7. **LOCATION:** Lot 3, front slope of dam.

   DESCRIPTION OF DEFICIENCY: Large amount of woody growth and overgrown vegetation.

   RECOMMENDED CORRECTION MEASURE: All weeds and woody growth must be removed flush with grade, and herbicide is to be applied in accordance with accepted horticultural practices.

8. **LOCATION:** Lot 3, backslope near west property line.

   DESCRIPTION OF DEFICIENCY: Large amount of overgrown vegetation.

   RECOMMENDED CORRECTION MEASURE: All weeds and woody growth must be removed flush with grade, and herbicide is to be applied in accordance with accepted horticultural practices.

9. **LOCATION:** Lot 4, front slope of the dam

DESCRIPTION OF DEFICIENCY: Riprap installed prior to inspection is mostly holding up well, but appears to be starting to erode on the east edge.

RECOMMENDED CORRECTION MEASURE: Continue to monitor to ensure erosion does not continue. If erosion continues, excavate the eroded area to a depth of 16”, place filter fabric, and backfill with Riprap.

10. **LOCATION:** Lot 4, near the west property line on the backslope.

DESCRIPTION OF DEFICIENCY: Large woody growth in the backslope of the dam.

RECOMMENDED CORRECTION MEASURE: Woody growth should be removed to maintain slope stabilization and alignment.

11. **LOCATION:** Lot 5, near East Property Line

    DESCRIPTION OF DEFICIENCY: Area of bare earth.

    RECOMMENDED CORRECTION MEASURE: Area to be seeded and the entire disturbed area to be stabilized with an erosion control blanket.

12. **LOCATION:** Shared property line of Lot 5 and Lot 6 on the front slope of the dam.

    DESCRIPTION OF DEFICIENCY: Riprap is in good condition, but is starting to get overgrown with vegetation.

    RECOMMENDED CORRECTION MEASURE: Cut/trim vegetation growing within riprap and apply herbicide in accordance with accepted horticultural standards.

13. **LOCATION:** Lot 6, Dam backslope

DESCRIPTION OF DEFICIENCY: Areas of bare earth on the dam slope from boats being stored.

RECOMMENDED CORRECTION MEASURE: Remove boats and continue to monitor. If vegetation does not extend by spring and there are still areas of bare earth, apply lawn seed and stabilize the disturbed area with an erosion control blanket.

14. **LOCATION:** Lot 6, Dam front slope

DESCRIPTION OF DEFICIENCY: Areas of bare earth on the dam slope from boats being stored on the grass.

RECOMMENDED CORRECTION MEASURE:
Remove boats and continue to monitor. If vegetation does not extend by spring and there are still areas of bare earth, apply lawn seed and stabilize the disturbed area with an erosion control blanket.

15. **LOCATION:** Lot 7, at the crest of dam

DESCRIPTION OF DEFICIENCY: No Deficiencies noted during inspection.

RECOMMENDED CORRECTION MEASURE: Ensure the boat does not cause vegetation loss in the slope of the dam. The area should continue to be mowed and monitored for erosion and animal burrow holes.

16. **LOCATION:** Backslope of the dam in Lot 8

DESCRIPTION OF DEFICIENCY: N/A Vegetation overgrowth has been removed, and it appears that rock has been added since the last inspection, and sleep loss has not worsened.

RECOMMENDED CORRECTION MEASURE: The Area should continue to be monitored for erosion and slope loss.

17. **LOCATION:** Lot 9, South slope of Dam

DESCRIPTION OF DEFICIENCY: Large amounts of woody growth and overgrown vegetation on the backslope of the dam along the entire property line.

RECOMMENDED CORRECTION MEASURE: Woody growth should be cut within 3” of the ground, and herbicide should be used to treat woody growth in accordance with accepted horticultural practices.

18. **LOCATION:** Primary Outlet Pipe Discharge at Southwest Corner of 3203 Montlake Drive.

DESCRIPTION OF DEFICIENCY: Minor debris caught on the metal grate at the outlet pipe discharge point.

RECOMMENDED CORRECTION MEASURE: All vegetation and debris caught in the grate should be removed and disposed of off-site.

19. **LOCATION:** West of Driveway, 3203 Montlake Dr.

DESCRIPTION OF DEFICIENCY: The Earth behind the landscape rock has been eroded due to overland storm discharge.

RECOMMENDED CORRECTION MEASURE: Eroded area should be excavated to a depth of 16 inches, and filter fabric and Rip-Rap Gradation RR-4 or CA-1 should be installed.

20. **LOCATION:** Emergency Spillway Location near the fishing dock on Montlake Drive

DESCRIPTION OF DEFICIENCY: No deficiencies noted during inspection.

RECOMMENDED CORRECTION MEASURE: The Area should be continuously monitored, particularly after heavy rainfall, to ensure the area does not start to erode.

21. **LOCATION:** Inside principal spillway pipe looking upstream.

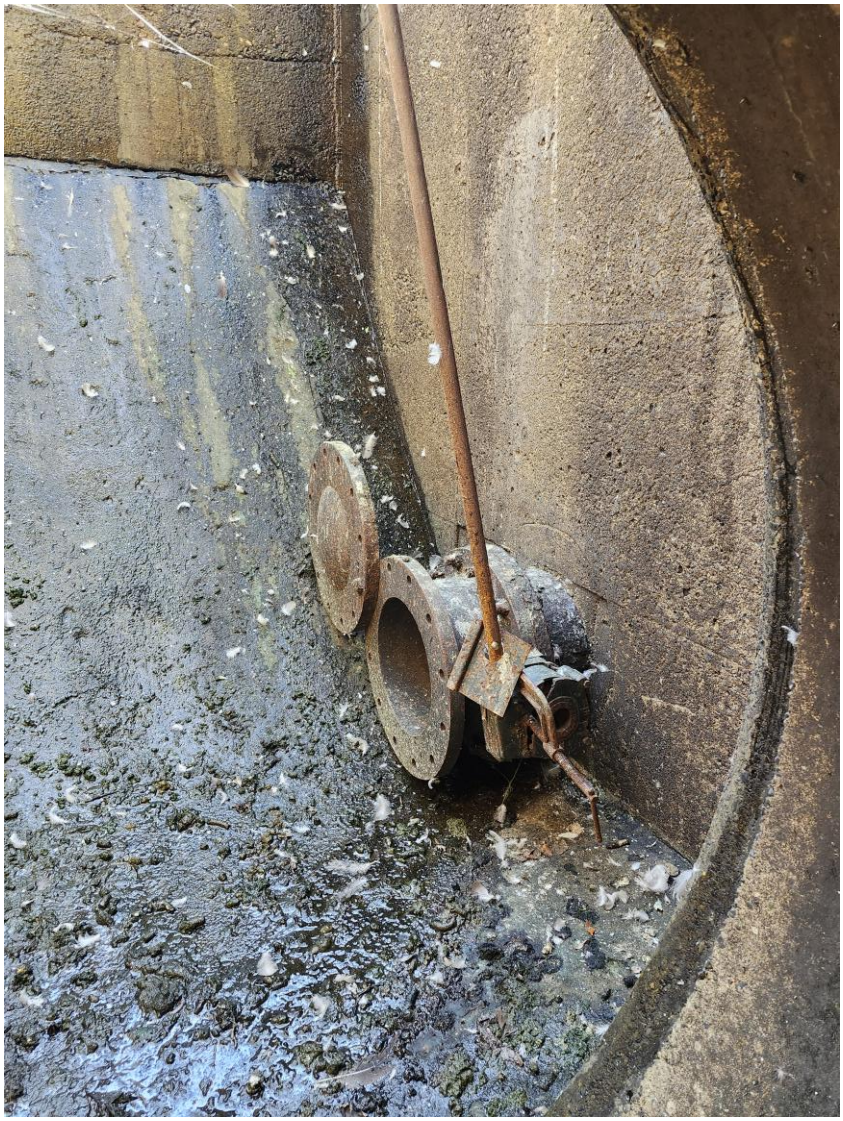
DESCRIPTION OF DEFICIENCY: Seepage noted in the bottom of the pipe at some joints.

RECOMMENDED CORRECTION MEASURE: Monitor to be sure the condition does not worsen and seepage and material loss do not occur at the top of the pipe.

22. **LOCATION:** Top of Principal Spillway and Valve Structure

DESCRIPTION OF DEFICIENCY: Cracking and spalling in concrete near the top of the structure.

RECOMMENDED CORRECTION MEASURE: Also, the structure should continue to be monitored for animal, vegetation, and trash buildup and removed when necessary.



23. **LOCATION:** Inside Principal Spillway and Valve Structure

DESCRIPTION OF DEFICIENCY: The Backup valve is broken and inoperable.

RECOMMENDED CORRECTION MEASURE: The Valve should be replaced or repaired to working condition.