To all interested parties:

This letter shall serve as a formal notice of the receipt of an application for Section 401 Water Quality Certification by the Indiana Department of Environmental Management (IDEM). The purpose of the notice is to inform the public of active applications submitted for water quality certification under Section 401 of the Clean Water Act (33 U.S.C. § 1341) and to solicit comments and information on any impacts to water quality related to the proposed project. IDEM will evaluate whether the project complies with Indiana’s water quality standards as set forth at 327 IAC 2.

1. Applicant: John Brooks
   LC Nature Park
   14505 White Loon Pass
   Roanoke, IN 46783

2. Agent: Jennifer Manning
   Three Rivers Wetland Consulting, LLC
   PO Box 10656
   Fort Wayne, IN 46853

3. Project location: The project site is located at 14505 White Loon Pass, Roanoke, IN 46783 at approximately 40.99329 latitude, -85.33514 longitude.

4. Affected waterbody: UNT to Little River

5. Project Description: The purpose of the project is to expand the bison and elk enclosure at LC Nature Park to include the restored prairie on the park’s west end. The project involves installing fence across an intermittent stream, grading stream banks at the crossing to a 10:1 slope, and installing 40 linear feet of 48 inch HDPE with 10 linear feet of native fieldstone bank stabilization at the outlet to maintain the stream’s base flow. Two cross-vanes and one J-hook totaling 43 linear feet will be installed to create pool-riffle runs to improve the stream’s water quality. The project also involves grading of 220 linear feet of stream above the OHWM to reduce the severity of the streambank slopes. Streambanks will be stabilized with erosion control blanket and seeded with native prairie grasses. For more information on the project and its plan details visit https://www.in.gov/idem/6397.htm.

Comment period: Any person or entity who wishes to submit comments or information relevant to the aforementioned project may do so by the closing date noted above. Only comments or information related to water quality or potential impacts of the project on water quality can be considered by IDEM in the water quality certification review.

Public Hearing: Any person may submit a written request that a public hearing be held to consider issues related to water quality in connection with the project detailed in this notice. The request for a hearing should be submitted within the comment period to be considered timely. The request should also state the reason for the public hearing as specifically as possible to assist IDEM in determining whether a public hearing is warranted.

Questions? Additional information may be obtained from Wes Hauser, Project Manager, by phone at 317-233-4606 or by e-mail at WHauser@idem.IN.gov. Please address all correspondence to the project manager and reference the IDEM project identification number listed on this notice. Indicate if you wish to receive a copy of IDEM’s final decision. Written comments and inquiries may be forwarded to:

Indiana Department of Environmental Management
100 North Senate Avenue
MC65-42 WQS IGCN 1255
Indianapolis, Indiana 46204-2251 FAX: 317/232-8406
LEGEND:

- WETLAND AREA
- STREAM
- DELINEATION LIMITS
- DATA POINT

WETLAND AREA

T1P1
T1P2
T1P3
T1P4
T1P5
T1P6
T1P7
T2P1
T2P2
T2P3
T2P4
T2P5
T2P6
T2P7
T3P1
T3P2
T3P3
T3P4
T3P5
T3P6
T3P7
T4P1
T4P2
T4P3
T4P4
T5P1
T5P2
T5P3
T5P4
T5P5
T5P6
T6P1
T6P2
T6P3
T6P4
T6P5
T6P6
T6P7
T6P8
T7P1
T7P2
T7P3
T7P4
T7P5
T7P6
T7P7
T7P8

LITTLE RIVER
2,539 L.F.

INTERMITTENT STREAM
2,048 L.F.

WETLAND A
2.33 ACRES

LC NATURE PARK
Mr. John Brooks
14505 White Loon Pass
Roanoke, Indiana 46783

WETLAND DELINEATION MAP

N
1 IN = 400 FT
SOURCE: GOOGLE EARTH PRO, 3/2018
SEED MIX LEGEND:
- Sedge Meadow Seed Mix - 1.82 A
- Mesic Prairie Seed Mix - 13.52 A
- Prairie Grass Bank Stabilization Seed Mix - 0.75 A

Overall Restoration Plan

LC Nature Park
Mr. John Brooks
14505 White Loon Pass
Roanoke, Indiana 46783

OVERALL RESTORATION PLAN

1 IN = 250 FT

BASE MAP: Anderson Surveying, Inc.
**LC NATURE PARK**

Mr. John Brooks  
14505 White Loon Pass  
Roanoke, Indiana 46783

**MATERIAL LIST & DETAILS**

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**NOT TO SCALE**

**Stream Flow**

1/31/31/3

20°-30°

Ordinary High Water Mark

NATIVE STONE CROSS-VANE

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**NOT TO SCALE**

**Stream Flow**

1/31/31/3

20°-30°

Ordinary High Water Mark

NATIVE STONE J-HOOK

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**FIG. 5**

**MATERIAL LIST & DETAILS**
LEGEND

BASE FLOOD ELEVATION (754.6) PER FIS
PROPOSED GRADE
EXISTING GRADE
PROPOSED ELEVATION

NOTE: ALL VOLUMES ON THIS SHEET ARE LIMITED BY THE BASE FLOOD ELEVATION

AREA OF FULL TIME WATER
AREA IN CUT ABOVE WATER
AREA OF FILL FOR PATHWAY

SCALE 1”=10’ HORIZ. & VERT.

LONE CYPRESS NATURE PRESERVE
POND “A”

ELEV.  AREA (Ac)  VOLUME (cumul.)

7/3  45047  1 034137  0.371
7/4  62751  1 440784  0.379
7/5  84307  1 830501  2.337 INCREASED
7/6  13552  2 185298  6.096
7/7  15451  3 986086  7.456
7/8  18304  3 749033  10.074

TOTAL ADDITIONAL FLOODPLAIN VOLUME IS 15,474.2 0.074 4.17 ft³
66,448 CUBIC FEET OR
13,874 CUBIC YARDS OF REMOVAL FROM FLOODPLAIN
FOR THE NEW OPEN WATER AREA

WATER VOLUME IS 1.637 ft³
2.585 ACRE-FEET
8,069 CUBIC FEET OR
2,494 CUBIC YARDS OF MATERIAL THAT MUST BE REMOVED
FROM THE FLOOD PLAN TO COMPENSATE FOR THE WATER VOLUME

NOTE: ALL VOLUMES ON THIS SHEET ARE LIMITED BY THE BASE FLOOD ELEVATION

AREA OF FULL TIME WATER
AREA IN CUT ABOVE WATER
AREA OF FILL FOR PATHWAY

SCALE 1”=10’ HORIZ. & VERT.

OPEN WATER AREA SECTIONS
L C NATURE PARK

C-3
1. Temporary seeding of any disturbed area that is scheduled to be left inactive for 10 days or more (throughout the entire construction period).

2. All areas where existing vegetative ground cover is to be preserved shall be clearly marked with barrier tape.

3. Erosion controls shall be installed after the area has been prepared as follows:
   - Areas requiring Erosion Control Blanket Type II (denoted as ECB-II) shall have the following controls:
     - Snow fences shall be placed around the drip lines of major trees that need to be protected and saved.
     - The silt fence shall be a machine produced geotextile of 100% polypropylene the material shall be of woven construction (do not apply if the site is wet, frozen or muddy).

4. Areas along the pond banks shall have the following minimum control:
   - Snow fences shall be placed around the drip lines of major trees that need to be protected and saved.
   - The silt fence shall be a machine produced geotextile of 100% polypropylene the material shall be of woven construction (do not apply if the site is wet, frozen or muddy).

5. Areas requiring Erosion Control Blanket Type II (denoted as ECB-II) shall have the following controls:
   - Snow fences shall be placed around the drip lines of major trees that need to be protected and saved.
   - The silt fence shall be a machine produced geotextile of 100% polypropylene the material shall be of woven construction (do not apply if the site is wet, frozen or muddy).

6. Erosion controls shall be installed after the area has been prepared as follows:
   - Areas requiring Erosion Control Blanket Type II (denoted as ECB-II) shall have the following controls:
     - Snow fences shall be placed around the drip lines of major trees that need to be protected and saved.
     - The silt fence shall be a machine produced geotextile of 100% polypropylene the material shall be of woven construction (do not apply if the site is wet, frozen or muddy).

7. The erosion control measures shall be installed as stated in the construction sequence on the drawing.

8. Any abandoned wells found on this site shall be sealed according to Indiana well drilling laws.

9. Snow fences shall be placed around the drip lines of major trees that need to be protected and saved.

10. The INDIANA STORM WATER QUALITY MANUAL, published by the Indiana Department of Environmental Management, shall be used in conjunction with these guidelines for storm water management.

11. Any redundant area that is not disturbed in the construction process shall be seeded at 90% revegetation.

12. All areas where existing vegetation ground cover is to be preserved shall be clearly marked with barrier tape.

13. Areas where existing vegetation ground cover is to be preserved shall be clearly marked with barrier tape.


15. Existing vegetation on the site is fallow / natural prairie grasses.

16. The area shall be surveyed and stakeout shall be completed to ensure the correct location of all features.

17. A temporary silt fence shall be placed around the drip lines of major trees that need to be protected and saved.

18. Areas requiring Erosion Control Blanket Type II (denoted as ECB-II) shall have the following controls:
   - Snow fences shall be placed around the drip lines of major trees that need to be protected and saved.
   - The silt fence shall be a machine produced geotextile of 100% polypropylene the material shall be of woven construction (do not apply if the site is wet, frozen or muddy).

19. Areas requiring Erosion Control Blanket Type II (denoted as ECB-II) shall have the following controls:
   - Snow fences shall be placed around the drip lines of major trees that need to be protected and saved.
   - The silt fence shall be a machine produced geotextile of 100% polypropylene the material shall be of woven construction (do not apply if the site is wet, frozen or muddy).

20. This drawing shall be used in conjunction with the erosion control guidelines & LC Nature Park 2021 Site Improvements.