

# Pelham 2024 Prime Wetlands Study



WEST  
ENVIRONMENTAL INC.

# 2024 Prime Wetland Original Proposal

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- This proposal is based on the recommendations of the Pelham Conservation Commission to evaluate
- 10 wetlands totaling 202 acres
- Identified as Wetlands D, E, F, G, H, N, P, Q, R and V on the Pelham Prime Wetlands Assessment Map.

Wetland	Acres
A	11.2
B	18.4
C	49.5
D	17.2
E	50.0
F	24.8
G	6.4
H	24.4
I	58.2
J	9.3
K	2.4
L	3.3
M	13.2
N	8.6
O	11.8
P	22.2
Q	13.2
R	68.2
S	15.0
T	37.2
U	41.0
V	20.1
W	11.5
X	37.2
Y	37.9
Z	13.2

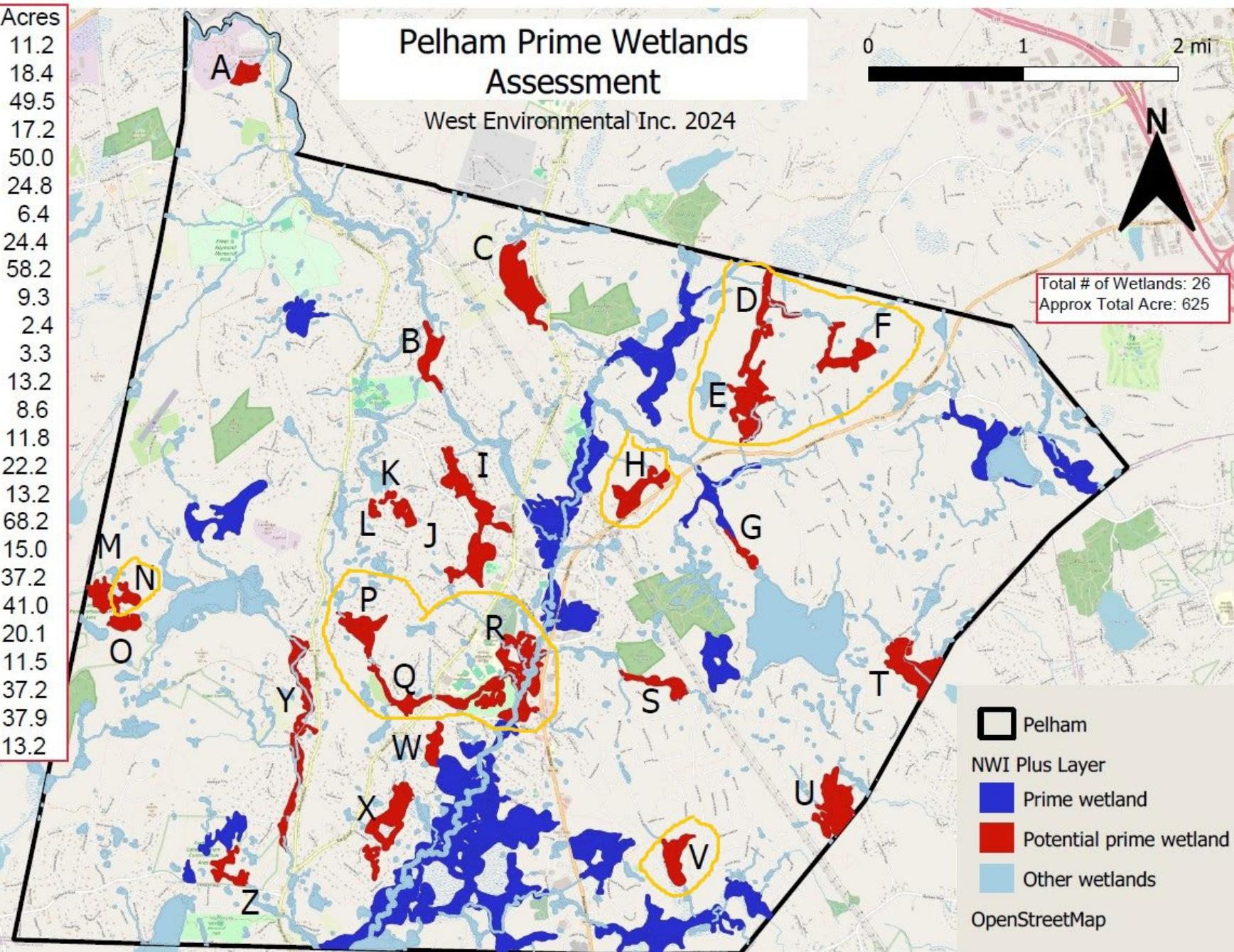
# Pelham Prime Wetlands Assessment

West Environmental Inc. 2024

0 1 2 mi

A black compass rose with a large 'N' at the top, positioned in the bottom right corner of the map.

Total # of Wetlands: 26  
Approx Total Acre: 625



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- Verify that the wetland meets the statutory requirements established for a prime wetland to be at least 2 acres in size; to not consist of a water body only; to have at least 4 primary wetland functions, one of which must be wildlife habitat; and to be at least 50 feet wide at its narrowest point.

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- Prepare final report and shape files of prime wetlands.
- Present findings to the Pelham Conservation Commission.

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- There are no new 100-foot buffers to any new Prime Wetlands

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- Wetland D and E were not accessible and therefore were not mapped and studied for Prime Wetland Designation
- Wetland G is already designated as a Prime Wetland

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- Wetland R had to be separated into two wetlands due to a constructed trail bridge that reduced the width below 50 feet.

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# Pelham Prime Wetlands Assessment

West Environmental Inc. 2024

0 1 2 mi

N

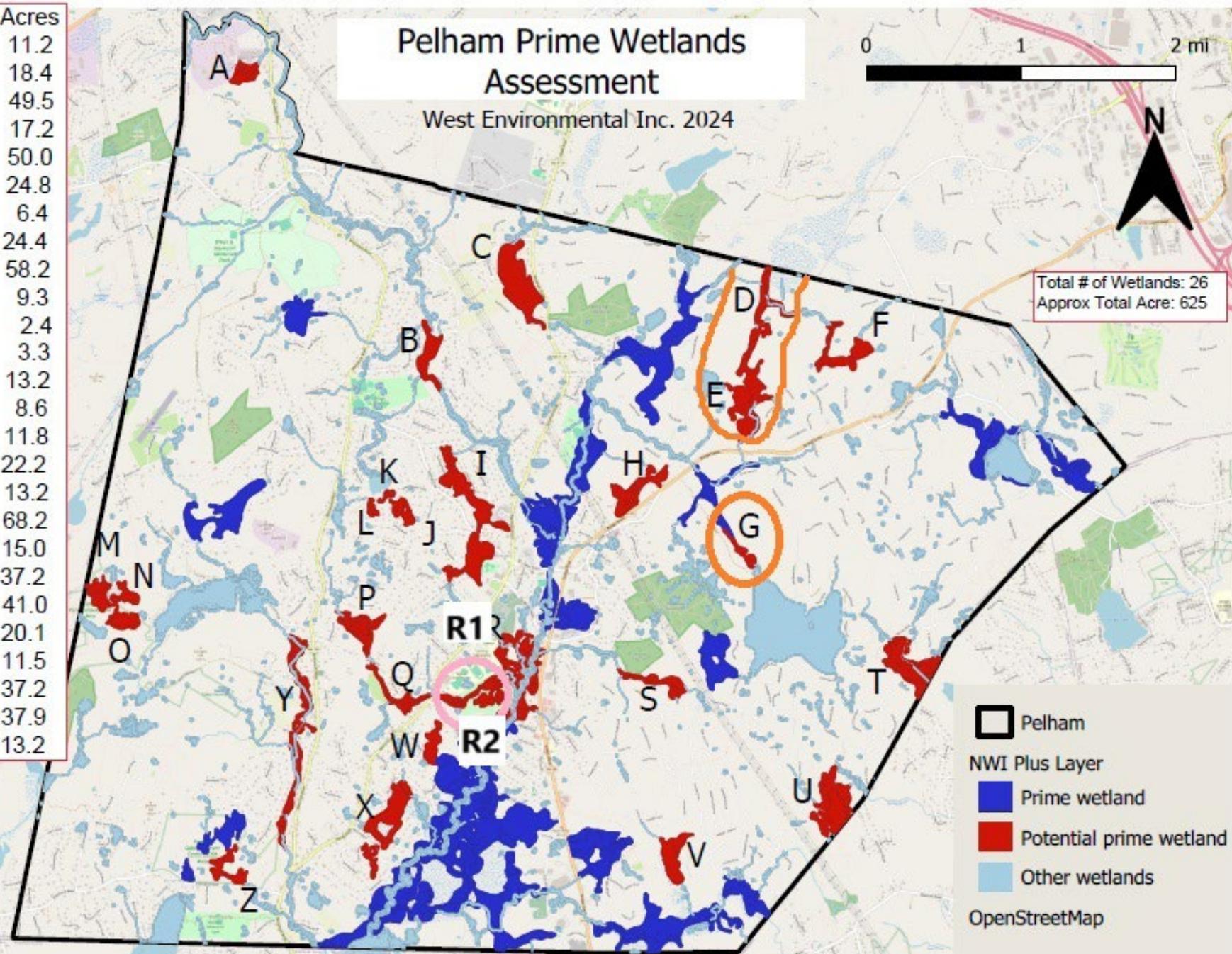
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Pelham

NWI Plus Layer

- Prime wetland
- Potential prime wetland
- Other wetlands

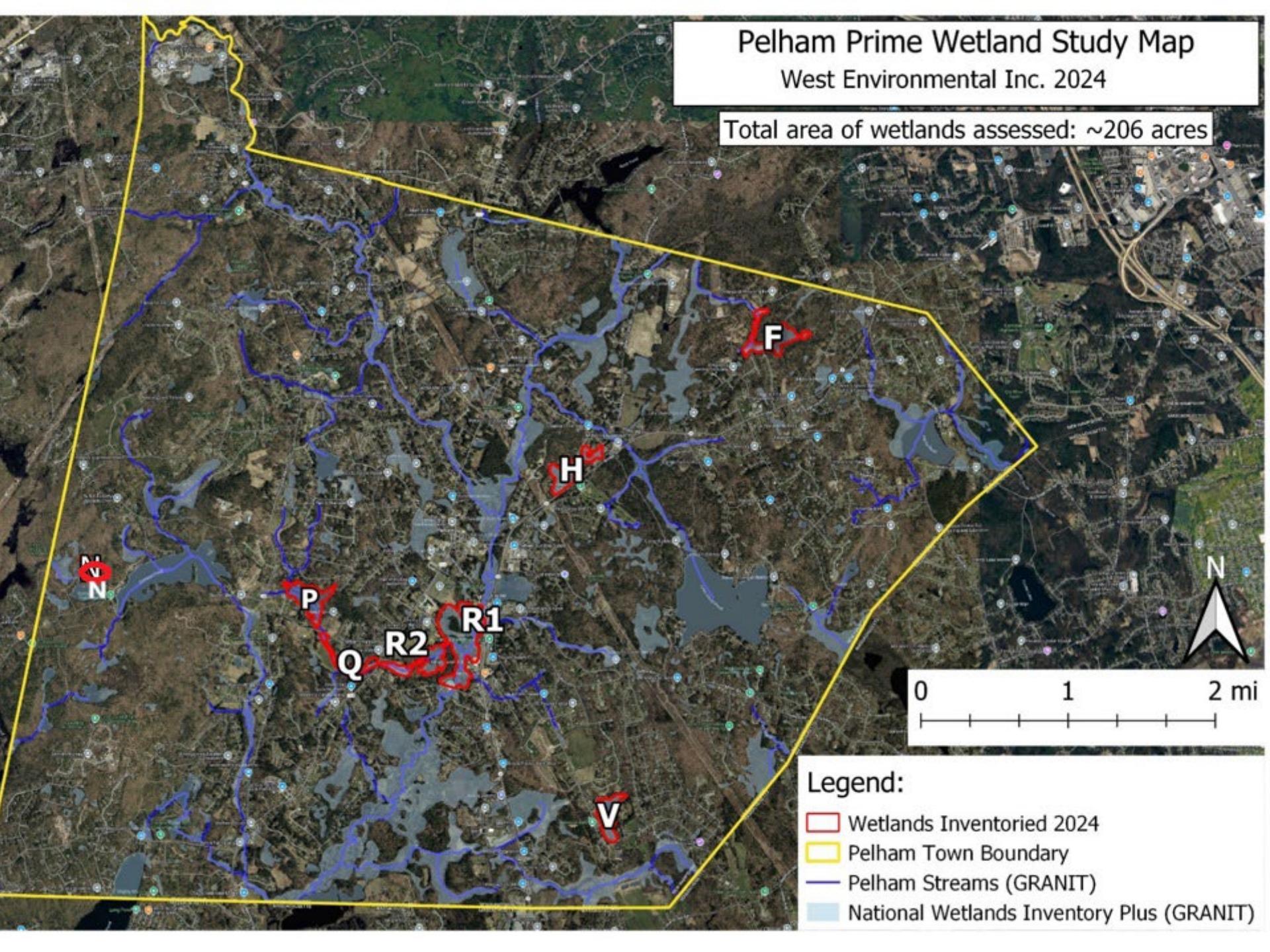
OpenStreetMap

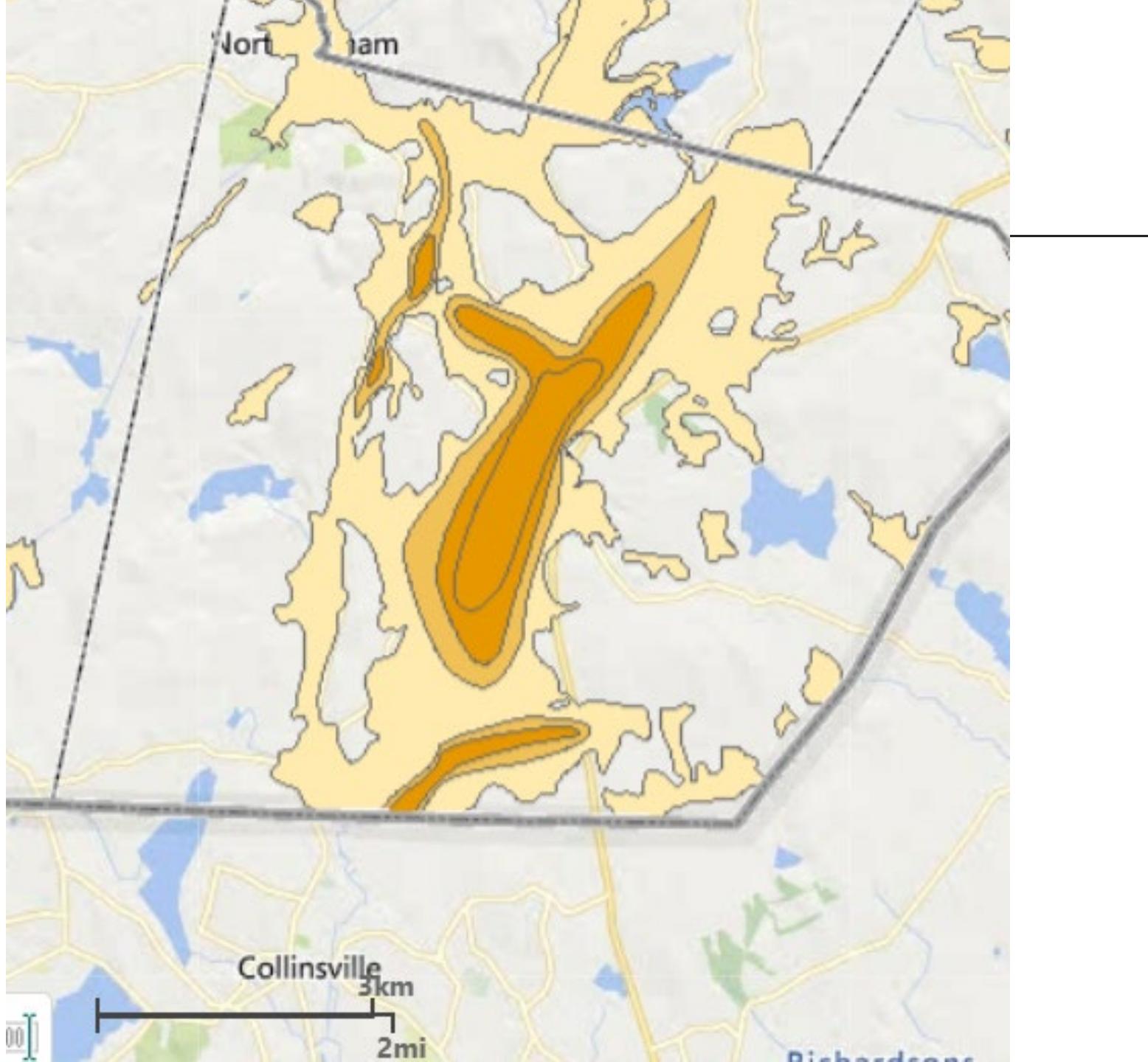


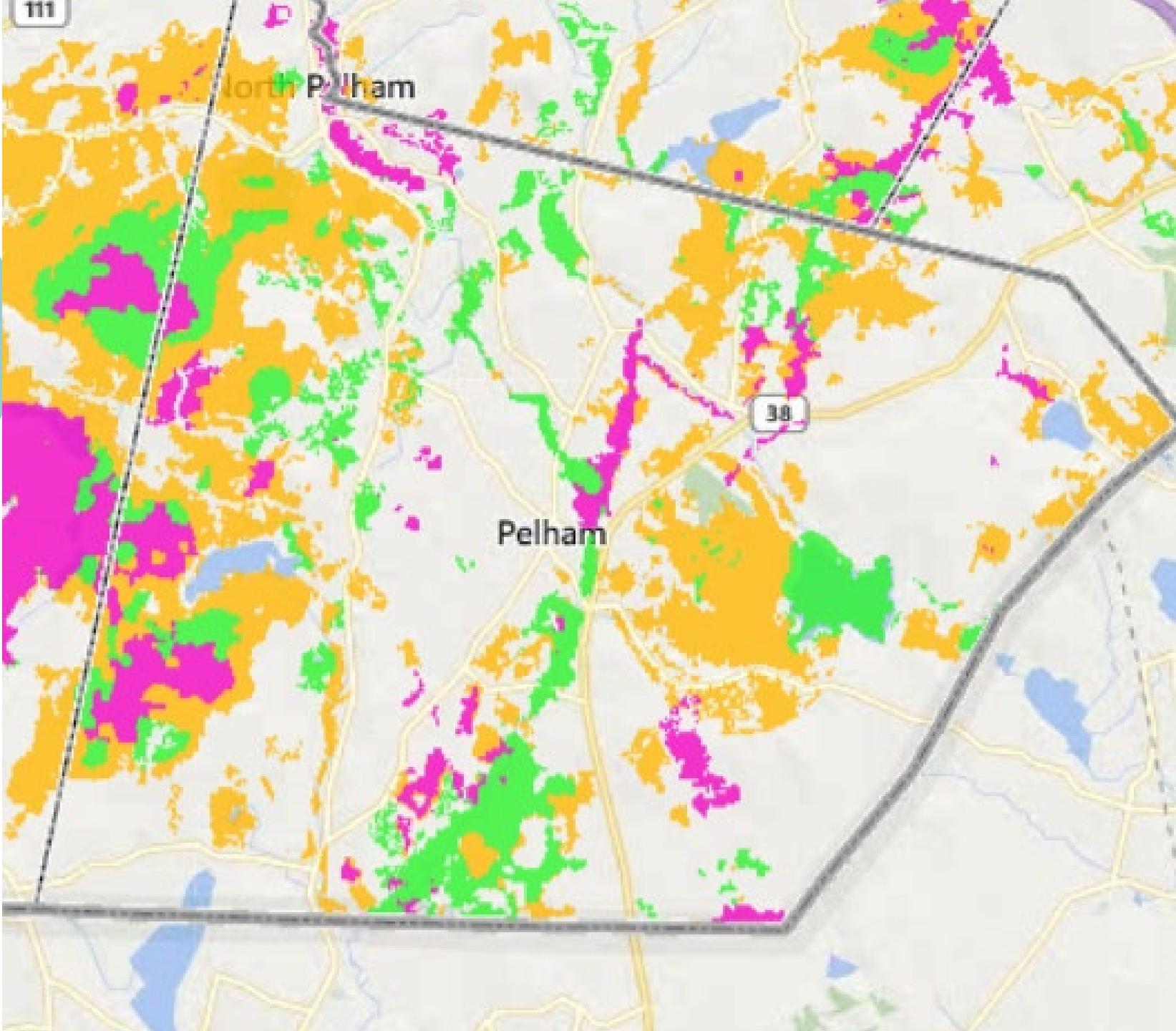
# Pelham Prime Wetland Study Map

West Environmental Inc. 2024

Total area of wetlands assessed: ~206 acres







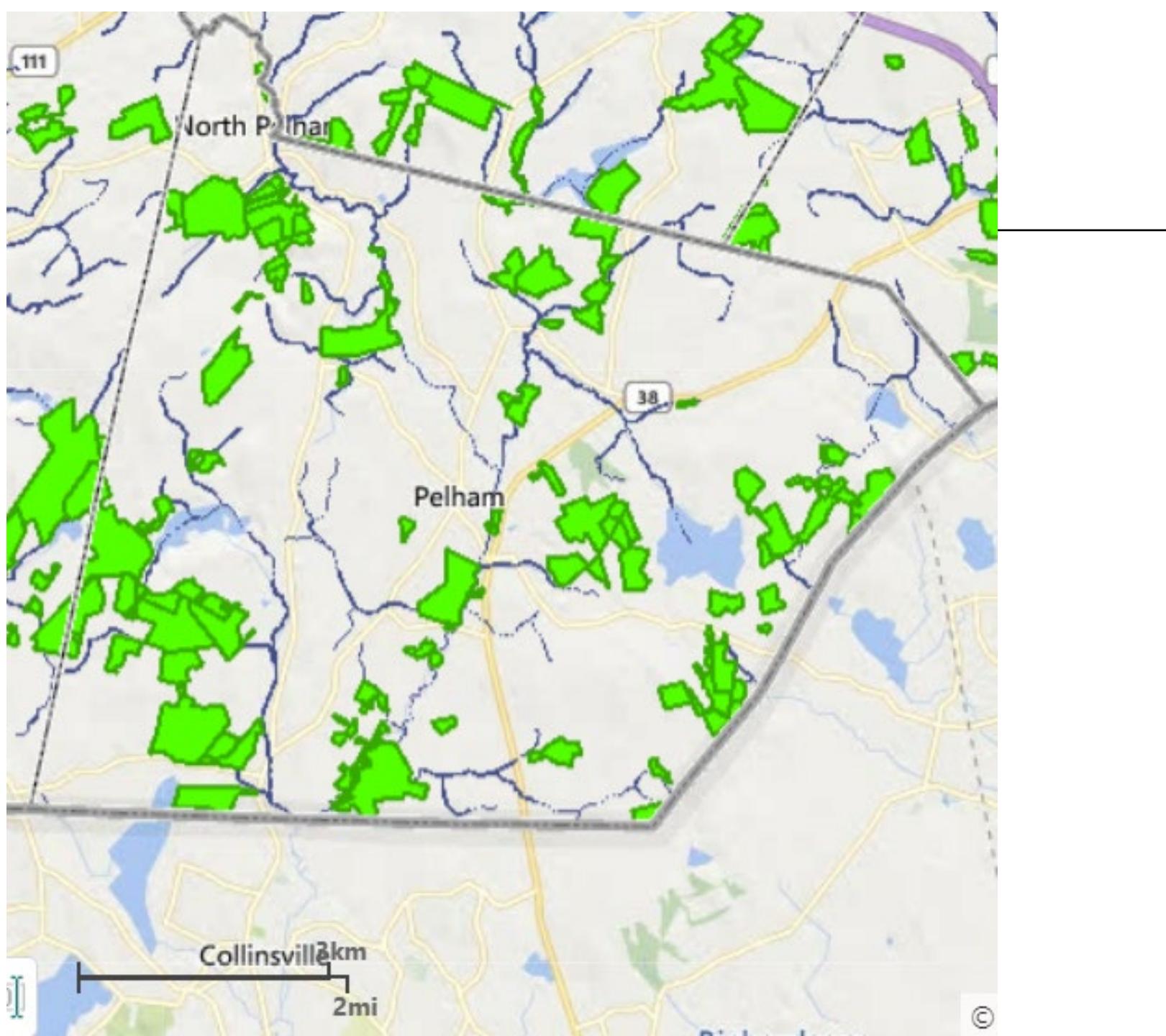


Table 1. Area of each wetland in acres after being remapped by West Environmental Inc. 2024.

Wetland	F	H	N	P	Q	R1	R2	V
Acres	24.9	23.6	6.3	26.9	12.8	69.1	22.2	19.9

### New Hampshire Method Summary Results



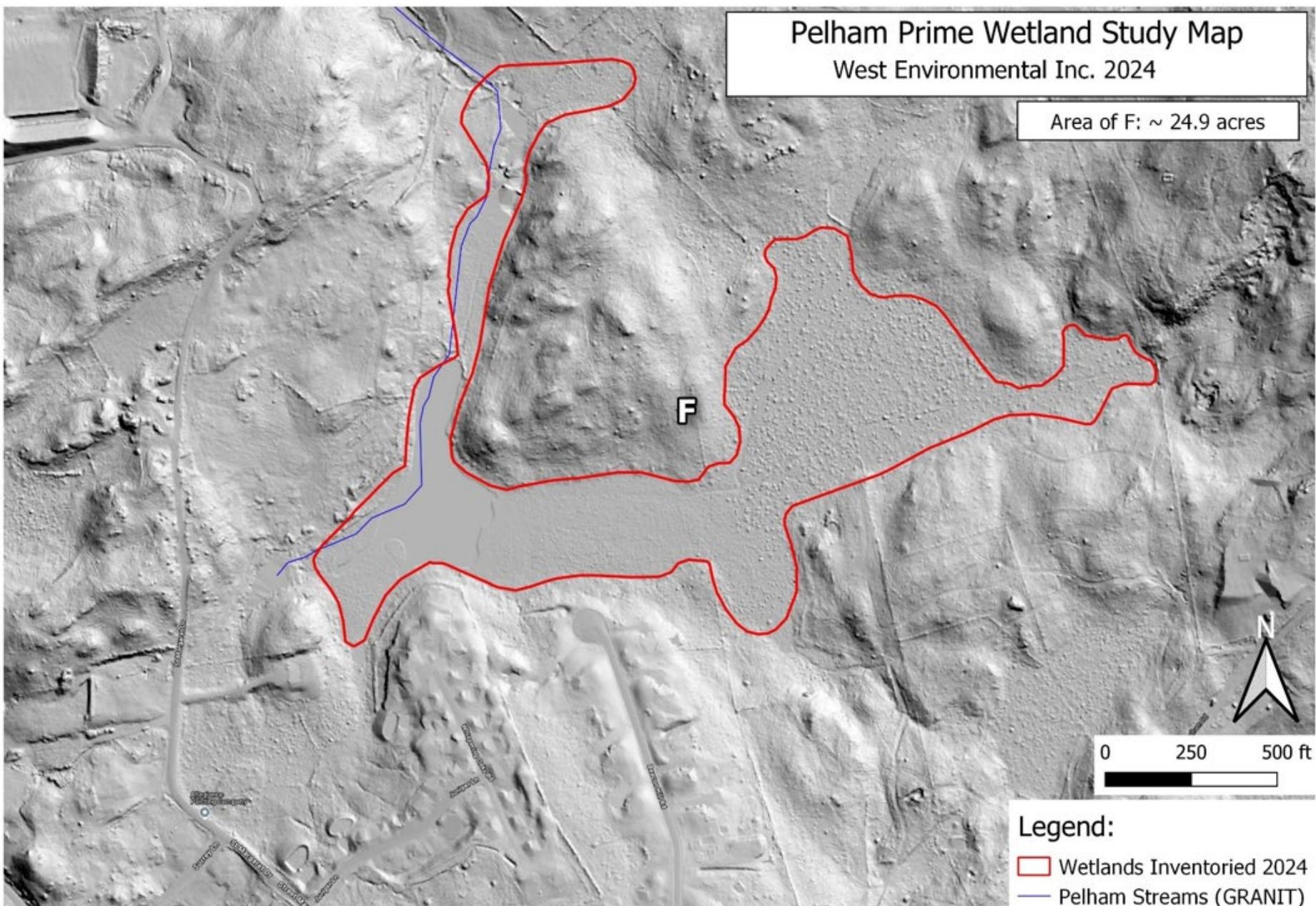
Wetland Functions & Scores	Wetland F	Wetland H	Wetland N	Wetland P	Wetland Q	Wetland R1	Wetland R2	Wetland V
1. ECOLOGICAL INTEGRITY	7.5	7	9.5	6.3	5.9	5	5.9	5.4
2. WETLAND WILDLIFE HABITAT	6.4	4.9	7.2	6.3	5.9	4.4	5	3.9
3. FISH & AQUATIC HABITAT	5.6	1.7	3.8	3.1	3.7	4.5	4.1	3
4. SCENIC QUALITY	3.8	2.3	4.5	6.8	6.8	8.5	8.5	3.8
5. EDUCATIONAL POTENTIAL	3.5	2.1	5.7	3.8	3.8	6.9	6.5	2.6
6. WETLAND-BASED RECREATION	2.7	1.2	5.3	3.4	2.5	8	5.6	1.5
7. FLOODWATER STORAGE	2.7	2.8	2.2	2.7	2.4	3.9	3.4	2.7
8. GROUNDWATER	4.4	4.2	0.8	5.2	5.2	5	6.2	3.4
9. SEDIMENT TRAPPING	4.2	8.3	6.2	6.2	7	5.1	6.2	5.5
10. NUTRIENT TRANSFORMATION	5.4	5.2	6.8	4	6.9	6.8	6.8	5.6
11. SHORELINE ANCHORING	7.5	2.8	7.8	6.3	7.5	7.5	8.8	6.5
12. NOTEWORTHINESS	20	10	20	10	20	30	30	10



# Pelham Prime Wetland Study Map

West Environmental Inc. 2024

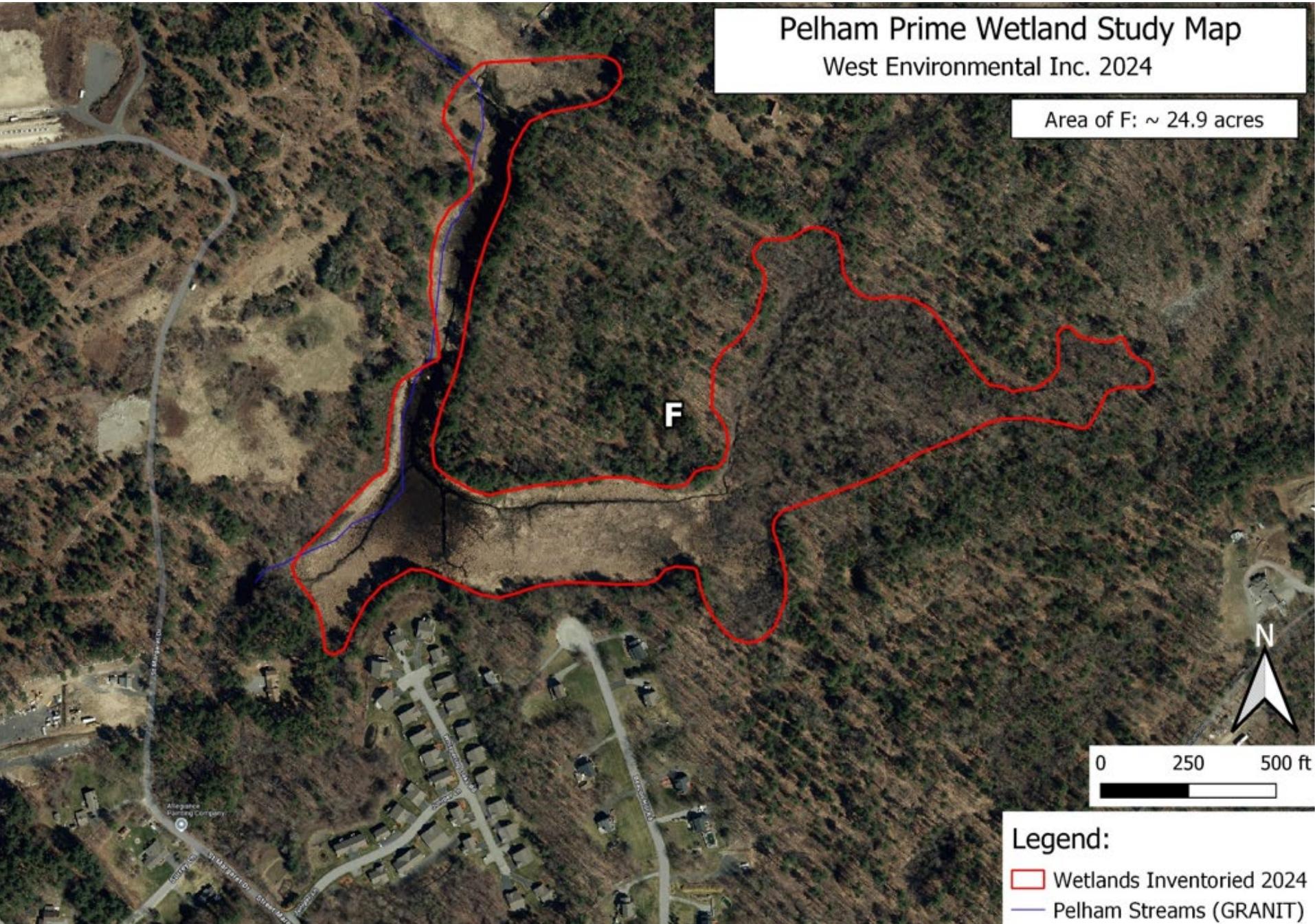
Area of F: ~ 24.9 acres



# Pelham Prime Wetland Study Map

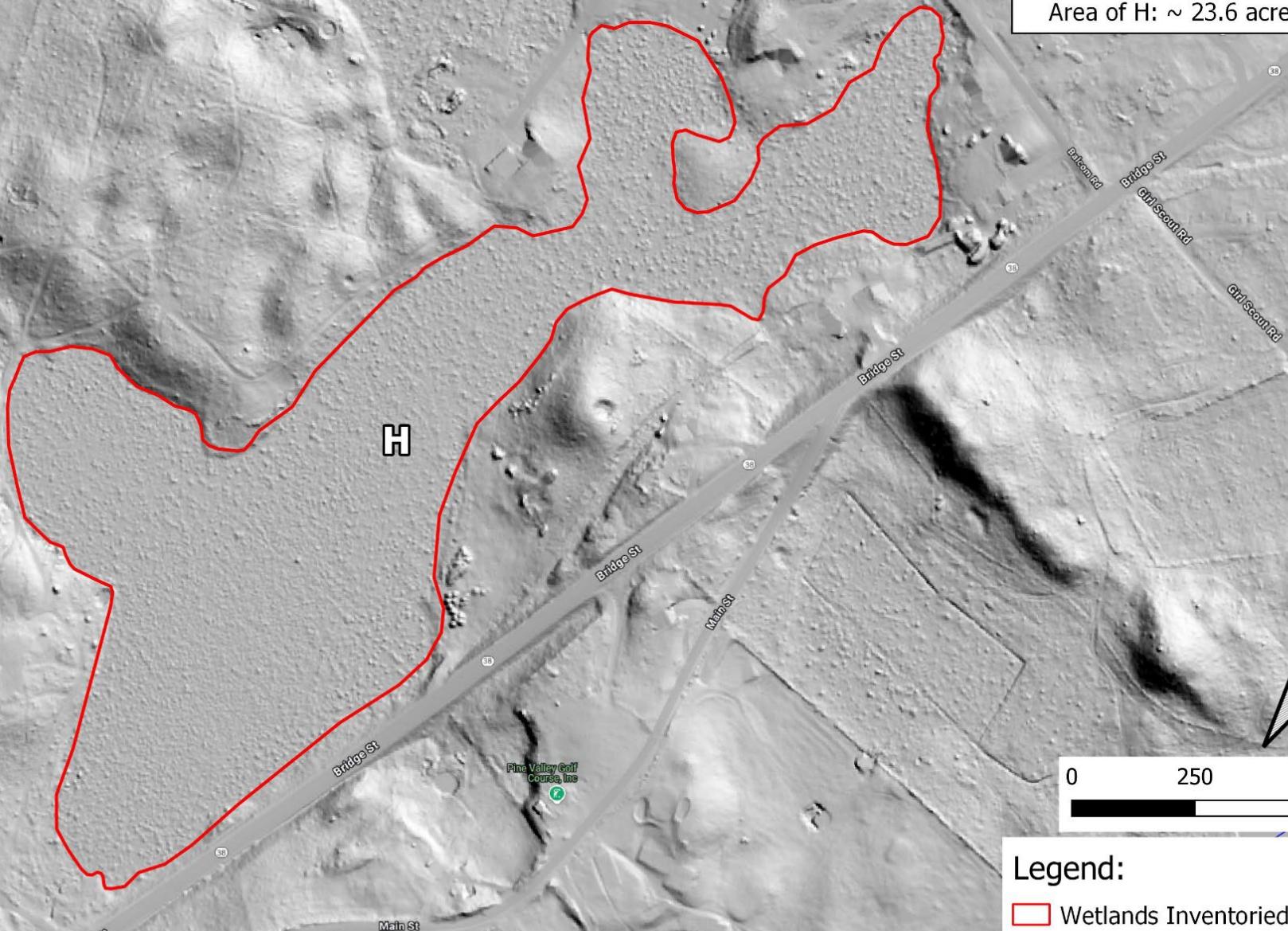
West Environmental Inc. 2024

Area of F: ~ 24.9 acres



Pelham Prime Wetland Study Map  
West Environmental Inc. 2024

Area of H: ~ 23.6 acres



Legend:

■ Wetlands Inventoried 2024

# Pelham Prime Wetland Study Map

West Environmental Inc. 2024

Area of H: ~ 23.6 acres

H



0 250 500 ft

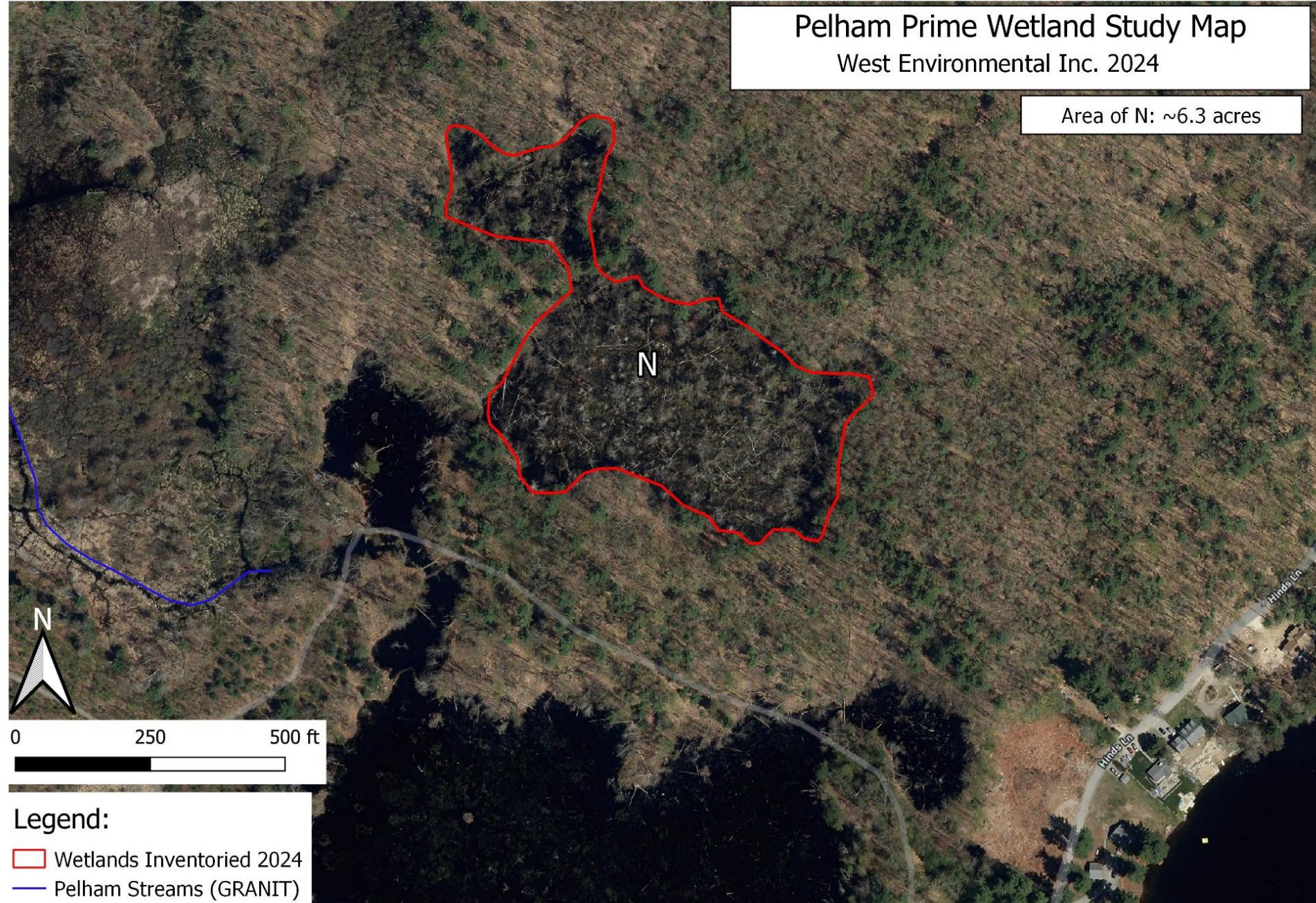
## Legend:

■ Wetlands Inventoried 2024

# Pelham Prime Wetland Study Map

West Environmental Inc. 2024

Area of N: ~6.3 acres



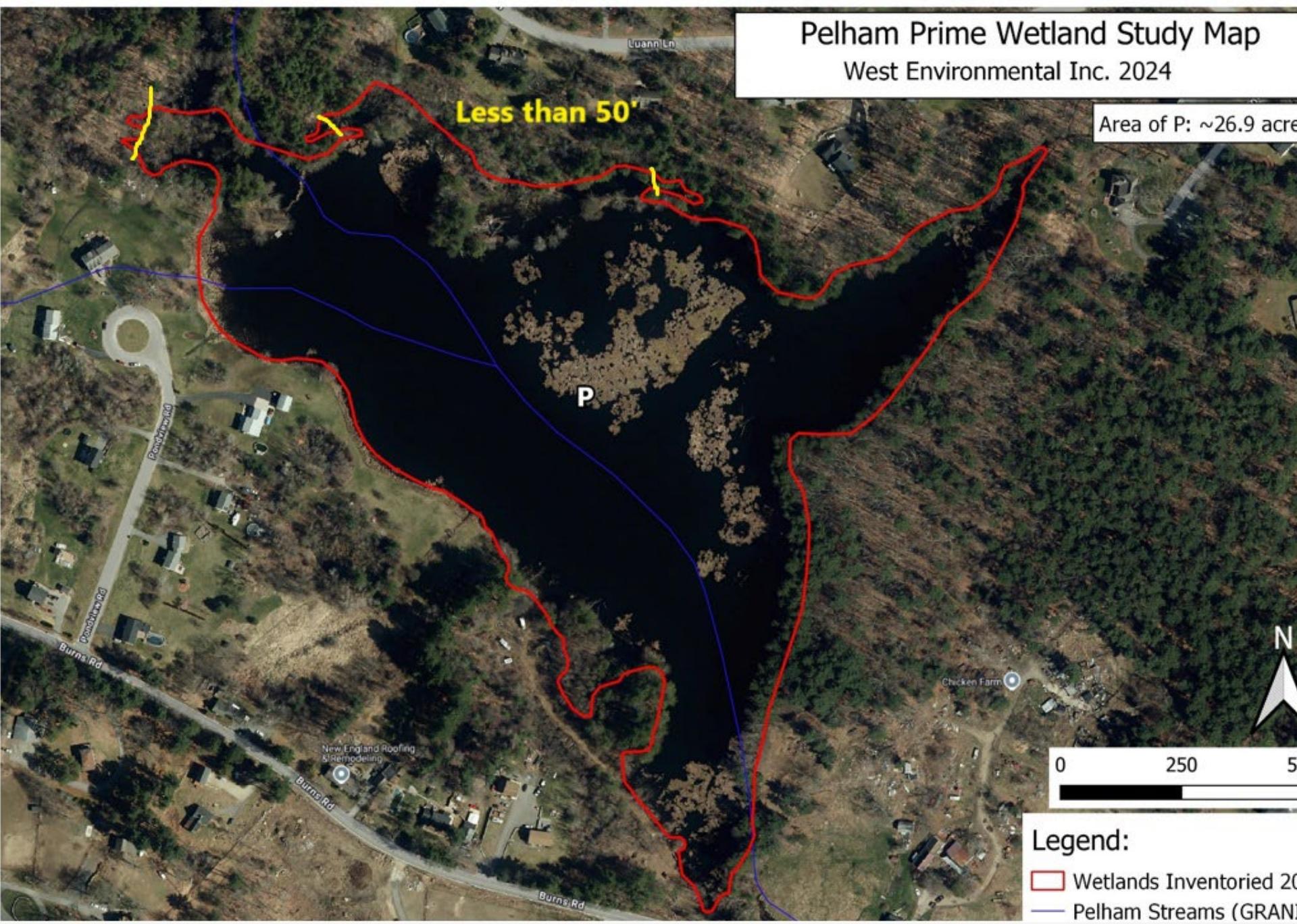
# Pelham Prime Wetland Study Map

West Environmental Inc. 2024

Area of P: ~26.9 acres

Less than 50'

P



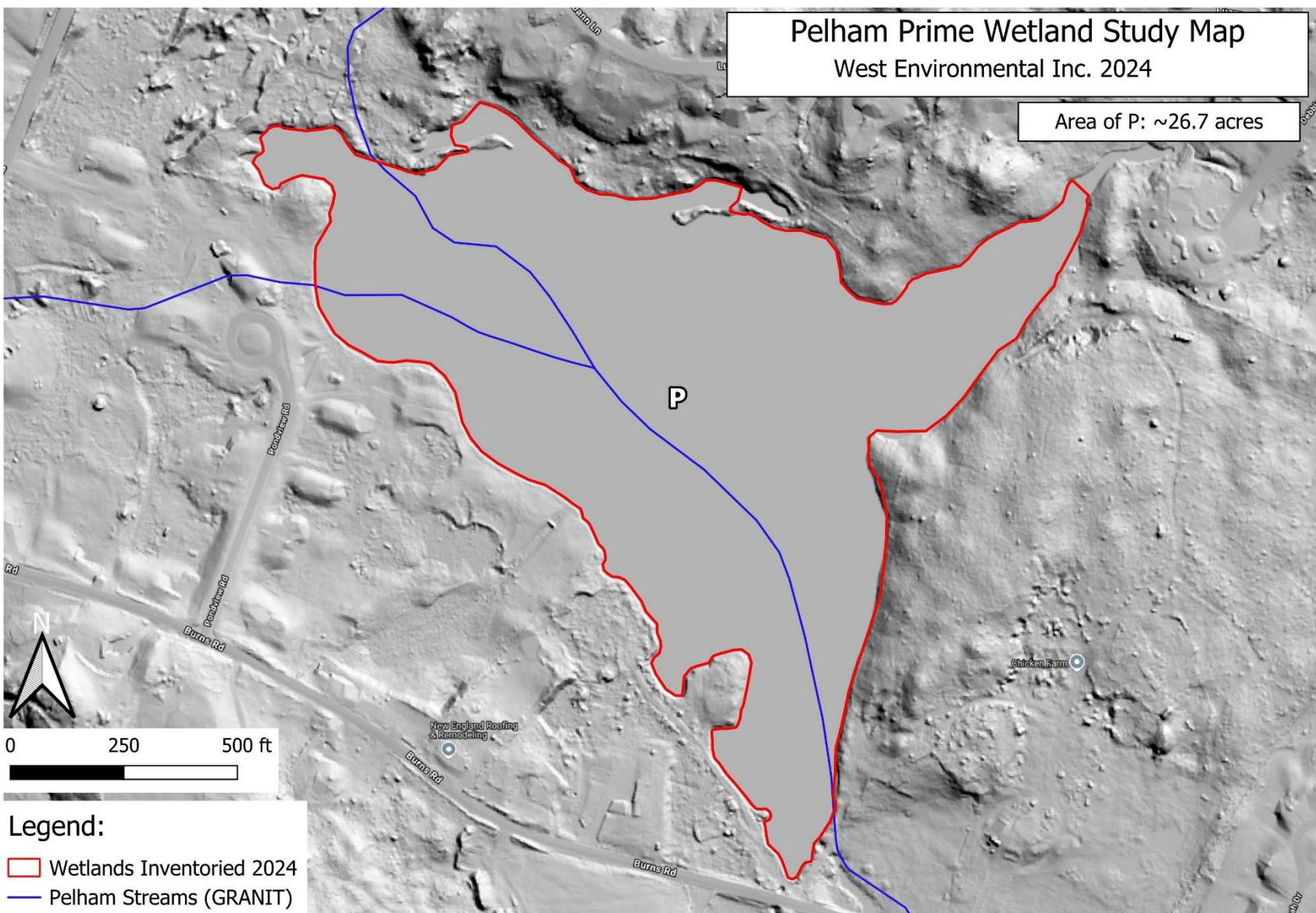
## Legend:

- Wetlands Inventoried 2024
- Pelham Streams (GRAN)
- Less than 50'

# Pelham Prime Wetland Study Map

West Environmental Inc. 2024

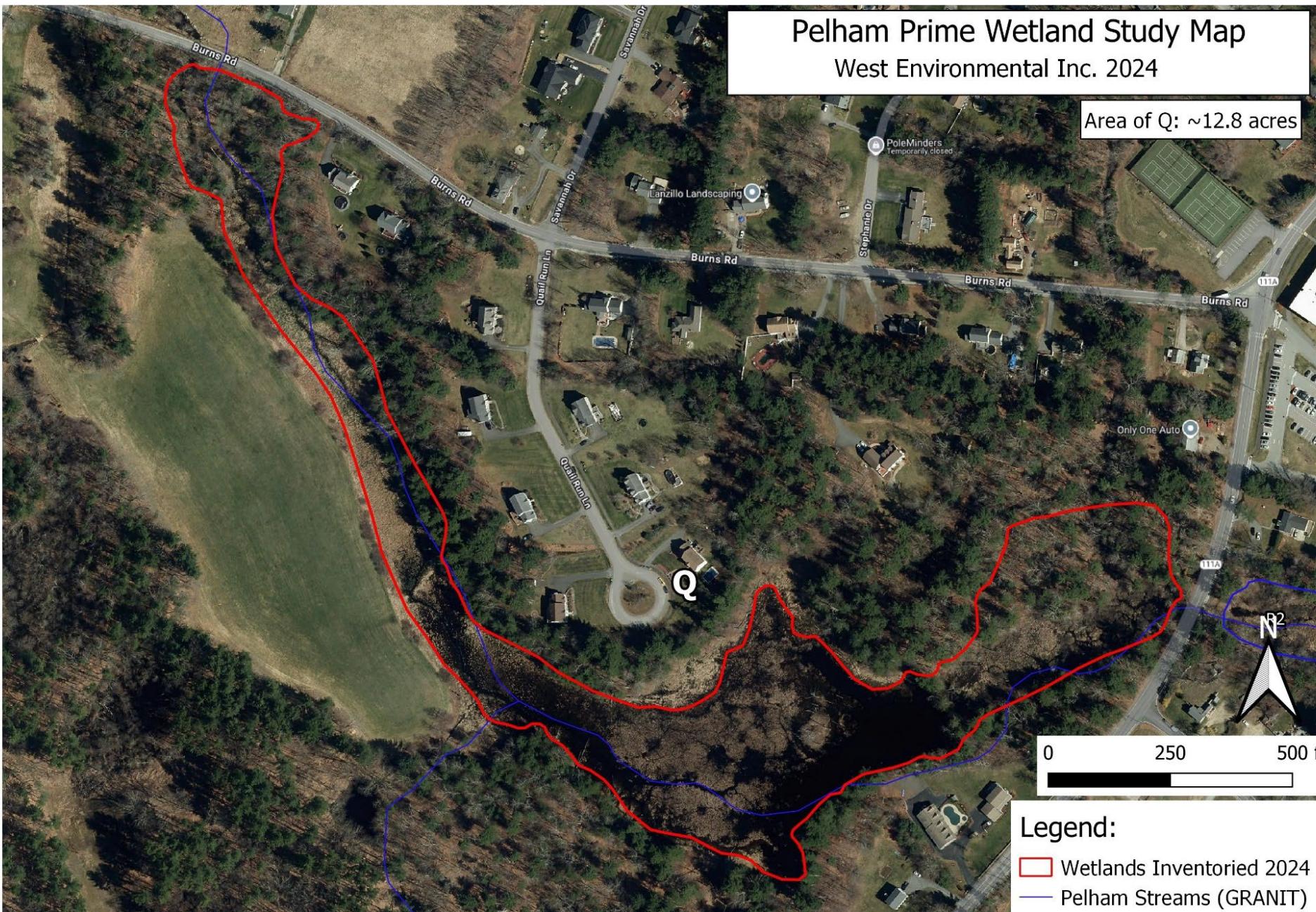
Area of P: ~26.7 acres



# Pelham Prime Wetland Study Map

West Environmental Inc. 2024

Area of Q: ~12.8 acres

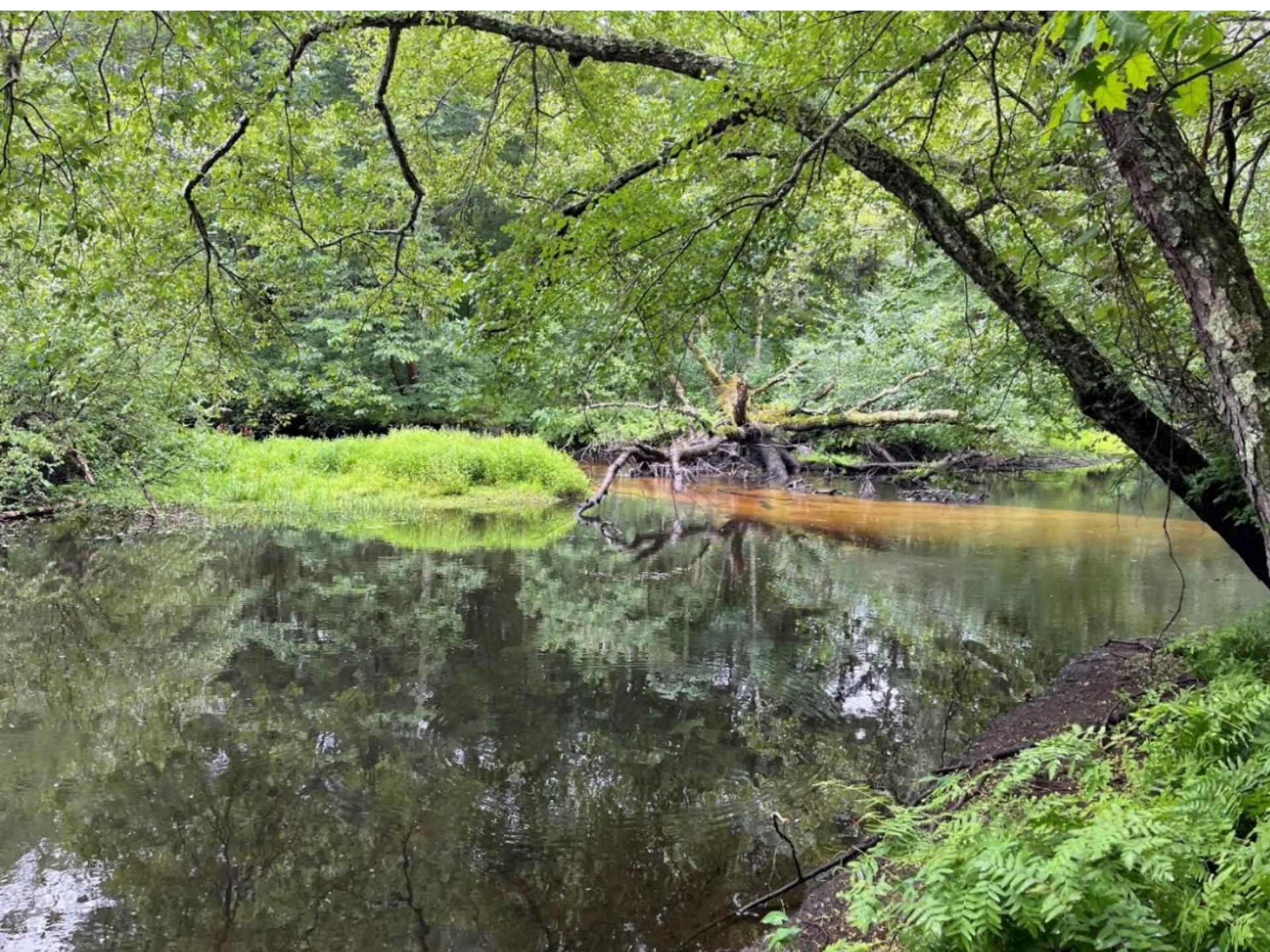


# Pelham Prime Wetland Study Map

West Environmental Inc. 2024

Area of R1: ~69.1 acres



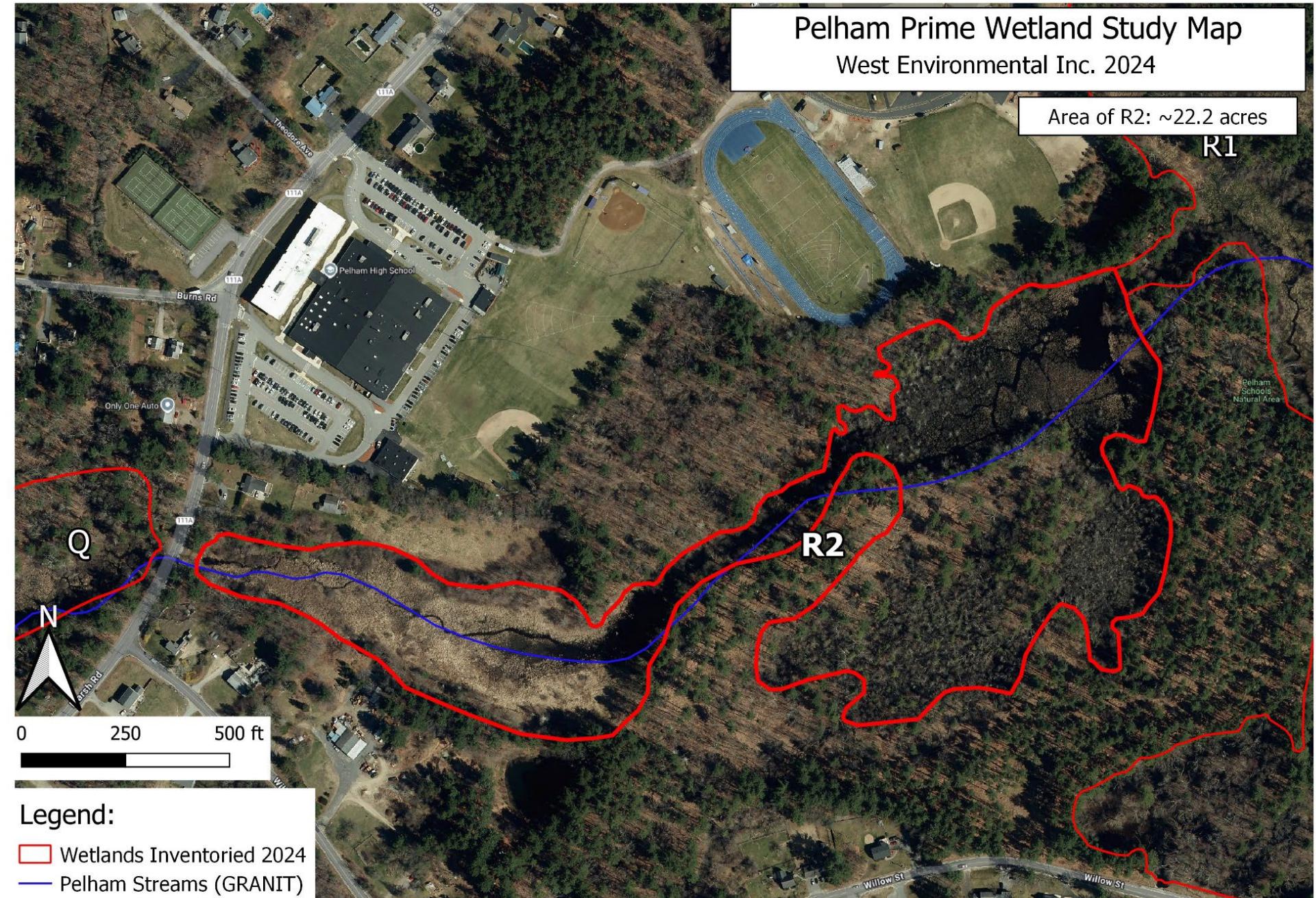




Pelham Prime Wetland Study Map  
West Environmental Inc. 2024

Area of R2: ~22.2 acres

R1



# Pelham Prime Wetland Study Map

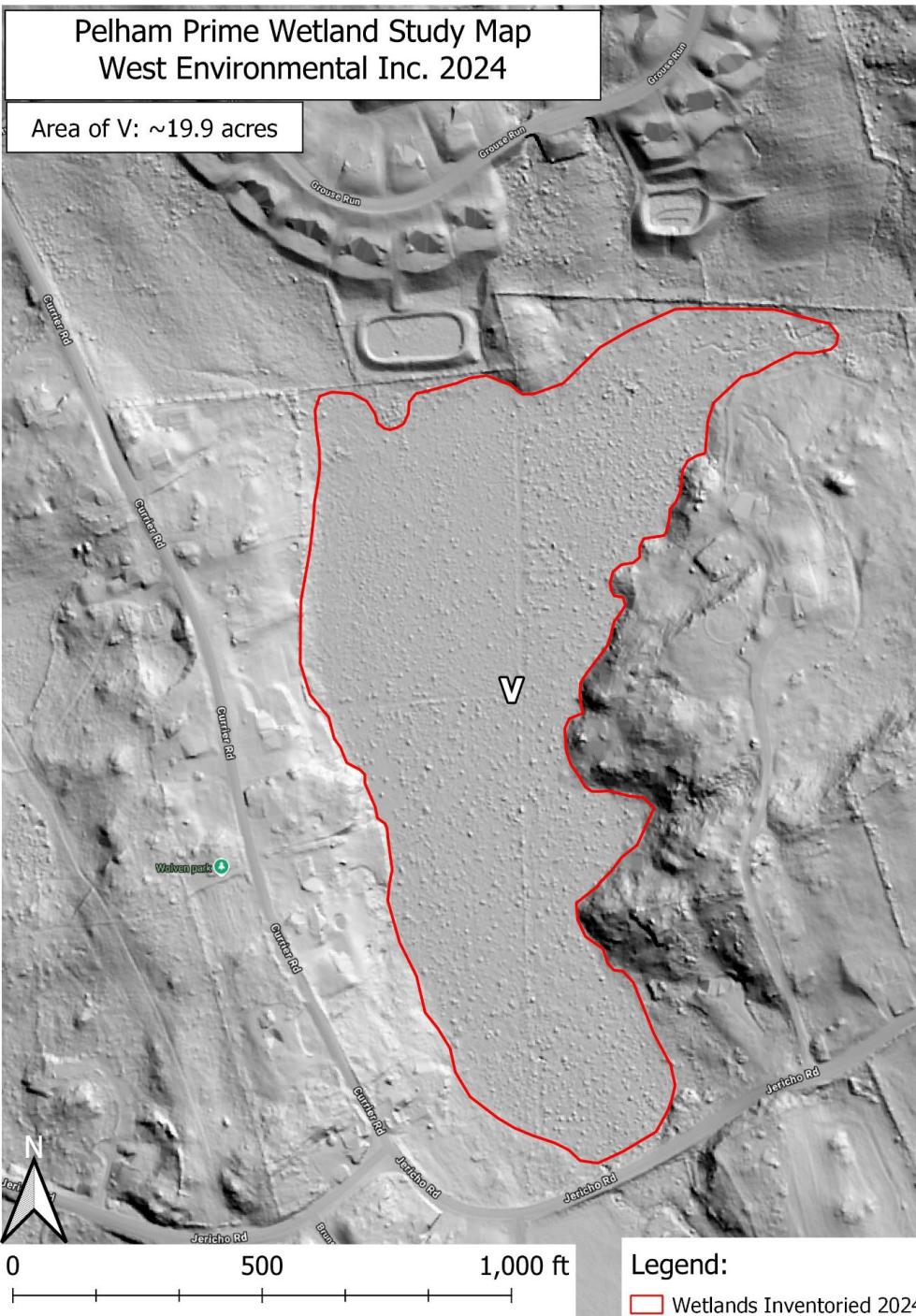
West Environmental Inc. 2024

Area of V: ~19.9 acres



Pelham Prime Wetland Study Map  
West Environmental Inc. 2024

Area of V: ~19.9 acres



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oQuestions ?

- (a) The local authority shall:
  - (1) Use the most accurate maps available, verifying the boundaries of proposed prime wetlands with an on-site review where landowner permission is provided;
  - (2) Mark state plane coordinate reference points based on the State Plane Coordinate System 1983 on the map;
  - (3) Clearly identify and separately label each prime wetlands on the map; and
  - (4) Use a blue or black line to denote the boundaries of the prime wetlands;
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- (b) Each map shall be on one or more sheets that:
  - (1) Do not exceed 28 inches by 40 inches; and
  - (2) Have a one-inch border and a title block with scale and legend;
- (c) The scale of the map shall be one inch equals 1,000 feet or a scale that provides greater detail; and
- (d) The map(s) shall show:
  - (1) The exterior boundary of each delineated prime wetlands; and
  - (2) Property boundaries and parcel ID numbers.

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- Env-Wt 703.03 Report Requirements. The written report required by Env-Wt 703.01(b) shall:
  - (a) Correlate each prime wetlands by name or number to the map(s) submitted pursuant to Env-Wt 703.01(a);
  - (b) Describe the methods used to delineate the boundaries of the prime wetlands and evaluate the functions and values of the prime wetlands;

- (c) Present the specific functions and values evaluation data for each prime wetland;
- (d) Provide baseline documentation of the existing wetland condition that includes the following:
  - (1) Photos of each prime wetlands showing representative natural community systems; and
  - (2) The location of protected lands, town parks, town forests, buildings, and infrastructure in relation to the prime wetlands being designated.