

## ERS CONSULTANTS, INC. 11 Forester Avenue \* Warwick, NY 10990 Tel # (845) 987-1775 \* Fax # (845) 987-1788

February 7, 2019

Jeremy Valentine Lehman & Getz Engineering, P.C. 17 River Street Warwick, NY 10990

RE: Endangered Species Habitat Assessment on the Tin Barn Brewery Project

Dear Jeremy;

The New York State Department of Environmental Conservation (NYSDEC) New York Natural Heritage Program has identified one federal and state listed species, the bog turtle (*Glyptemys muhlenbergii*), that occurs in the vicinity of the subject property.

ERS Consultants, Inc. conducted an endangered species habitat assessment on February 6, 2019 at the Tin Barn Brewery Project located at 62 Kings Highway (County Highway 13A) in the Town of Chester, Orange County, New York. The subject property consists of approximately 4.8 +/- acres and is known as Section 13, Block 1, Lot 44.22. The site is developed with a 12,000 square foot 1-story metal building and approximately 158 parking spaces. The site is shown on the Warwick, NY US Geological Survey Quadrangle. Prior to conducted field investigations the National Resource Conservation Service (NRCS) Soils Maps, the US Fish & Wildlife Services (USFWS) National Wetland Inventory Maps (NWI) and the NYSDEC Freshwater Wetlands Maps were reviewed. The NRCS Soils Maps show two soil units including Mardin and Erie soils. Mardin soils occur on about 85% of the site and Erie soils about 15%. Erie soils are considered hydric soils. The USFWS NWI Maps show no wetlands on the subject site. The NYSDEC Freshwater Wetland Maps also show no State regulated wetlands on site but state wetlands (WR-19, Class 1) do exist to the west.

The applicant, Dale Van Pamelen, is proposing to utilize the existing structure and parking lot for a brewery including beer production, tasting room and some food preparation. The existing well and the on-site septic system will be abandoned and the facility will be supplied by the Town of Chester municipal water and sewer.

Habitats occupied by bog turtles in the Hudson Valley are wet meadows, sedge meadows, and red maple swamps (New York Natural Heritage Program, NYSDEC Bog Turtle Fact Sheet, USFWS 2001). Bog turtles have specific habitat requirements that include spring-fed, open-canopy wetlands with shallow, slow-moving water, deep mucky soils, and tussock-forming herbaceous vegetation. For example, tussock sedge (*Carex stricta*) or moss (*Sphagnum* spp.) covered hummocks are typical habitat for these species. A diversity of microhabitats within these wetlands provide areas that the turtles require for basking, foraging, nesting, and hibernation.

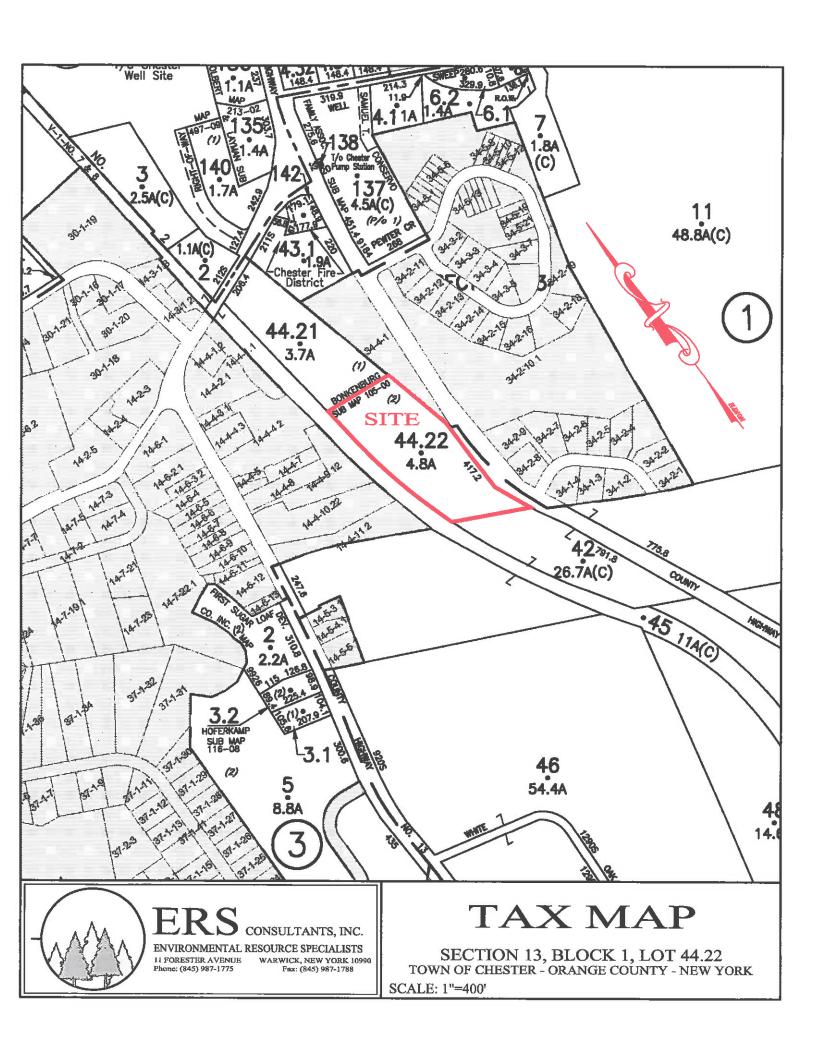
The methodology used to conduct this habitat evaluation followed the guidelines of the USFWS Bog Turtle Habitat (Phase 1) Survey Report. The bog turtle survey consisted of an evaluation of the wetlands for potential suitable bog turtle habitat. The survey is completed by assessing the presence and suitability of three key habitat criteria: hydrology, soils, and vegetation. Suitable hydrology is identified by the presence of springs or seeps, year-round saturated soils, and shallow surface water, particularly slow-moving rivulets; although, the wetland can be interspersed with both wet and dry pockets. Suitable soils are generically described as mucky. The term "mucky" does not refer to a technical soil type, rather mucky soils are described as soft and penetrable to a depth equal to or greater than 3 inches. Suitable vegetation includes shrub and herbaceous species, primarily sedges, grasses, and rushes.

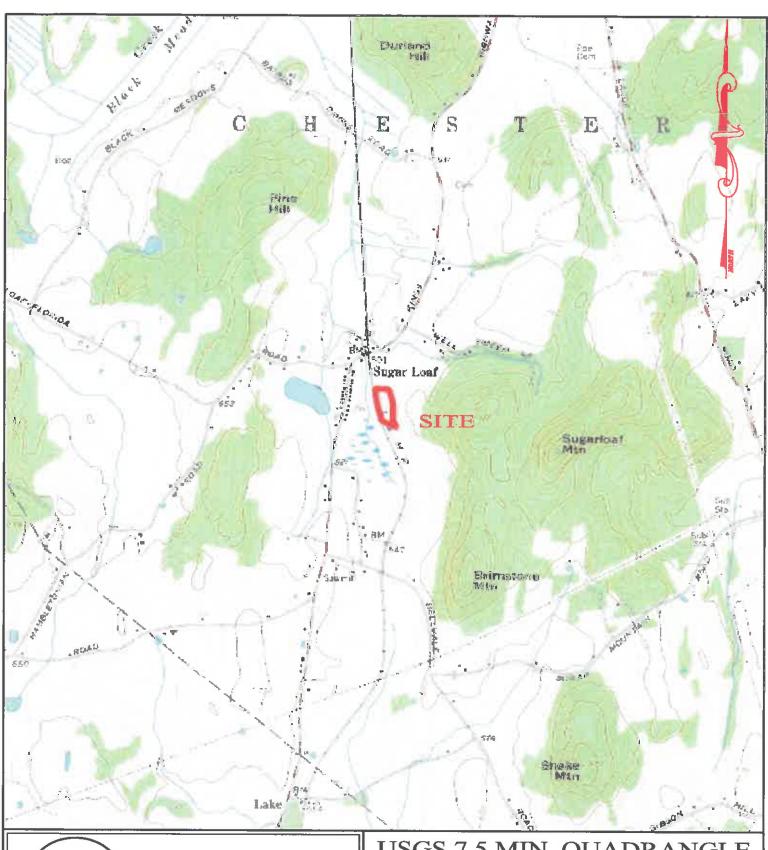
Based upon observations of hydrology, soils, and vegetation, no suitable bog turtle habitat existed within the offsite wetlands on the east side of the railroad line. No mucky soils were identified on-site. Herbaceous vegetation is dominated by purple loosestrife (*Lythrum salicaria*) and cattail (*Typha latifolia*). Potential suitable habitat does exist on the west side of the railroad line and mucky soils are identified there. There does not appear to be a hydrologic connection between the wetlands on the east and west sides of the railroad line.

In reviewing the current site plan for Tin Barn Brewery, Inc. prepared by Lehman & Getz P.C. Consulting Engineers and dated 1/08/19, the only site disturbance proposed would be the location of a 2 inch pvc water line and a 2 inch sewer line to be placed in the lawn area on the east side of the existing driveway. Based upon this habitat assessment, the proposed construction activity will not result in an impact to this reptile species.

Very truly yours, ERS Consultants, Inc.

David Griggs Senior Scientist







ERS CONSULTANTS, INC.

ENVIRONMENTAL RESOURCE SPECIALISTS

## USGS 7.5 MIN. QUADRANGLE WARWICK

SECTION 13, BLOCK 1, LOT 44.22 TOWN OF CHESTER - ORANGE COUNTY - NEW YORK SCALE: 1"=2,000'





ERS

CONSULTANTS, INC.

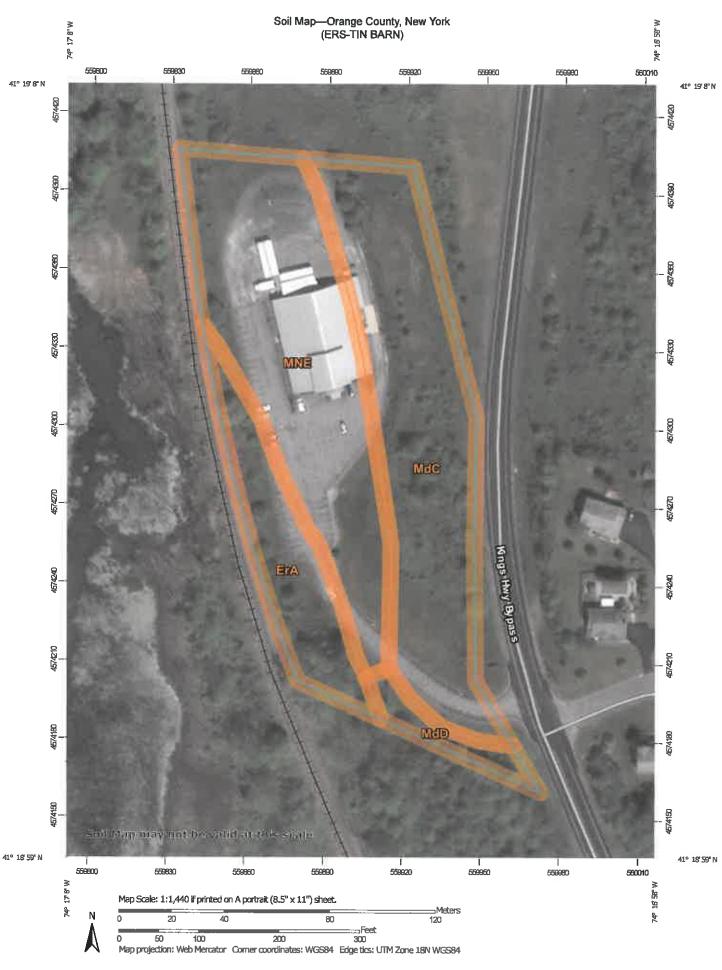
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### 2018 COLOR AERIAL PHOTO

SECTION 13, BLOCK 1, LOT 44.22 TOWN OF CHESTER - ORANGE COUNTY - NEW YORK

SCALE: 1"=500'



## **Natural Resources** Conservation Service

# MAP LEGEND

### Solls Area of Interest (AOI) Special Point Features Clay Spot Borrow Pit Blowout Soil Map Unit Points Soil Map Unit Lines Soil Map Unit Polygons Area of Interest (AOI) Water Features Transportation 8 b 0 Streams and Canals Special Line Features Other Very Stony Spot Stony Spot Wet Spot Spoil Area

### ţ Rails

Interstate Highways



US Routes

# Background

Lava Flow Landfill Gravelly Spot Gravel Pit Closed Depression

Major Roads

Local Roads

Aerial Photography

# MAP INFORMATION

1:15,800. The soil surveys that comprise your AOI were mapped at

Warning: Soil Map may not be valid at this scale.

contrasting soils that could have been shown at a more detailed misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of Enlargement of maps beyond the scale of mapping can cause

Please rely on the bar scale on each map sheet for map measurements.

Coordinate System: Web Mercator (EPSG:3857) Web Soil Survey URL: Source of Map: Natural Resources Conservation Service

accurate calculations of distance or area are required. Albers equal-area conic projection, should be used if more distance and area. A projection that preserves area, such as the projection, which preserves direction and shape but distorts Maps from the Web Soil Survey are based on the Web Mercator

of the version date(s) listed below. This product is generated from the USDA-NRCS certified data as

Soil map units are labeled (as space allows) for map scales Soil Survey Area: Orange County, New York Survey Area Data: Version 19, Sep 3, 2018

Date(s) aerial images were photographed: Oct 7, 2013—Feb 26,

1:50,000 or larger.

compiled and digitized probably differs from the background shifting of map unit boundaries may be evident. imagery displayed on these maps. As a result, some minor The orthophoto or other base map on which the soil lines were

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Severely Eroded Spot

Sinkhole

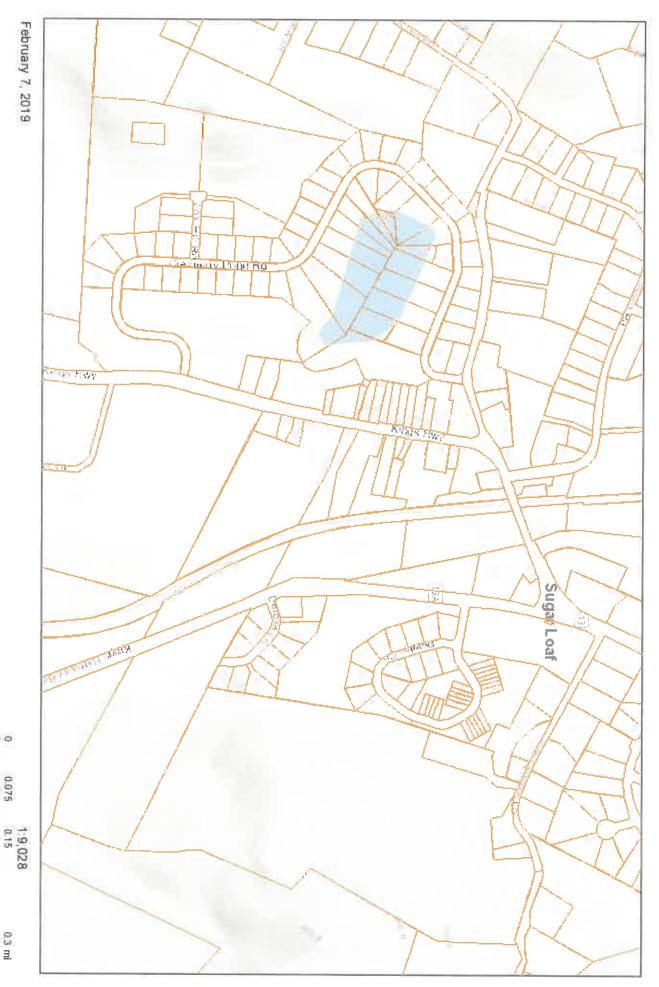
Sandy Spot Saline Spot Rock Outcrop Perennial Water Miscellaneous Water Mine or Quarry Marsh or swamp

Sodic Spot Slide or Slip

### **Map Unit Legend**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ErA	Erie gravelly silt loam, 0 to 3 percent slopes	0.7	14.7%
MdC	Mardin gravelly silt loam, 8 to 15 percent slopes	1.9	40.3%
MdD	Mardin gravelly silt loam, 15 to 25 percent slopes	0.2	3.7%
MNE	Mardin soils, steep	2.0	41.4%
Totals for Area of Interest		4.8	100.0%

# TIN BARN



Sources: Epit HERE: Gentlin, Welmap, Increment PiCorp., GERCO, USGS FAO, NPS, NRCAN, GedBask, IGN, Kadaster NL, Ordnarke Survey, Esri

0.1 0.075

0.4 km

0.3 m



# TIN BARN CHESTER NWI WETLANDS



February 6, 2019

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Pond

Freshwater Emergent Wetland

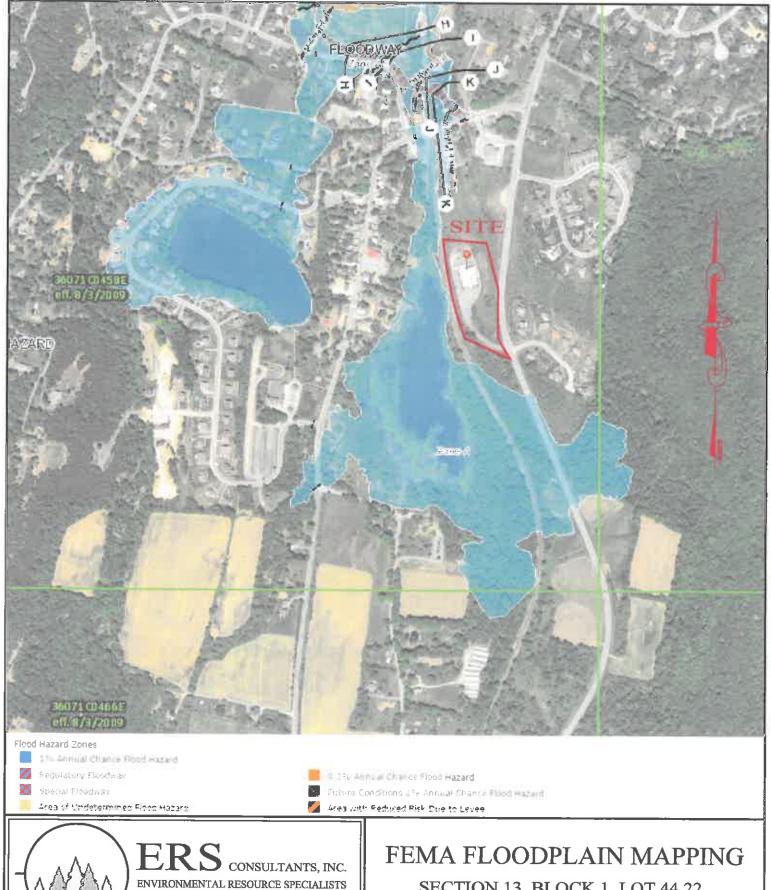
Freshwater Forested/Shrub Wetland

Lake

Other

Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.





ENVIRONMENTAL RESOURCE SPECIALISTS 11 FORESTER AVENUE Phone: (845) 987-1775 WARWICK, NEW YORK 10990 Fax: (845) 987-1788 SECTION 13, BLOCK 1, LOT 44.22 TOWN OF CHESTER - ORANGE COUNTY - NEW YORK

SCALE: 1"=650'



Photo 1: Looking north from parking lot at 1-story metal structure.



Photo 2: Looking north from driveway at 1-story metal structure. Lawn area is where proposed water and sewer line would be located.



Photo 3: Looking southeast along driveway toward Kings Highway. Lawn area is where water and sewer lines are proposed.



Photo 4: Looking north at 18 inch storm water pipe located at toe of slope off the parking lot.



Photo 5: Looking north along property boundary at wetlands on both sides of the railroad line.

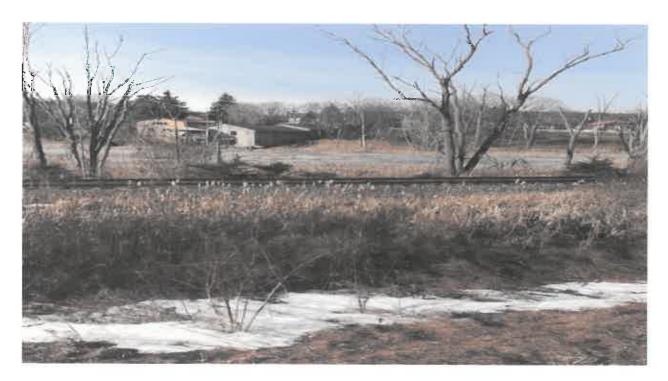


Photo 6: Looking west at wetlands on both sides of the railroad line.