



## NEW HAMPSHIRE NATURAL HERITAGE BUREAU

DRED - DIVISION OF FORESTS & LANDS  
PO Box 1856 -- 172 PEMBROKE ROAD, CONCORD, NH 03302-1856  
PHONE: (603) 271-2214 FAX: (603) 271-6488

**To:** Ellen Snyder, Ibis Wildlife Consulting  
26 Johnson Drive  
Newmarket NH 03857

**From:** Sara Cairns, NH Natural Heritage Bureau

**Date:** 2009-05-19

**Re:** Review by NH Natural Heritage Bureau of request dated 2009-05-18

**NHB File ID:** 576

**Project type:** Landowner Request

**Town:** Durham

**Location:** Doe Farm

I have searched our database for records of rare species and exemplary natural communities on the property(s) identified in your request. Our database includes known records for species officially listed as Threatened or Endangered by either the state of New Hampshire or the federal government, as well as species and natural communities judged by experts to be at risk in New Hampshire but not yet formally listed.

**This site includes part of an area flagged by NH Fish & Game for possible impacts on rare mussels. Contact Kim Tuttle (271-6544) for more details. The closest documented mussel population is ca. 7.5miles upstream.**

NHB records on the property(s):

	Mapping Precision	% within tract	Last Reported	Listing Status		Conservation Rank	
				Federal	NH	Global	State
<b>Invertebrate Species</b>							
Brook Floater ( <i>Alasmidonta varicosa</i> )	--	0	1978	--	E	G3	S1
<b>Plant species</b>							
Knotty Pondweed ( <i>Potamogeton nodosus</i> )	Good	< 1	2004	--	E	G5	S1

NHB records within one mile of the property(s):

	Last Reported	Listing Status		Conservation Rank	
		Federal	NH	Global	State
<b>Vertebrate species (For more information on animal species, contact Kim Tuttle, NH F&amp;G at 271-6544)</b>					
Great Blue Heron (Rookery) ( <i>Ardea herodias</i> )	1986	--	--	G5	S4B
Osprey ( <i>Pandion haliaetus</i> )	2006	--	SC	G5	S2B
Sedge Wren ( <i>Cistothorus platensis</i> )	2001	--	E	G5	S1
Banded Sunfish ( <i>Enneacanthus obesus</i> )	2005	--	SC	G5	S3
Spotted Turtle ( <i>Clemmys guttata</i> )	2002	--	T	G5	S3

**NOTE: This review *cannot* be used to satisfy a permit or other regulatory requirement to check for rare species or habitats that could be affected by a proposed project, since it provides detailed information only for records actually on the property.**



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<b>Natural Community</b>		<b>Federal</b>	<b>NH</b>	<b>Global</b>	<b>State</b>
Red maple - lake sedge swamp	1996	--	--	--	S3
Red maple - Sphagnum basin swamp	1996	--	--	--	S4
<b>Plant species</b>		<b>Federal</b>	<b>NH</b>	<b>Global</b>	<b>State</b>
Water Marigold ( <i>Megalodonta beckii</i> )	1994	--	E	G4	S1
American waterwort ( <i>Elatine americana</i> )	1955	--	--	G4	SH
Three-seeded Mercury ( <i>Acalypha virginica</i> )	1976	--	E	G5	S1
Downy False Foxglove ( <i>Aureolaria virginica</i> )	1941	--	E	G5	S1
Small-crested Sedge ( <i>Carex cristatella</i> )	1996	--	T	G5	S2
Lined Bulrush ( <i>Scirpus pendulus</i> )	1962	--	E	G5	S1
Hairy Brome Grass ( <i>Bromus pubescens</i> )	1943	--	E	G5	S1
Sharp-flowered Mannagrass ( <i>Glyceria acutiflora</i> )	1943	--	E	G5	S1
Large Bur-reed ( <i>Sparganium eurycarpum</i> )	2004	--	T	G5	S2
Blunt-lobe Woodsia ( <i>Woodsia obtusa</i> )	1993	--	E	G5	S1

Listing codes: T = Threatened, E = Endangered

Rank prefix: G = Global, S = State, T = Global or state rank for a sub-species or variety (taxon)

Rank suffix: 1-5 = Most (1) to least (5) imperiled. "--", U, NR = Not ranked.

B = Breeding population, N = Non-breeding. H = Historical, X = Extirpated.

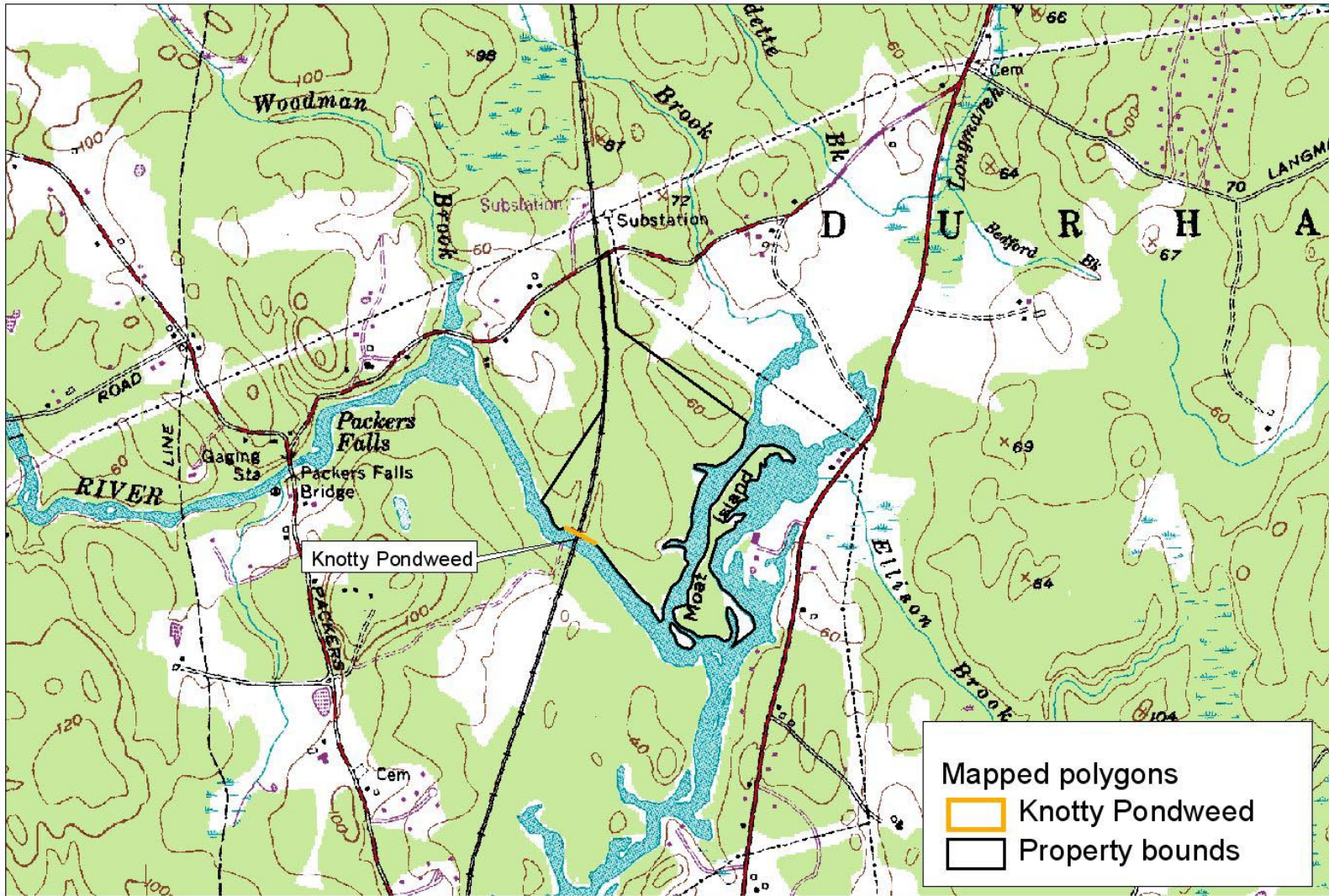
A negative result (no record in our database) does not mean that no rare species are present. Our data can only tell you of known occurrences, based on information gathered by qualified biologists and reported to our office. However, many areas have never been surveyed, or have only been surveyed for certain species. An on-site survey would provide better information on what species and communities are indeed present.

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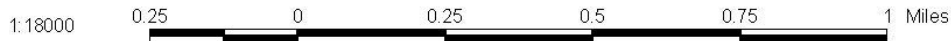
### Known locations of rare species and exemplary natural communities

Sensitive species are labelled but not mapped. All other records are clipped to the property boundaries. Occurrences not on the property are not shown.



\*Historical record

**Property: Doe Farm**



## New Hampshire Natural Heritage Bureau - Plant Record

### Knotty Pondweed (*Potamogeton nodosus*)

#### Legal Status

Federal: Not listed  
State: Listed Endangered

#### Conservation Status

Global: Demonstrably widespread, abundant, and secure  
State: Critically imperiled due to rarity or vulnerability

#### Description at this Location

Conservation Rank: Not ranked  
Comments on Rank: Extent of subpopulation unknown.

Detailed Description: 2004: At Area 3, the size of the subpopulation is unknown. Plant vigor is normal. The subpopulation is producing mature fruit. 1994: At Area 1, no details. No Date: At Area 2, specimen collected.

General Area: 2004: At Area 3, the subpopulation occurs in moderately flowing water in the Lamprey River. Associates include *Potamogeton spirillus* (northern snailseed pondweed), *Sagittaria latifolia* (common arrowhead), *Sparganium americanum* (lesser bur-reed), *Lemna minor* (lesser duckweed), *Pontederia cordata* (pickerel-weed), *Alisma subcordatum* (small water-plantain), *Ceratophyllum demersum* (submerged hornwort), and *Podostemum ceratophyllum* (riverweed). 1994: Area 1 is in a fast-flowing river where rapids occur. Associated species include *Podostemum ceratophyllum* (riverweed), *Ranunculus trichophyllus* (hairy white water-crowfoot), *Potamogeton epihydrus* (surface pondweed), and *P. spirillus* (northern snailseed pondweed). *Toxicodendron radicans* (climbing poison ivy) nearby. No Date: Area 2 is in the river below falls.  
1994: Excellent population. Forest and riverbanks disturbed by human visitations for swimming and fishing.

#### Location

Survey Site Name: Lamprey River at Packers Falls  
Managed By: Packers Falls

County:	Strafford	USGS quad(s):	Newmarket (4307018)
Town(s):	Durham	Lat, Long:	430609N, 0705705W
Size:	22.6 acres	Elevation:	30 feet

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: Area 1: Just downstream (river to the right as facing downstream) of bridge over Lamprey River in Packers Falls along Packers Falls Road. Area 2: Lamprey River below Packers Falls. Area 3: From Little Hook Road, head east on Wiswell Road to the bridge over the Lamprey River. Subpopulation downstream from bridge ca. 0.1 miles on west side of river at the power line crossing.

#### Dates documented

First reported: 1984-PRE                      Last reported: 2004-08-04

Nichols, Bill. 2004. Field survey to Follett's Brook on August 4.

Sperduto, D. & G.E. Crow. 1994. A Vegetation Assessment of the Lamprey River Corridor in Epping, Lee, Durham and Newmarket, New Hampshire. The National Park Service. Boston, MA. 94 pp.