



DEPARTMENT OF ENVIRONMENTAL SERVICES



Thomas S. Burack, Commissioner

August 03, 2015

Her Excellency, Governor Margaret Wood Hassan
and The Honorable Council
State House
Concord, NH 03301

REQUESTED ACTION

Approve NH Fish & Game Department's request to perform the following work on Pine River Pond, in Ossipee. File # 2013-01563. This project will not have significant impact on or adversely affect the values of Pine River Pond.

Impact 3,984 sq. ft. of bank and riverbed to upgrade an existing asphalt and earthen boat ramp by constructing two parallel 12 ft. x 99 ft. boat ramps separated by a 12 ft. x 54 ft. seasonal dock, installing a 6 ft. 6 in. x 10 ft. low abrasion pedestrian launch surface accessed by 6 ft. x 75 ft. box steps in the bank, loaming and seeding the adjacent bank to the north, and impacting a total 798 sq. ft. of wetlands adjacent to the parking lot in two different locations to construct retaining walls and provide access to the ramp and parking within a man-made lagoon on the Pine River, in Ossipee.

The Department imposed the following conditions as part of this approval:

1. All work shall be in accordance with plans by Fay Spofford and Thorndike LLC, dated May 15, 2013, as received by the NH Department of Environmental Services (DES) on June 17, 2013.
2. This permit shall not be effective until it has been recorded with the Carroll County Registry of Deeds office by the Permittee. A copy of the recorded permit shall be submitted to the DES Wetlands Bureau by certified mail, return receipt requested, prior to installation.
3. This permit is contingent on approval by the DES Alteration of Terrain Bureau.
4. Any further alteration of areas on this property that are within the jurisdiction of the DES Wetlands Bureau will require a new application and further permitting by the Bureau.
5. Work shall be done during low flow conditions.
6. Appropriate siltation and erosion controls, including a turbidity curtain, shall be in place prior to construction, shall be maintained during construction, and shall remain until the area is stabilized.
7. Appropriate turbidity controls shall be installed prior to construction, shall be maintained during construction such that no turbidity escapes the immediate dredge area, and shall remain in place until suspended particles have settled and the water at the work site has returned to normal clarity.
8. There shall be no cutting of trees or removal of any stumps from the bank except for the area within which construction of the ramp will take place or the approved Shoreland Water Quality Protection Act permit.

9. The ramp approach shall be crowned so that drainage is directed away from the slope of the ramp.
10. The boat ramp shall be utilized indefinitely as a public access to Pine River and Ossipee Lake and shall not change in use.
11. The seasonal pier shall be removed from the river for the non-boating season.
12. No portion of the pier shall extend more than 54 ft. from the shoreline.
13. All activities shall be in accordance with the Shoreland Water Quality Protection Act, RSA 483-B. The owner is responsible for obtaining any Shoreland Permit that may be required per RSA 483-B, for construction, excavation or fill that will occur within the Protected Shoreland.

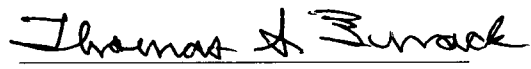
EXPLANATION

The DES Wetlands Bureau approved this project on August 9, 2013. DES supported its decision with the following findings:

1. This is a major impact project per Administrative Rule Env-Wt 303.02(g) removal of more than 20 cubic yards of rock, gravel, sand, mud, or other material from public waters.
2. The need for the proposed impacts has been demonstrated by the applicant per Env-Wt 302.01.
3. The applicant has provided evidence which demonstrates that this proposal is the alternative with the least adverse impact to areas and environments under the department's jurisdiction per Env-Wt 302.03.
4. The applicant has demonstrated by plan and example that each factor listed in Env-Wt 302.04(a), Requirements for Application Evaluation, has been considered in the design of the project.
5. Public hearing is waived with the findings that the project impacts will not significantly impair the resources of the Pine River, that the proposed improvements will provide better safety for those using the ramp, and the improved ramp surface will reduce the transport of sediment from the facility to the Pine River.

Application file documents are being forwarded to the Governor and Executive Council in connection with their consideration of this matter pursuant to RSA 482-A:3,II.(a) as it is a major project in public waters of the state.

We respectfully submit this request for your consideration.


Thomas S. Burack
Commissioner



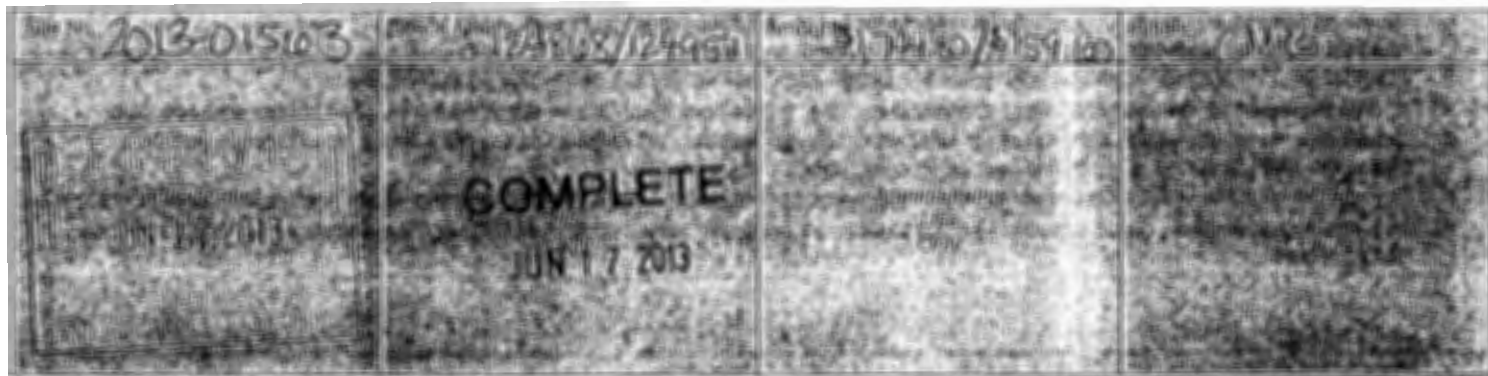
THE STATE OF NEW HAMPSHIRE
 DEPARTMENT OF ENVIRONMENTAL SERVICES
 LAND RESOURCES MANAGEMENT
 WETLANDS BUREAU

29 Hazen Drive, PO Box 95, Concord, NH 03302-0095
 Phone: (603) 271-2147 Fax: (603) 271-6588

Website: <http://des.nh.gov/organization/divisions/water/wetlands/index.htm>
 Permit Application Status: <http://des.nh.gov/onestop/index.htm>



WETLANDS PERMIT APPLICATION



1. **REVIEW TIME:** If you do not know the review time for your project, refer to Attachment A to determine if your project's review time is Standard or Expedited.

Standard Review (Minimum, Minor or Major Impact) Expedited Review (Minimum Impact)

2. **PROJECT LOCATION:** A separate application must be filed with each municipality that jurisdictional impacts will occur in.

ADDRESS: Gravel Access Rd accessed via NH Route 25 TOWN/CITY: Ossipee

TAX MAP: 85 BLOCK: LOT: 6 UNIT:

US GEOLOGICAL SURVEY TOPO MAP WATERBODY NAME: LOCATION COORDINATES (If known): E1124897 N459959
 Pine River Latitude/Longitude UTM State Plane

3. **PROPERTY OWNER** or **APPLICANT INFORMATION** (check all that apply). If the applicant is not the property owner, attach property owner information and written permission from the property owner granting the applicant permission to act on their behalf.

NAME: Glenn Normandeau - Director, State of NH Fish & Game Department

MAILING ADDRESS: 11 Hazen Drive

TOWN/CITY: Concord STATE: NH ZIP CODE: 03301

EMAIL or FAX: Glenn.Normandeau@wildlife.nh.gov PHONE: 603-271-3511

By initialing here, I, hereby authorize DES to communicate all matters relative to this application electronically (RSA 482-A:3, XIV (b) : _____

4. **AGENT INFORMATION:**

NAME: Tracey Tufts COMPANY: Fay Spofford & Thorndike

MAILING ADDRESS: 288 South River Road

TOWN/CITY: Bedford STATE: NH ZIP CODE: 03110

EMAIL or FAX: ttufts@fstinc.com PHONE: 603-250-6419

By initialing here, I, hereby authorize DES to communicate all matters relative to this application electronically (RSA 482-A:3, XIV (b) : *TT*)

* Complete this page last.

5. PROPERTY OWNER / AUTHORIZED APPLICANT / AUTHORIZED AGENT SIGNATURE: A letter of authorization from the property owner/applicant is required if the property owner/applicant does not sign below. Note the property owner permission requirement in no.3 above.

By signing the application, I am certifying that:

1. All abutters have been identified in accordance with RSA 482-A:3, I and Env-Wt 100-900.
2. I have read and provided the required information outlined in Env-Wt 302.04 for the applicable project type.
3. I have read and understand Env-Wt 302.03 and have chosen the least impacting alternative.
4. Any structure that I am proposing to repair/replace was either previously permitted by the Wetlands Bureau or would be considered grandfathered per Env-Wt 101.44.
5. I have submitted a copy of the application materials to the NH State Historic Preservation Officer.
Link: <http://www.nh.gov/nhdhr/review/> (Copy link to your web browser)
6. I authorize DES and the municipal conservation commission to inspect the site of the proposed project.
7. I have reviewed the information being submitted and that to the best of my knowledge the information is true and accurate.
8. I understand that the willful submission of falsified or misrepresented information to the New Hampshire Department of Environmental Services is a criminal act, which may result in legal action.
9. I am aware that the work I am proposing may require additional state, local or federal permits which I am responsible for obtaining.
10. The mailing addresses I have provided are up to date and appropriate for receipt of DES correspondence. DES will not forward returned mail.

Tracey Tufts

TRACEY TUFTS

6/12/13

Property Owner/ Applicant Authorized Agent

Print name legibly

Date

APPLICATION SUBMITTAL DIRECTIONS:

1. The Conservation Commission signature is ONLY required for Expedited Review; Standard Review applications do NOT require the Conservation Commission's signature;
2. Submit the original application form and materials, four copies, application fee and any required municipal fees (authorized by RSA 482-A:3,I) to the town/city clerk for the **REQUIRED town /city clerk's** signature and mailing via certified mail to DES. Municipal fees means an administrative fee not to exceed \$10 plus the cost of postage by certified mail.

6. This section is to be completed by the Town/City Clerk

As required by Chapter 482-A:3 (amended 1991), I hereby certify that the applicant has filed five application forms, five detailed plans, and five USGS location maps with the town/city indicated below and I have received and retained certified postal receipts (or copies) for all abutters identified by the applicant.

Patricia A Hodge

PATRICIA A Hodge

6/14/13

Ossipee

Town/City Clerk

Print name legibly

Date

Town/City

TOWN CLERK SUBMITTAL & MAILING DIRECTIONS:

Per RSA 482-A:3,I(d):

1. For applications where "Expedited Review" is checked on page 1, only accept the application if the Conservation Commission's signature has been obtained (Standard Review Applications do NOT require the Conservation Commission's signature);
2. Collect from the applicant the postal receipts demonstrating that all abutters and the Local Advisory Committee were sent proper notice;
3. Collect any administrative fees, not to exceed \$10 plus the cost of postage by certified mail (RSA 482-A:3,I).
4. Immediately sign the original application and four copies in the signature space provided in the space above;
5. Retain one copy of the application form and all attachments that will remain with the town/city clerk and will be made reasonably accessible to the public;
6. Immediately distribute a copy of the application with attachments to the municipal Conservation Commission, the local governing body (Board of Selectmen or Town/City Council), and the Planning Board in accordance with RSA 482-A:3, I; and
7. **IMMEDIATELY** send (DO NOT HOLD FOR OTHER MUNICIPAL REVIEWS) the original application materials and filing fee, by **CERTIFIED MAIL** to the NHDES Wetlands Bureau at the address indicated on the front of this application.

7. CONSERVATION COMMISSION SIGNATURE FOR EXPEDITED REVIEW ONLY:

ONLY Expedited Review applications require that the Conservation Commission signature is obtained prior to submittal the final application to the Town/City Clerk for signature and mailing to the NHDES Wetlands Bureau. The Conservation Commission may refuse to sign. If the Conservation Commission does not sign this statement for any reason, then the application is not eligible for expedited review and the "Standard Review" box should be checked on page 1. The application shall be reviewed in the standard review time.

The signature below certifies that the municipal conservation commission has reviewed this application, and: 1) waives its right to intervene per RSA 482-A:11; 2) believes that the application and submitted plans accurately represent the proposed project; and 3) has no objection to permitting the proposed work.

Authorized Commission Signature

Print name legibly

Date

10. APPLICATION REQUIREMENTS CONTINUED

- I. Attach the application fee, check or money order payable to: "**Treasurer-State of NH**" (RSA 482-A:3,I & Env-Wt 505.01(c))
- Minimum Impact (Standard & Expedited Review): Flat fee of \$ 200 **OR**
 - Minor or Major Impact (Standard Review): Complete the minor & major application fee table below.

MINOR & MAJOR APPLICATION FEE:			
Permanent impacts (non-docking):	4782 sq. ft.	X \$0.20 =	\$956.40
Temporary impacts (non-docking):	sq. ft.	X \$ 0.20 =	
Temporary (seasonal) docking structure:	556 sq. ft.	X \$1.00 =	\$556.00
Permanent docking structure:	96 sq. ft.	X \$2.00 =	\$192.00
Projects proposing shoreline structures add \$200 =			\$200.00
Total =			\$1904.40
The Application Fee is the above calculated Total or \$200, whichever is greater =			\$1904.40

- J.1. Legible copy or tracing of the tax map from the municipal office (Env-Wt 501.02(a)(1)& 505.01(e)).
2. Confirm the submitted tax map illustrates the property of the applicant, the location of the proposed project on the property, and the location of properties of abutters (defined Env-Wt 101.03) with each lot labeled with the abutter's name(s) and mailing address(es); or provide a list of abutters' names and mailing addresses to cross-reference with the tax map (Env-Wt 501.02(a)(1)& 505.01(f))
- Abutter Notification Exceptions see Env-Wt 501.01(c).
 - If jurisdictional impacts occur within 20 feet of an abutting property line or imaginary extension thereof over surface water signed permission letter(s) from the affected abutters must be included with this application (Env-Wt 304.04). This letter must be notarized if your project is a boat docking facility (RSA 482-A:3-XIII(c)). Notarized abutter permission is not required for maintenance projects.
- K. Need, Avoidance & Questions:
- Minimum: 1. Attach a statement demonstrating need for the proposed project (Env-Wt 302.03); and
2. Attach a statement demonstrating that the proposal is the alternative with the least adverse impact to areas and environments under the department's jurisdiction. (Env-Wt 302.03 & 505.01(d)&(y)); **OR**
 - Minor & Major: Attach a response to questions outlined in Wetland Rule Env-Wt 302.04(a)
- L. Minor & Major Impact Projects ONLY: Does the project require compensatory mitigation pursuant to Env-Wt 302.03?
- Y N **If yes:** Attach a completed Mitigation Agreement Form and materials outlined on the form (Env-Wt 501.02(a)(6) & 501.06)
Link: http://des.nh.gov/organization/commissioner/pip/forms/wetlands/documents/mitigation_form.doc

8. RELATED FILES/APPROVALS: If applicable, indicate files and approvals that are related to the proposed project or project site. Link to all NHDES Programs, Bureaus and Units: <http://des.nh.gov/programs/index.htm> (Copy link to your web browser)

Wetlands Bureau enforcement, emergency authorizations: _____

Wetlands Bureau approvals, denials: _____

Shoreland/ Alteration of Terrain/ Subsurface: **Shoreland-Filed 6/4/13 (No File# Yet), AoT-Pending Submittal**

Other: _____

9. PROJECT DESCRIPTION: Provide a brief description of the project, outlining the scope of work to be performed, including the area of impact (square feet) of permanent impacts, temporary impacts (impacts that are not intended to remain after the project is completed), and after-the-fact impacts (work completed prior to receipt of this application by DES) to each jurisdictional area that will be impacted (wetlands, streams, rivers, lakes/ponds, prime wetland/buffer, tidal waters, salt marsh, sand dune, [upland] tidal buffer zone & docking structures). Docking structures provide the square footage of seasonal docking structures and permanent docking structures. **Please provide only a brief project description as instructed above and attach additional sheets to provide other information requirements, but DO NOT reply "See Attached" in the space provided below.**

The planned improvements for the facility include the following:

- Reconstruction of the gravel access road and parking lot to provide 30 trailered and 5 cartop parking spaces, including one each trailered and cartop handicap accessible spaces.
- Construction of a double precast concrete plank boat ramp with removable floating dock system.
- Construction of a timber-terraced gravel footpath leading to a new stabilized low-abrasion launching/pedestrian surface to facilitate cartop boat access.
- Construction of a bioretention stormwater treatment island to capture parking lot runoff.
- Permeable aggregate filled paving grids in parking lot areas.
- Slope re-vegetation of the northern embankment through with native plantings and seed mixes.

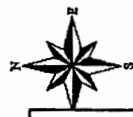
The permanent wetland impacts associated with the project consist of dredging approximately 3528 sf of surface water and 456 sf of bank for construction of the boat ramp and low abrasion launching/pedestrian surface. In addition, approximately 798 sf of wetlands will be impacted for slope work and construction of a retaining wall. There will also be 556 sf of seasonal docking structure and 96 sf of permanent docking structure.

10. APPLICATION REQUIREMENTS: *This application will be returned to you if items outlined in A - J.1 are not provided.* If applicable items outlined in J.2 - L are not provided, you may receive a letter requesting the outstanding information. Please note that a DES request letter is a courtesy and applications that do not include the required information may be denied. Copy links to your web browser.

- A. 1. Is the project within a ¼ mile of a designated river? Y N
Designated river list and map link: <http://des.nh.gov/organization/divisions/water/wmb/rivers/desigriv.htm>
2. If yes: Indicate river: _____
3. As required by RSA 482-A:3,1(d)(2), I have notified the Local River Advisory Committee (LAC) by sending a copy of the complete application and supporting materials via certified mail on: Month: ___ Day: ___ Year: ___
LAC link: <http://des.nh.gov/organization/divisions/water/wmb/rivers/lac/index.htm>
- B. Property Owner or Authorized Applicant/Agent and Town/City Clerk signatures, no.'s 5 & 6 on pg. 2 of this form (Env-Wt 501.02(a) & 505.01(i))
- C. Narrative of the project description, no. 9 above (Env-Wt 501.02(a) & 505.01(i))
- D. Documentation from the Department of Resources and Economic Development's Natural Heritage Bureau (NHB) indicating that NHB has reviewed your project. Documentation can be obtained online at: https://www2.des.state.nh.us/nhb_datacheck/ or by phone (603) 271-2215 x 323. Please attach the REQUIRED letter/memo and map provided by NHB.
- E. A copy of a U. S. Geological Survey topographic map upon which the property lines and project limits have been outlined (surveyed property boundaries not required). The map must be at an unaltered scale of 1:24,000 or 1" = 2,000 feet (1:25,000 metric map). (Env-Wt 501.02(a)(4) & 505.01(g))
Topographic Map Links: <http://des.nh.gov/organization/divisions/water/wetlands/categories/technical.htm>
- F. Attach legible and labeled color photographs clearly depicting the jurisdictional areas to be impacted, the resource outside of impact area, any shoreline structures and culvert inlet/outlets (Env-Wt 501.02(a)(3) & 505.01(i))
- G. Attach drawing(s)/plan(s) (including a construction sequence) showing additional data requirements listed in Env-Wt 501.02(a)(2) & 505.01(h). See no. 11 on pg.'s 4 & 5 for drawing/plan requirements.
- H. Attach a completed U.S. Army Corps of Engineers New Hampshire Programmatic General Permit (PGP) Appendix B – Required Information and Corps Secondary Impact Checklist: http://www.nae.usace.army.mil/Regulatory/SGP/NH_PGP.pdf (scroll to page 29 of 34 to reach Appendix B).

RECEIVED
JUN 17 2013
X-265
LAND RESOURCE MANAGEMENT

PROJECT LOCATION
TAX MAP 85, PARCEL 6



Project parcel (2.88 ac) lies entirely within the much larger parcel 6. Refer to Transfer of Land Management Responsibility.

Pine River - Tax Map
Ossipee, NH
1 Inch = 2000 Feet
April 08, 2013

Data shown on this map is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this map.

www.cai-tech.com



Pine River - Ossipee, NH

71°09.200' W

71°08.600' W

71°08.000' W

71°07.400' W

WGS84 71°06.600' W

43°46.600' N

43°46.200' N

43°45.800' N

43°45.400' N

43°45.000' N

43°44.400' N

43°46.600' N

43°46.200' N

43°45.800' N

43°45.400' N

43°45.000' N

43°44.400' N

Handwritten signature



71°09.200' W

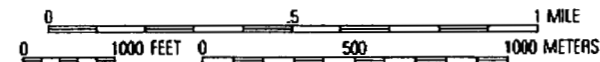
71°08.600' W

71°08.000' W

71°07.400' W

WGS84 71°06.600' W

RECEIVED
JUN 17 2013
NHDES
LAND RESOURCES MANAGEMENT



Map created with TOPO!® ©2003 National Geographic (www.nationalgeographic.com/topo)

Scale: 1:24,000
Date: 9/12/12

Memo



NH NATURAL HERITAGE BUREAU
NHB DATACHECK RESULTS LETTER

To: Tracey Tufts, Fay, Spofford & Thorndike
288 South River Road
Bedford, NH 03110

From: Melissa Coppola, NH Natural Heritage Bureau

Date: 10/3/2012 (valid for one year from this date)

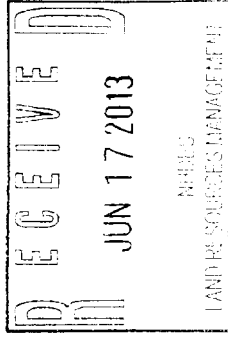
Re: Review by NH Natural Heritage Bureau

NHB File ID: NHB12-2537

Town: Ossipee

Description: The site is located off of Rte 25 at an existing public boat access facility. The boat launch is on an engineered channel that connects to the main branch of the Pine River just upstream of the Rte 25 bridge over the river. Improvements include reconstruction of the gravel access road and parking lot to provide 3 trailers and 5 cartop spaces, construction of dual 12-ft wide precast concrete plank boat ramps with an 8-ft removable floating dock, construction of a timber-terrace gravel footpath leading to a new stabilized low-abrasion launching/pedestrian surface to facilitate cartop boat access, and removal of the existing docks. Also included is construction of a bioretention stormwater treatment island in the parking lot and slope stabilization of the northern embankment through revegetation with native plantings and seed mixes.

Location: Tax Maps: Tax Map 85, Lot 6



As requested, I have searched our database for records of rare species and exemplary natural communities, with the following results.

Comments: Please send site plans to NHB for further review. Sending the requested information may help to dismiss concerns. Send requested information to: mcoppola@dred.state.nh.us

Natural Community

	State ¹	Federal	Notes
Highbush blueberry - mountain holly wooded fen	--	--	Threats to this community include changes to hydrology and runoff from nearby impervious surface.
lake sedge seepage marsh	--	--	Threats include changes to hydrology and pollutants from surface runoff.
Low-gradient silty-sandy riverbank system	--	--	Threats to this natural community are changes in the river's hydrology, human disturbance of the riverbank (such as bulldozer activity), and increased nutrient levels from upland runoff.
short graminoid - forb meadow marsh/mudflat	--	--	Threats to these communities are primarily alterations to the hydrology of the wetland and increased input of nutrients and pollutants in storm runoff.
Silver maple - false nettle - sensitive fern floodplain forest	--	--	Threats are primarily changes to the hydrology of the river, land conversion and fragmentation, introduction of invasive species, and increased input of nutrients and pollutants.
Temperate minor river floodplain system	--	--	Threats are primarily changes to the hydrology of the river, land conversion and fragmentation, introduction of invasive species, and increased input of nutrients and

Department of Resources and Economic Development
Division of Forests and Lands
(603) 271-2214 fax: 271-6488

DRED/NHB
PO Box 1856
Concord NH 03302-1856

Memo



NH NATURAL HERITAGE BUREAU
NHB DATACHECK RESULTS LETTER

pollutants.

Codes: "E" = Endangered, "T" = Threatened, "-" = an exemplary natural community, or a rare species tracked by NH Natural Heritage that has not yet been added to the official state list. An asterisk (*) indicates that the most recent report for that occurrence was more than 20 years ago.

A negative result (no record in our database) does not mean that a sensitive species is not 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.



Department of Resources and Economic Development
Division of Forests and Lands
(603) 271-2214 fax: 271-6488

DRED/NHB
PO Box 1856
Concord NH 03302-1856

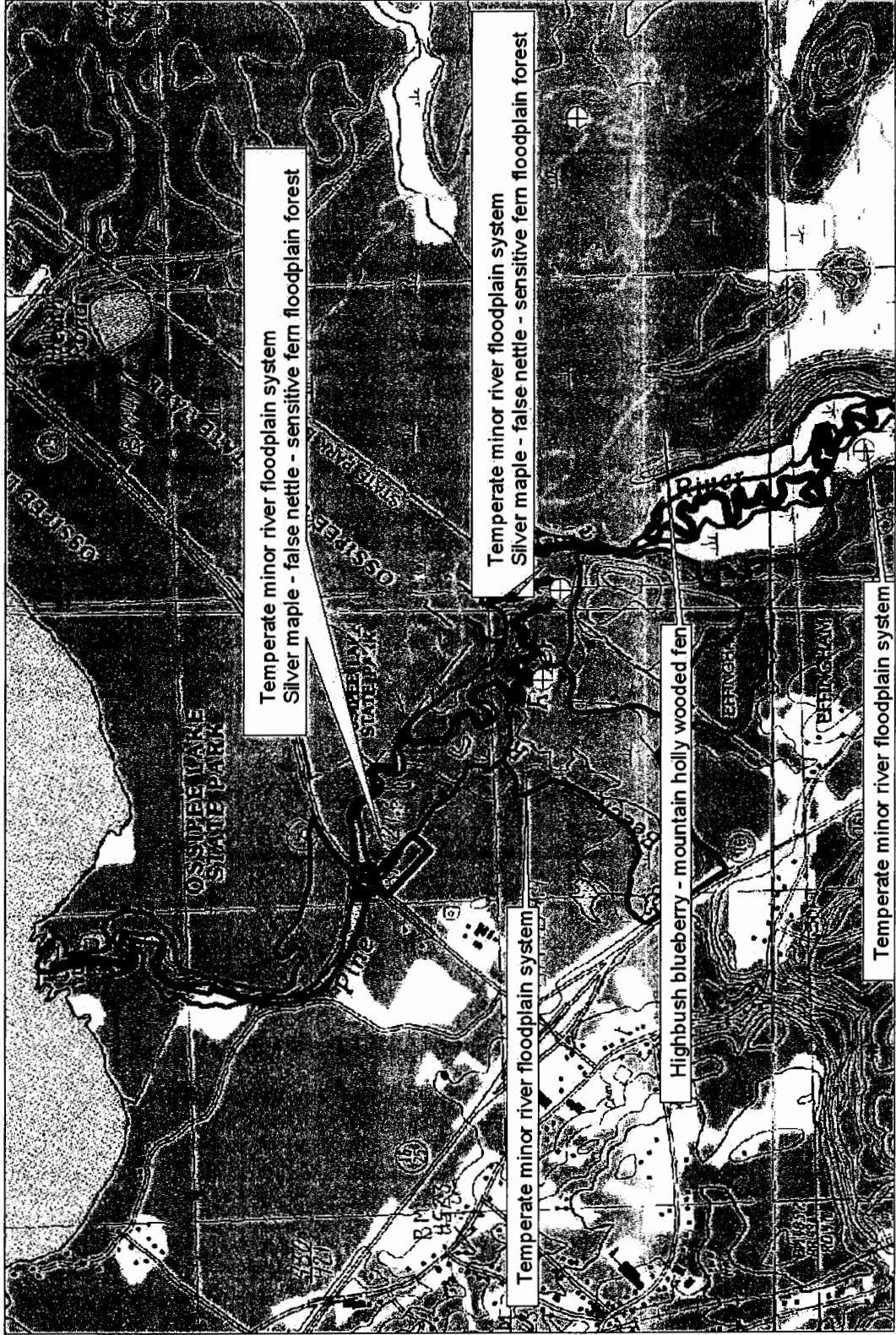
NHB12-2537



NH NATURAL HERITAGE BUREAU

Known locations of rare species and exemplary natural communities

Note: Mapped locations are not always exact. Occurrences that are not in the vicinity of the project are not shown.



*Historical record

New Hampshire Natural Heritage Bureau - Community Record

Highbush blueberry - mountain holly wooded fen**Legal Status**

Federal: Not listed
State: Not listed

Conservation Status

Global: Not ranked (need more information)
State: Rare or uncommon

Description at this Location

Conservation Rank: Excellent quality, condition and landscape context ('A' on a scale of A-D).
Comments on Rank:

Detailed Description: 2010: This large wooded fen is characterized by a scattered to sparsely-wooded canopy of pitch pine (*Pinus rigida*) with lesser amounts of eastern larch (*Larix laricina*), black spruce (*Picea mariana*), and white pine (*Pinus strobus*). The well developed shrub layer supports mountain holly (*Nemopanthus mucronatus*), rhodora (*Rhododendron canadense*), black blueberry (*Vaccinium fuscatum*), leatherleaf (*Chamaedaphne calyculata*), sheep laurel (*Kalmia angustifolia*), and lesser amounts of witherod (*Viburnum nudum* var. *cassinoides*), winterberry (*Ilex verticillata*), male berry (*Lyonia ligustrina*), bog laurel (*Kalmia polifolia*), black chokeberry (*Photinia melanocarpa*), and others. Herbs are sparse and include Billing's sedge (*Carex trisperma* var. *billingsii*), tawny cotton-grass (*Eriophorum virginicum*), Virginia chain fern (*Woodwardia virginica*), cinnamon fern (*Osmunda cinnamomea*). Sphagnum moss is abundant, carpeting the hummocks and hollows. 1998: Characterized by a greater abundance of tall shrubs (such as mountain holly (*Nemopanthus mucronatus*)) and denser tree canopy compared to the dwarf heath shrub bog.

General Area: 2010: The wooded fen occurs within an exemplary **poor level fen/bog system** on outwash deposits associated with Pine River. An exemplary **kettle hole bog system** borders the wooded fen on its northern margin. Dry upland soils north-east of the wooded fen support **mixed pine - red oak woodland**. This woodland was recently heavily logged (~2008-2009) to within 150 meters of the fen. Additional recent cutting has occurred immediately adjacent to the wooded fen's southern and south-eastern edge. Other upland forest types adjacent to the peatland include dry **hemlock - beech - oak - pine forest**.

General Comments:
Management
Comments:

Location

Survey Site Name: Pine River, east of
Managed By: Heath Pond Bog Natural Area

County: Carroll USGS quad(s): Freedom (4307171)
Town(s): Effingham Lat, Long: 434520N, 0710617W
Size: 418.6 acres Elevation:

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

Directions: 1998: This giant peatland can be entered from many directions and locations. It is bounded by Rte. 25 and Heath Pond Bog on the NW and north sides, the uplands just west of Green Mtn. Rd. to the east, and the Pine River on the west and south sides. The **highbush blueberry - mountain holly wooded fen** covers about 160 acres in the central and southern portions of the peatland. Perhaps the easiest access is from the east along dirt roads maintained by Green Mtn. Kennels off Green Mtn. Rd. (a right-of-way through this property is owned by the state). To get here take Elm St. east from its junction with Rte. 16 (just north of Rte. 28 junction). Go north ca. 0.6 miles to Green Mtn. Kennels. Take this road past office (get permission here) past a couple of bends and small side tracks to a more well defined dirt road on the left (ca. 0.33 mile from the office). This road leads across the sandy upland to the eastern-most arm of the peatland. From here the road leads across two upland esker/kame islands (between two other north-south peatland arms). The first esker/kame formation is

cut over and riddled with dirt tracks for hunting and shooting. Beyond the second esker and third peatland arm the road ends on a final esker (nearly one mile long) perched on the east side of the Pine River (called Pidgeon Ridge by the old-timers).

Dates documented

First reported: 1998-07-16 Last reported: 2010-09-07

Bill Nichols. 2010. Field survey to Pine River, East of on August 20.

Sperduto, Daniel and William F. Nichols. 2000. Exemplary Bogs and Fens of New Hampshire. Prepared by NH Natural Heritage Inventory for the U.S. Environmental Protection Agency. Concord, NH.

New Hampshire Natural Heritage Bureau - Community Record

lake sedge seepage marsh

Legal Status

Federal: Not listed
 State: Not listed

Conservation Status

Global: Not ranked (need more information)
 State: Rare or uncommon

Description at this Location

Conservation Rank: Good quality, condition and landscape context ('B' on a scale of A-D).
 Comments on Rank:

Detailed Description: 2010: Lake sedge (*Carex lacustris*) and royal fern (*Osmunda regalis* var. *spectabilis*) are dominant. Common associates are sensitive fern (*Onoclea sensibilis*), smooth goldenrod (*Solidago gigantea*), marsh fern (*Thelypteris palustris* var. *pubescens*), swamp candles (*Lysimachia terrestris*), New York aster (*Symphotrichum novi-belgii*), and tussock sedge (*Carex stricta*). Scattered shrubs include meadowsweet (*Spiraea alba* var. *latifolia*), sweet gale (*Myrica gale*), and lesser amounts of steeplebush (*Spiraea tomentosa*) and red maple (*Acer rubrum*) seedlings.

General Area: 2010: This marsh occurs within an exemplary **temperate minor river floodplain system**. Other exemplary communities in this system are **tall graminoid meadow marsh** and **silver maple - false nettle - sensitive fern floodplain forest**. Much of floodplain system's eastern border is adjacent to an exemplary **poor level fen/bog system** and an exemplary **mixed pine - red oak woodland** on an esker. There occurs along Pine River itself an exemplary **low-gradient silty-sandy riverbank system**, supporting an exemplary **short graminoid - forb meadow marsh/mudflat**.

General Comments:
 Management
 Comments:

Location

Survey Site Name: Pine River
 Managed By: Heath Pond Bog Natural Area

County: Carroll
 Town(s): Ossipee
 Size: 1.3 acres

USGS quad(s): Ossipee Lake (4307172)
 Lat, Long: 434524N, 0710738W
 Elevation:

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

Directions: 2010: Accessed through Pine River Road (trail heads into Heath Pond Bog Natural Area at west end of Pine River Road by Rte. 16). Occurs in a cove adjacent to [west of] the Pine River.

Dates documented

First reported: 2010-08-19 Last reported: 2010-08-19

Bill Nichols. 2010. Field survey to Pine River on August 19.

New Hampshire Natural Heritage Bureau - System Record

Low-gradient silty-sandy riverbank system

Legal Status

Federal: Not listed
State: Not listed

Conservation Status

Global: Not ranked (need more information)
State: Rare or uncommon

Description at this Location

Conservation Rank: Excellent quality, condition and landscape context ('A' on a scale of A-D).
Comments on Rank:

Detailed Description: 2010: Occurs on the low riverbank of Pine River. Supports at least three natural communities. Within the system, the *short graminoid - forb meadow marsh/mudflat* is exemplary itself.

General Area: 2010: This system is immediately adjacent to the following exemplary communities and systems: *temperate minor river floodplain system, silver maple - false nettle - sensitive fern floodplain forest, tall graminoid meadow marsh*, and *lake sedge seepage marsh*. Just beyond these EOs, much of floodplain's eastern border is adjacent to an exemplary **poor level fen/bog system** and an exemplary *mixed pine - red oak woodland* on an esker.

General Comments:
Management
Comments:

Location

Survey Site Name: Pine River
Managed By: Ossipee Lake Natural Area

County: Carroll
Town(s): Effingham
Size: 38.4 acres

USGS quad(s): Ossipee (4307161)
Lat, Long: 434522N, 0710725W
Elevation:

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

Directions: 2010: Accessed through Green Mountain Shooting Preserve on Green Mountain Road (speak with owner Dave Bardzik; 539-2106), Rte. 25, Pine River Road (trail heads into Heath Pond Bog Natural Area at west end of Pine River Road by Rte. 16), and Elm Street.

Dates documented

First reported: 2010-08-19
Last reported: 2010-08-20

Bill Nichols. 2010. Field survey to Pine River on August 19.

New Hampshire Natural Heritage Bureau - Community Record

short graminoid - forb meadow marsh/mudflat

Legal Status

Federal: Not listed
State: Not listed

Conservation Status

Global: Not ranked (need more information)
State: Apparently secure but with cause for concern

Description at this Location

Conservation Rank: Excellent quality, condition and landscape context ('A' on a scale of A-D).
Comments on Rank:

Detailed Description: 2010: Occurs on the low riverbank of Pine River. Mild water pepper (*Pericaria hydropiperoides*) dominates the exposed low riverbanks (cover 50-80%). Associates with a cover of 1% are three-way sedge (*Dulichium arundinaceum*) and common arrowhead (*Sagittaria latifolia*). Bluejoint (*Calamagrostis canadensis*) and Virginia cutgrass (*Leersia virginica*) occur with a cover of <1%.

General Area: 2010: Occurs within an exemplary **low-gradient silty-sandy riverbank system**. This system also supports *mesic herbaceous river channel* and *aquatic bed*. The following exemplary communities and systems occur immediately adjacent to the **short graminoid - forb meadow marsh/mudflat** on the floodplain: **temperate minor river floodplain system, silver maple - false nettle - sensitive fern floodplain forest, tall graminoid meadow marsh, and lake sedge seepage marsh**. Just beyond these, much of the floodplain's eastern border is adjacent to an exemplary **poor level fen/bog system** and an exemplary **mixed pine - red oak woodland** on an esker.

General Comments:
Management
Comments:

Location

Survey Site Name: Pine River
Managed By: Ossipee Lake Natural Area

County: Carroll
Town(s): Effingham
Size: 38.4 acres

USGS quad(s): Ossipee (4307161)
Lat, Long: 434522N, 0710725W
Elevation:

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

Directions: 2010: Accessed through Green Mountain Shooting Preserve on Green Mountain Road (speak with owner Dave Bardzik; 539-2106), Rte. 25, Pine River Road (trail heads into Heath Pond Bog Natural Area at west end of Pine River Road by Rte. 16), and Elm Street.

Dates documented

First reported: 2010-08-19
Last reported: 2010-08-20

Bill Nichols. 2010. Field survey to Pine River on August 19.

New Hampshire Natural Heritage Bureau - Community Record

Silver maple - false nettle - sensitive fern floodplain forest

Legal Status

Federal: Not listed
State: Not listed

Conservation Status

Global: Not ranked (need more information)
State: Imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank: Good quality, condition and landscape context ('B' on a scale of A-D).
Comments on Rank:

Detailed Description: 2010: An extensive, open-canopy floodplain forest. Silver maple (*Acer saccharinum*) is the most frequent canopy species (20-30% cover). Red maple (*Acer rubrum*) is less frequent (5% cover). In swamplier settings away from the river channel, red maple may dominate. Shrub layer is moderately developed with red osier dogwood (*Cornus sericea*), smooth alder (*Alnus serrulata*), and meadowsweet (*Spiraea alba* var. *latifolia*) most frequent. The herb layer is well developed and dominated by bluejoint (*Calamagrostis Canadensis*; 30% cover). Sensitive fern (*Onoclea sensibilis*) and royal fern (*Osmunda regalis* var. *spectabilis*) are common associates. Several other species occur with a cover of 1% or less.

General Area: 2010: This floodplain forest occurs within an exemplary **temperate minor river floodplain system**. Other exemplary communities in this system are **lake sedge seepage marsh** and **tall graminoid meadow marsh**. Much of floodplain system's eastern border is adjacent to an exemplary **poor level fen/bog system** and an exemplary **mixed pine - red oak woodland** on an esker. There occurs along Pine River itself an exemplary **low-gradient silty-sandy riverbank system**, supporting an exemplary **short graminoid - forb meadow marsh/mudflat**.

General Comments:
Management
Comments:

Location

Survey Site Name: Pine River
Managed By: Ossipee Lake Natural Area

County: Carroll USGS quad(s): Ossipee (4307161)
Town(s): Effingham Lat, Long: 434440N, 0710614W
Size: 216.5 acres Elevation:

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

Directions: 2010: Accessed through Green Mountain Shooting Preserve on Green Mountain Road (speak with owner Dave Bardzik; 539-2106), Rte. 25, and Pine River Road (trail heads into Heath Pond Bog Natural Area at west end of Pine River Road by Rte. 16).

Dates documented

First reported: 2010-08-19 Last reported: 2010-09-08

Bill Nichols. 2010. Field survey to Pine River on August 19.

New Hampshire Natural Heritage Bureau - System Record

Temperate minor river floodplain system

Legal Status

Federal: Not listed
State: Not listed

Conservation Status

Global: Not ranked (need more information)
State: Rare or uncommon

Description at this Location

Conservation Rank: Excellent quality, condition and landscape context ('A' on a scale of A-D).
Comments on Rank: 1998: AB.

Detailed Description: 2010: An extensive and complex system along Pine River. Supports at least 12 natural communities. Within the system, the *silver maple - false nettle - sensitive fern floodplain forest*, *lake sedge seepage marsh*, and the *tall graminoid meadow marsh* are exemplary themselves (9/8). Sub-area 2: System observed and photographed (5/5). 1998: Sub-area 1: At Observation Point (OP) 1 there is a broken *Acer rubrum* (red maple) and *Acer saccharinum* (silver maple) canopy with thick *Cornus sericea* (red osier dogwood), *Spiraea alba* var. *latifolia* (eastern meadow-sweet), six foot tall *Osmunda regalis* var. *spectabilis* (royal fern), and graminoids seven to ten feet tall. Tree canopies shade the ground completely, but tree dominance is patchy, within a thicket matrix. Ground level is swampy, with hummocks and wet hollows. Stumps and fallen logs create hummocks. At OP 2 red maple, *Betula populifolia* (gray birch), and royal fern are dominant species, with several *Fraxinus nigra* (black ash) in the canopy. This medium/low terrace has the character of a red maple-black ash swamp. Cut stumps, gray birch, and even age of smaller canopy trees hint at recent human disturbance. Microtopography is rolling, and higher and drier soils support oak, white pine, and *hemlock forests*. This appears to be a young, developing *red maple floodplain forest*. Sub-area 2: OPs 3-6 include a broad swath of higher terrace red maple-oak-pine floodplain forest that hugs the eastern riverbank between the river and the extensive peatland to the east. This area has a meander scroll microtopography, with the lowest sloughs higher than the river level. OPs 3 and 6 were a series of low terrace ridges surrounded by a buttonbush swampy area, while OP 5 is a higher terrace floodplain forest with red maple, red oak, white pine in the canopy, *Osmunda cinnamomea* (cinnamon fern), and royal fern in the understory, with sparse cover of upland herbs such as *Maianthemum canadense* (Canada mayflower), and *Uvularia sessilifolia* (sessile-leaved bellwort). Overall, soils appear acidic, and the water table seems to be closely tied to Ossipee Lake level.

General Area: 2010: System extent: Much of floodplain's eastern border is adjacent to an exemplary **poor level fen/bog system** and an exemplary *mixed pine - red oak woodland* on an esker. There occurs along Pine River itself an exemplary **low-gradient silty-sandy riverbank system**. Sub-area 2: Bordered by an exemplary **medium level fen system** on both sides near the mouth of the river. 1998: Sub-areas 1 and 2: Several wells for the Ossipee water supply occur within medium and high terrace floodplains. Recent roads to service a pumping station and a boat access encroach on some of the floodplain area. Otherwise, the land is protected as a state park. Several rare plants and exemplary natural communities occur along the lakeshore at the mouth of the Pine River where it drains into Ossipee Lake.

General Comments: 1998: Preliminary description, may deserve more inventory upstream. This may be a unique floodplain due to its close association with nearby peatlands.

Management Comments: 1998: Land is mostly protected within Ossipee Lake State Park, but well activities, recent dirt roads and boat access may open the area for more human disturbance and edge. Monitor the encroachment of edge and/or invasive species over time.

Location

Survey Site Name: Pine River
Managed By: Heath Pond Bog Natural Area

County: Carroll
Town(s): Effingham

USGS quad(s): Ossipee Lake (4307172)
Lat, Long: 434450N, 0710706W

Size: 392.3 acres Elevation: 410 feet

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

Directions: 2010: Accessed through Green Mountain Shooting Preserve on Green Mountain Road (speak with owner Dave Bardzik; 539-2106), Rte. 25, Pine River Road (trail heads into Heath Pond Bog Natural Area at west end of Pine River Road by Rte. 16), and Elm Street. 1998: From Rte. 16 in Ossipee, take Rte. 25 east about 0.5 miles. Park at boat access just west of bridge over Pine River. [Sub-area 1] is east of Rte. 25 and west of the river. [Sub-area 2] is west of Rte. 25 and (mostly) east of the river.

Dates documented

First reported: 1998-07-30 Last reported: 2010-09-08

Kimball, Ben, Melissa Coppola, and Don Kent. 2010. Field survey to Ossipee Lake Natural Area on May 5.

Nichols, William F., Daniel D. Sperduto, Douglas A. Bechtel, and Katherine F. Crowley. 2000. Floodplain Forest Natural Communities along Minor Rivers and Large Streams in New Hampshire. Prepared by NH Natural Heritage. Concord, NH.



NEW HAMPSHIRE NATURAL HERITAGE BUREAU

DRED - DIVISION OF FORESTS & LANDS

PO Box 1856 -- 172 PEMBROKE ROAD, CONCORD, NH 03302-1856

(603) 271-2214

To: Tracey Tufts, Fay, Spofford & Thorndike
From: Melissa Coppola, NHB-Environmental Information Specialist
Date: November 14, 2012
Subject: NHB12-2537

This memo is a follow-up to NHB12-2537 which had indicated six exemplary natural communities/systems near the proposed project. The Natural Heritage Bureau (NHB) requested further details about the project to determine the potential for impacts.

Based on the information provided (site plans and project narrative) there is 925 sq. feet of impact to the exemplary *silver maple - false nettle - sensitive fern floodplain forest* that directly abuts the project area. This exemplary wetland is referred to as "wetland one" on site plans. Impacts could be completely avoided if that section of parking lot was shifted slightly southwest. NHB recommends that this step be taken to avoid unnecessary impacts to the surrounding exemplary floodplain forest.

Should you have any further questions, contact me at 603-271-2215 ext. 323 or at Melissa.Coppola@dred.state.nh.us.



O' Abutters List Report

Town of Ossipee, NH
April 08, 2013

Subject Property:

Parcel Number: 085-006-000
CAMA Number: 085-006-000-0000
Property Address: 70 ROUTE 25 EAST

Mailing Address: NEW HAMPSHIRE, STATE OF LAND
CONSERVATION INVSTMNT
PO BOX 1856
CONCORD, NH 03302

Abutters:

Parcel Number: 085-007-000
CAMA Number: 085-007-000-0000
Property Address: 60 ROUTE 25 EAST

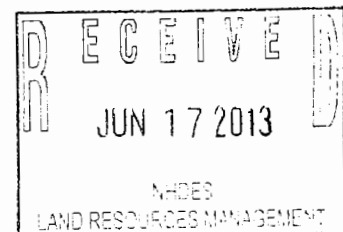
Mailing Address: NEW HAMPSHIRE, STATE OF DEPT OF
RESOURCES & ECO DEV
PO BOX 1856 172 PEMBROKE RD
CONCORD, NH 03302

Parcel Number: 086-025-000
CAMA Number: 086-025-000-0000
Property Address: 50 ROUTE 25 EAST

Mailing Address: SKEHAN, JAMES & ANN TRUST
SKEHAN, JAMES P & ANN I, TTEE
[REDACTED]
CTR OSSIPEE, NH 03814

Parcel Number: 086-026-000
CAMA Number: 086-026-000-0000
Property Address: 20 ROUTE 25 EAST

Mailing Address: 205 REALTY CO, LLC
PO BOX 8552
CORAL SPRINGS, FL 33075



www.cai-tech.com

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