PUBLIC UNDEVELOPED LAND ASSESSMENT
COMPREHENSIVE BASELINE INVENTORY
AND
NATURAL RESOURCE INVENTORY

Prepared for:
City of Portsmouth Conservation Commission
1 Junkins Avenue
Portsmouth, NH 03801

Prepared by:
WEST ENVIRONMENTAL INC.
122 Mast Road, Suite 6, Lee, NH 03861
603-659-0416 ♦ Fax 603-659-0418 ♦ mark@westenv.net

In cooperation with
Neatline Associates

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1. INTRODUCTION AND PURPOSE

The goal of this project is to provide the City of Portsmouth Conservation Commission and Planning Department the mapping and information needed to make long-term management decisions on undeveloped City owned properties. This Public Undeveloped Land Assessment (PULA) began with the Conservation Commission reviewing all City owned parcels and selecting a subset of those parcels which do not currently have buildings or have not been otherwise developed. The resultant 91 City parcels became the focus of this study. This project provides a database and mapping system that can easily be updated and added to in the future. Key issues identified by this project include a description of the important conservation values of each parcel and recommendations for access and appropriate public use of each parcel.

This report includes detailed Resource Inventory Data Sheets and orthophoto maps for all 91 parcels. The 91 parcels in this study total 914 acres with the largest of the parcels being the Great Bog parcel at 190 acres and the smallest approximately a tenth of an acre. Forty four (44) of the parcels were consolidated into nine parcel groups which were evaluated in an effort to provide consistent management suggestions for future use. The remaining 47 parcels were evaluated separately as individual parcels.

Spatial layers and corresponding symbology were created for the project and include:

A.Wildlife corridor
B. Invasive species
C. Access
D. Parking access
E. Historical feature
F. Rare plant
G. Rare animal
H. Dumping
I. Water craft access
J. Non-point source discharge site
K. Wetland restoration site

Field work was conducted between July and December 2009 to identify the above referenced data layers. Photos were taken documenting various site attributes.

Highlights of the findings include:

- Eighty percent of the sites have at least one type of invasive species
- Sixty percent of the sites have existing trails
- Twenty seven percent of the sites have rare plant communities
- Fifty four percent of the sites have wildlife corridors associated with them
- Only a few sites have dedicated parking access but the majority of sites have parking within 750 feet
- Only 2 sites has watercraft access

Each site or group of sites has a series of management suggestions which range from simply protecting the site for wildlife habitat to increasing access, developing trail heads and various stewardship suggestions. Broad themes for management include invasive species, stormwater BMP's, trail maintenance and connectivity and forest management.

This report provides a starting point for overall management of City-owned properties. The information presented establishes a baseline for future management decisions. Follow-up studies may be required to address some of the findings of this study including invasive species management, non-point source discharge mitigation, and wildlife corridor protection.

Several appendices are included to provide a statewide perspective of the natural resources inventoried for this report. Appendix A includes a report from the New Hampshire Natural Heritage Bureau listing rare species and exemplary communities found on the 91 parcels. Appendix B includes a series of maps from the New Hampshire Wildlife Action Plan which show the State's highest ranked wildlife habitat in relationship with the 91 PULA parcels. Appendix C is the certification form for the Largest Green Ash Tree in Rockingham County found on PULA parcel 58.

2. METHODOLOGY

Detailed Natural Resource Inventory

West Environmental, Inc. (WEI) developed a field data sheet with important existing data and all field data to be collected including plant communities, observed wildlife activity, recreational usage, etc. Field orthophoto maps were prepared by Neatline for use by WEI during site inspections. Each site was inspected by WEI between July and December of 2009. Data collected included access, quality of upland habitat, wildlife corridors, trail systems, and open space connections. Habitat degradation and restoration opportunities were noted. Photo documentation of each site was compiled. Sites were also evaluated for non-point source discharge, Natural Heritage elements both plant and animal, and recreational use. All data collected was entered into a database and is displayed on the data forms in Section 4 of this report. Table 1 displays the elements found on each property.

3. BASIC SITE DESCRIPTIONS

Site	Description
1	9 acre site off Route 1 in the southern portion of the City adjacent the Rye Town Line. Mostly wetland.
2	0.07 acre site off Route 1 on the Rye Town Line.
3	0.10 acre site west of Route 1 on the Rye Town Line. All wetland.

4	0.14 acre site in the southwest corner of the City adjacent southern railroad bed.
5	1 acre site in the southern end of Group A adjacent sewer line. Mostly wetland.
6	2 acre parcel off Coach Road west of Route 1. Part of Group A. Conservation Easement.
7	2 acre parcel adjacent Parcel 6 off Coach Road. Conservation Easement
8	23 acre parcel west of Coach Road extending to the railroad bed. Part of Group A. Atlantic white cedar swamp. Conservation Easement.
9	1.62 acre parcel adjacent railroad bed. Part of Group A.
10	7.22 acre parcel west of railroad bed in southwest corner of the City. Part of Group A. Atlantic white cedar swamp on Greenland Town Line.
11	2.92 acre parcel north of Parcel 10. Part of Group A. Atlantic white cedar swamp.
12	4.24 acre parcel north of Parcel 11. Part of Group A. Atlantic white cedar swamp.
13	1.24 acre parcel in the middle of Group A east of the railroad bed
14	4.3 acre parcel in the middle of Group A. Mostly wetland.
15	10.24 acre parcel on the east side of Group A. Atlantic white cedar swamp that abuts sewer line.
16	2 acre parcel in the middle of Group A. Atlantic white cedar swamp.
17	1.62 acre parcel in Group A along the railroad bed. Red maple – sensitive fern swamp.
18	19.21 acre parcel on the north end of Group A off railroad bed. Red maple – sensitive fen swamp
19	3.58 acre parcel off Nathaniel Drive with detention basin and small Atlantic white cedar swamp
20	1.59 acre parcel adjacent Site 19 to the west with stormwater outfall pipe

21	1.28 acre parcel in Group B southwest portion of the City on the Greenland Town Line. Atlantic white cedar swamp.
22	3.65 acre parcel adjacent Parcel 21 in Group B on the Greenland Town Line. Atlantic white cedar swamp with deeryard.
23	5.14 acre parcel north of Site 22 in Group B on the Greenland Town Line. Atlantic white cedar swamp.
24	7.6 acre parcel on Greenland Town Line. Green ash trees are present. Mostly wetland.
25	21.5 acre parcel off Ocean Road and railroad bed. Mostly upland. Part of Group C.
26	0.5 acre parcel south of Parcel 25. Part of Group C.
27	20 acre parcel north of Ocean Road. Part of Group C. Protected for recreation adjacent railroad bed.
28	2.5 acre narrow parcel north of Parcel 27 connecting it to Heritage Avenue. Protected for recreation.
29	9 acre parcel east of Parcel 27. Part of Group C west of Suzanne Drive.
30	0.6 acre parcel off Suzanne Drive east of Parcel 29. Part of Group C.
31	0.22 acre parcel adjacent Parcel 30 at the end of Simonds Road. Part of Group C. Maple Haven Park.
32	1.36 acre parcel off Lang Road. Mostly wetland. Next to Stonecroft.
33	32.5 acre parcel at end of Robert Avenue and Beechstone Street north of Lang Road. Mature white pine forest and trails. Part of Group D.
34	20.6 acre parcel north of Parcel 33 and south of Spring Brook Circle. Large portion is wetland. Part of Group D.
35	39 acre parcel north of Eastwood Drive. Protected for forest management. Part of Group D.
36	19 acre property surrounding Dondero Elementary School with ball fields, ropes course, and forested wetlands.
37	7.66 acre parcel north of Heritage Avenue. Mostly wetland and bordered by industrial development. Part of Group E.

38 30 acre parcel south of Constitution Avenue and east of Banfield Road. 50% wetland with red maple – sensitive fen swamp. Part of Group E.

39 7.24 acre parcel west of Banfield Road. Mostly wetland. East of Great Bog.

40 190 acres of Great Bog including upland island with historic foundations and rare plant communities. Conservation Easement. Part of Group F.

41 1 acre parcel off Buckminster Way at access to Great Bog. Trailhead with parking. Part of Group F.

42 1.8 acre parcel off Ocean Road on Greenland Town Line along the western city limits. Part of Group F.

43 81 acres off Great Bog adjacent to Interstate 95. 90% wetland. Conservation Easement. Part of Group F.

44 16.4 acre parcel north of Parcel 43 at intersection of Interstate 95 and central railroad bed. Mostly wetland. Part of Group F.

45 17 acre parcel east of Parcel 44 with pine island in Great Bog. Part of Group F.

46 6.77 acre parcel along north side of central railroad bed and south of Exit 3 off Interstate 95. Mostly wetland. Part of Group F.

47 17 acres south of central railroad bed and Griffin Road. Public park but 100% wetland. Red maple – sensitive fern swamp. Part of Group F.

48 4.06 acre parcel off Schurman Avenue with swing set, jungle gym, and small ball field. Adjacent Interstate 95.

49 0.6 acre woodland between Colonial Drive (west) and Interstate 95 (east),

50 4.34 acre parcel off Sherburne Road, the majority of which is fenced off for well head protection.

51 0.2 acre parcel off Harvard Street at access gate to Water Department well site. Part of Group G. Borthwick Avenue area.

52 5.8 acre parcel north of Park & Ride on Middle Road off Dodge Avenue. Power lines, fields and woodlands. Part of Group G.

53 19 acres off Harvard Street that includes old DPW buildings adjacent City well site. Abuts central railroad bed. Mostly white pine forest.

54 5 acre City well site at the end of Harvard Street with pond. Part of Group G.

55 14.9 acre freshwater marsh between well site and central railroad bed. Mostly wetland with some phragmites stands. Part of Group G.

56 9.6 acre freshwater marsh south of Borthwick Avenue and north of central railroad bed. Phragmites stands are present. Part of Group G.

57 9.6 acre freshwater marsh north of Portsmouth Regional Hospital on Borthwick Avenue. Mostly wetland. Abuts Interstate 95. Part of Group H.

58 17.4 acre parcel north of Parcel 57 that includes white pine island and tributary stream to Hodgson Brook. Abuts Interstate 95. Part of Group H.

59 0.11 acre parcel off Foch Avenue south of Borthwick Avenue. Part of a small cluster of small parcels. All wetland. Largest green ash tree in Rockingham County.

60 0.5 acre parcel off Foch Avenue. All wetland.

61 0.32 acre parcel off Bayberry Lane. All wetland.

62 0.6 acre parcel off Bayberry Lane. Part of a small cluster of small parcels. Mostly wetland.

63 0.13 acre parcel on Route 1 Bypass and Middle Road. Mostly northern hardwoods.

64 0.25 acre parcel off Middle Road near the intersection with Peverly Hill Road. Small field.

65 0.07 acre parcel off Peverly Hill Road at intersection with Moffat Street. All wetland.

66 0.15 acre parcel adjacent to Parcel 65. All wetland.

67 0.10 acre parcel off Swett Avenue adjacent tot the Chase Home for Children woodland.

68 3.6 acre parcel off Greenleaf Avenue and Holiday Drive north of Sagamore Creek sale marsh. Skateboard park and recreational center.

69 3.9 acre parcel adjacent Portsmouth High School. Overgrown woodland with invasives and wetland which receives untreated runoff from parking lots. Part of Group I.

70	5 acre parcel on east side of High School with ball field and wetland with trail east to Jones Avenue. Forestry easement. Part of Group I.
71	3.6 acres east of Jones Avenue. Mostly wetland with small white pine stand.
72	7.36 acre parcel at High School with tennis courts, ropes course, and parking lots. The remaining land is mostly wetland. Trail south to Parcel 73. Forestry easement. Part of Group I.
73	66.4 acre parcel off Jones Avenue south of High School which includes old landfill and extends to Sagamore Creek. Rare salt marsh plant community and extensive trail network used by High School. Vernal pools are present. Part of Group I.
74	0.4 acre parcel off Elwyn Road at drainage outfall. Mostly wetland.
75	11 acre park off Sagamore Avenue behind Seacoast Mental Health Center. Trailhead with parking access and trail network. Dock for boat access/visiting. Rare salt marsh plant community.
76	16.44 acre woodland at intersection of Sagamore Avenue and Wentworth House Road. High value woodland and wetlands. Man-made pond along road frontage.
77	23.7 acre woodland off Little Harbor Road behind Little Harbor Chapel. Abuts Currier's Cove and includes rare salt marsh plant community. Old foundations. High passive recreation potential.
78	0.41 acre parcel off Cate Road south of Hodgson Brook surrounded by industrial development
79	0.23 acre park on south side of Pierce Island Bridge with sewer pump station
80	0.57 acre parcel off Thornton Street west of and abutting North Mill Pond. Old field scrub-shrub habitat surrounded by residential development.
81	0.47 acre parcel off Mill Pond Way west of and abutting North Mill Pond. Potential for a small park.
82	0.33 parcel off Edmond Avenue adjacent to Interstate 95. Early successional habitat adjacent Parcels 83 & 84.
83	0.62 acre parcel off Edmond Avenue. Mostly scrub-shrub and old field adjacent Interstate 95.

84 1.4 acre parcel off Edmond Avenue. All wetland with invasive species present.

85 5.16 acre parcel south of Arthur F. Brady Drive. Early successional upland and shallow marsh wetland. Disturbed site with stormwater improvement potential.

86 0.15 acre area in front of Market Basket Shopping Plaza on Woodbury Avenue. Landscaped area between road and parking lot.

87 5.7 acre woodland at intersection of Market Street and Kearsarge Way in residential development. Provides wildlife refuge in urban landscape.

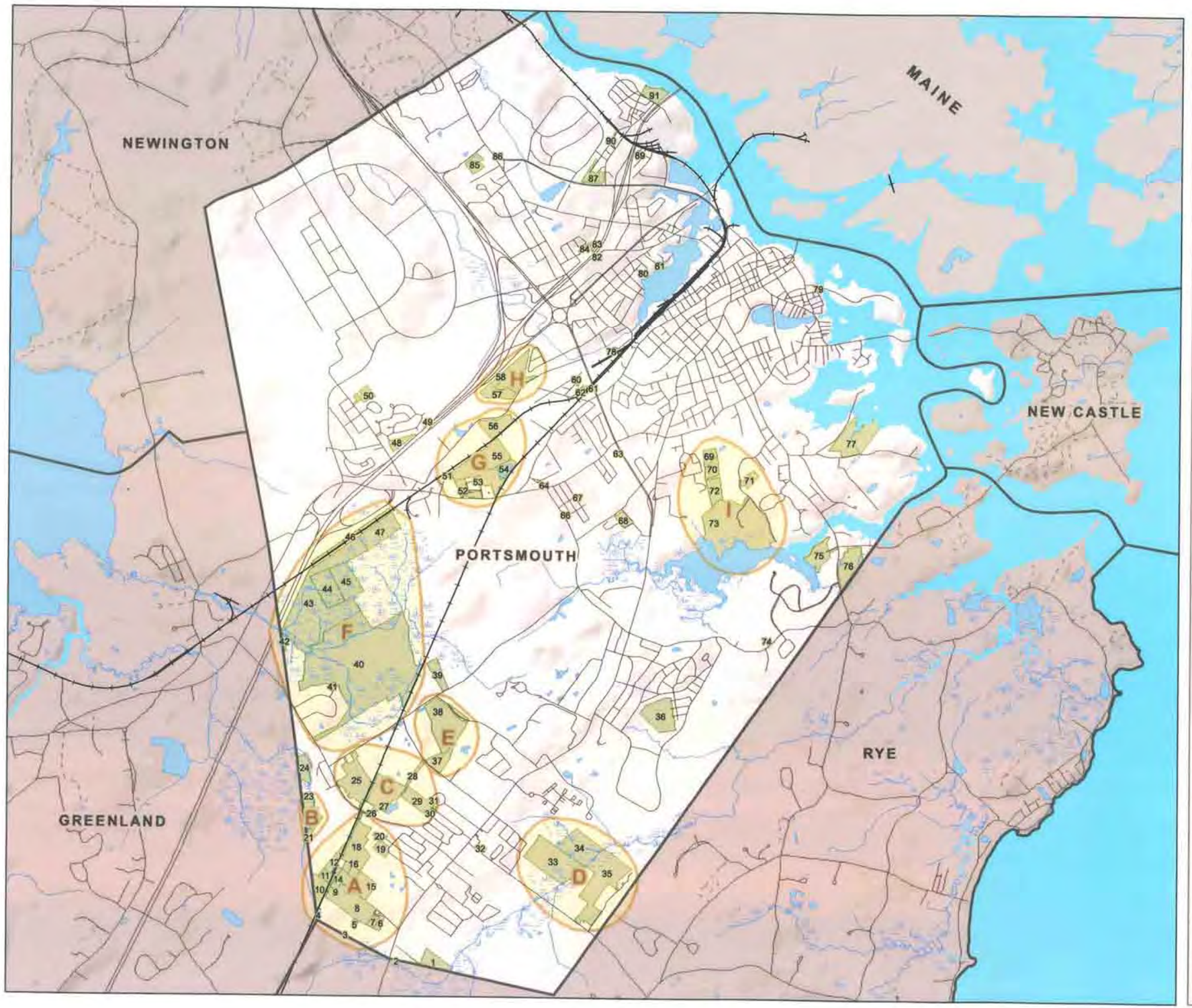
88 0.10 acre parcel off Forest Street near Interstate 95. Very small size limits value.

89 0.10 acre parcel off Forest Street near Interstate 95. Very small size limits value.

90 0.92 acre woodland parcel off Kearsarge Way south of northern railroad bed. Invasive species dominant.

91 6.35 acre Hislop Field in Atlantic Heights Development adjacent to the Piscataqua River. Includes baseball field and woodland. Potential for passive recreation.

4. Citywide Maps



PULA PARCELS and PROPERTY GROUPS

Public Undeveloped Lands Assessment
Portsmouth, NH

PULA Properties
Property Groups
Water Body
Wetland
Public Road
Private Road
Railroad

0 0.5 1
Miles

0 1 2
Kilometers

PULA boundaries based on parcel mapping by the City of Portsmouth. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background hillshade is derived from a 30-m statewide digital elevation model from USGS.

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TRAILS and WILDLIFE CORRIDORS

Public Undeveloped Lands Assessment
Portsmouth, NH

PULA Property boundary

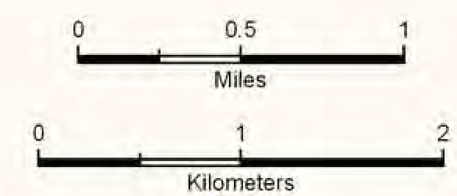
Trail

Wildlife corridor

Trail and Wildlife corridor

Estimated wildlife movement corridors*

* Note these are based on connectivity of large undeveloped parcels and are not based on direct field observations.



PULA boundaries based on parcel mapping by the City of Portsmouth. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background image is 2005 aerial photography by NH DOT.

Digital data in NH GRANIT represent the efforts of the contributing agencies to record information from the cited source materials. Complex Systems Research Center (CSRC), under the contract to the Office of Energy and Planning (OEP), and in consultation with cooperating agencies, maintains a continuing program to identify and correct errors in these data. Neither OEP nor CSRC make any claim to the validity or reliability or to any implied uses of these data.

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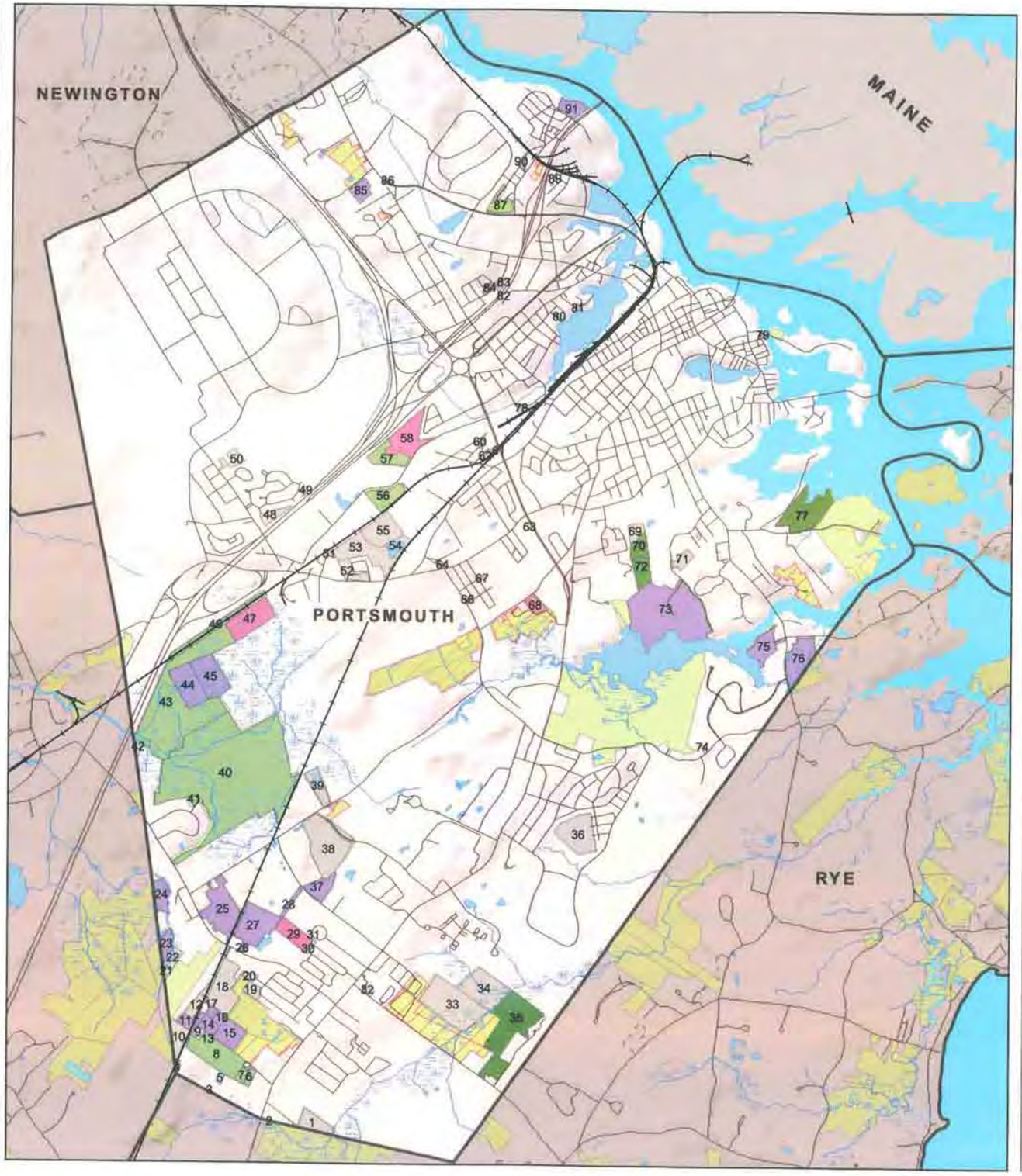
WEST ENVIRONMENTAL

Neatline Associates
Deerfield NH

PULA/D	Type of Easement or Restriction				
	Conservation Easement	Forestry Easement	Public Park	Recreational Purposes	Previous owner retains rights
1					
2					
3					
4					
5					
6	X				
7	X				
8	X				
9					
10					
11				X	
12					
13				X	
14				X	
15				X	
16				X	
17				X	
18					
19					
20					
21					
22					
23				X	
24				X	
25				X	
26				X	
27				X	
28				X	
29			X		
30					
31					
32					
33					
34					
35		X		X	
36					
37				X	
38					
39					
40	X				
41	X				
42					
43	X				
44				X	
45				X	
46	X				
47			X		
48					
49					
50					X
51					
52					
53					
54					X
55					
56	X				
57	X				
58			X		
59					
60					
61					
62					
63					
64					
65					
66					
67					
68			X		
69					
70		X			
71					
72		X			
73				X	
74					
75				X	
76				X	
77		X	X	X	X
78					
79					
80					
81			X		
82					
83					
84				X	
85				X	
86					X
87	X		X		
88					
89					
90					
91				X	



EASEMENTS AND OTHER RESTRICTIONS ON PULA PARCELS

Public Undeveloped Lands Assessment
Portsmouth, NH

PULA Parcels

- Conservation Easement
- Forestry Easement
- Recreational Purposes
- Public Park
- No Easement or Restriction
- Non-PULA Parcel with City-held Cons. Easement (on all or part of parcel)
- Other Conservation Land
- Water Body
- Wetland
- Public Road
- Private Road
- Railroad

0 0.5 1
Miles

0 1 2
Kilometers

PULA boundaries based on parcel mapping by the City of Portsmouth. Easement and restriction data derived from a review of property deeds conducted by Neatline Associates. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: conservation lands; roads, from NHDOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background hillshade is derived from a 30-m statewide digital elevation model from USGS.

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Deerfield, NH
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5. Summary Table of Site Features

PULAID	Parking within 750'	Trail through or adjacent	Water access	Historical Features	Invasive Species	Rare Plant	Rare Animal	Wildlife corridor through or adjacent	Dumping	Wetland Fill	Non-Point Source Discharge	Alt energy
1	X	X			X			X				
2	X				X				X		X	
3		X						X				
4		X										
5		X			X			X				
6	X				X			X				
7	X				X			X				
8	X	X			X			X				
9		X				X						
10		X			X	X						
11		X			X	X						
12		X			X	X		X				
13		X				X						
14		X				X		X				
15		X				X		X				
16						X		X				
17		X				X		X	X			
18	X	X				X		X				
19	X	X			X	X		X				
20	X	X						X			X	
21		X				X		X				
22	X	X				X		X				
23	X					X						
24	X	X			X	X			X			
25	X	X			X			X	X	X		
26	X			X	X			X	X			
27	X	X			X			X				
28	X	X			X			X	X			
29	X	X			X			X				
30	X								X			
31	X				X						X	
32	X				X				X		X	
33	X	X			X							
34					X							
35	X	X			X			X				

36	X	X			X						X	
37	X	X			X			X				
38	X	X			X	X		X	X	X	X	
39	X	X			X				X			
40	X	X			X	X	X	X				
41	X	X			X				X			
42					X							
43		X			X	X	X	X				
44					X	X	X	X				
45					X	X	X	X				
46		X			X		X					
47		X			X	X	X					
48	X				X							
49									X			
50		X			X		X					
51		X			X			X				
52	X	X			X		X	X				X
53	X	X			X			X	X			
54		X			X			X				
55		X			X		X	X		X	X	
56		X			X		X	X			X	
57	X				X			X			X	
58	X	X			X			X	X			
59	X				X	X			X			
60	X				X				X			
61	X	X			X				X			
62	X	X			X							
63		X			X			X				
64												
65	X				X							
66	X				X							
67	X							X			X	
68	X				X							
69	X				X				X	X		
70	X	X			X			X	X			
71	X	X			X		X	X	X			
72	X	X			X			X				
73	X	X			X	X		X	X			
74					X		X					
75	X	X	X		X	X		X	X			
76	X				X			X				
77			X	X	X	X		X				
78	X				X				X			
79												

80	X				X				X			
81	X				X				X			
82	X				X			X				
83	X				X			X				
84	X				X			X				
85		X			X				X		X	
86					X							
87	X				X			X		X		
88	X	X			X							
89	X	X			X							
90	X	X			X				X			
91	X	X			X						X	
Total	58	55	2	2	73	25	12	49	27	5	12	1
Percentage	64%	60%	2%	2%	80%	27%	13%	54%	30%	5%	13%	1%

6. OVERALL STEWARDSHIP SUGGESTIONS

Background

WEI met with the Conservation Commission to develop management/stewardship suggestion categories and to help define the overall goals. This meeting included a thorough discussion of each management/stewardship category and possible future implementation. WEI has prepared a set of management suggestions for each parcel either individually or as a group of parcels. Parcels that are part of a group were evaluated as a whole to coordinate management suggestions and have a greater benefit than if they were separated. Examples include developing trail networks throughout a group of parcels and invasive species management over several tracts.

Access

The majority of the parcels are accessible by foot traffic only and parking is often limited to road shoulders. In evaluating the suitability of access to a particular parcel, adjacent land use, existing trails and physical site constraints were considered. Specific elements included dedicated parking and/or room for legal parking at or adjacent to a parcel.

Recreation

Management suggestions in this category have been separated into land-passive, land-active, and water. The City-wide PULA map identifies existing trails in and adjacent to the 91 parcels and this trail network has potential for expansion and linkage. This is a broad theme for passive recreation. Active recreation was not evaluated because the Portsmouth Recreation Department focuses on this issue. Water access in the form of boat launches and fishing is very limited with the PULA parcels.

This is an example of a recreation trail on PULA parcel 76

Wildlife Habitat

Management suggestions related to wildlife habitat have been separated into habitat protection and habitat management. Many PULA parcels are part of larger habitat blocks that have separate ownership and even zoning. The intent of these management suggestions is to protect important upland and wetland habitats where they exist and to protect citywide wildlife corridors. Forest management activities could be used as a tool to enhance wildlife habitat. It should also be noted that even small niche habitats can be important in an urbanized landscape.

Stormwater Management Opportunities

Many PULA parcels are part of a drainage easement for stormwater structures built prior to comprehensive stormwater regulations. These sites present an opportunity to upgrade old drainage structures that degrade the water quality of wetlands and surface waters. Wherever non-point source discharges were identified in this inventory, there is the potential for installation of a stormwater BMP (Best Management Practice). WEI identifies the type of BMP recommended for each location. It is important to note that these management suggestions are for capital improvements which must be prioritized based on, budget constraints, and will often include developing partnerships with abutting property owners to implement these management suggestions.

Invasive Species Control

Wherever invasive species have been identified in the PULA, there may be invasive species management recommended. The elements that led to a specific recommendation included severity of the invasion, type of species, aesthetic impact on the public, and importance of habitats affected (i.e. rare plants or animals). Implementing an invasive species management plan is recommended to safeguard Portsmouth's remaining wildlife habitat. Invasive species management can require a significant commitment of time and money and should only be undertaken if a long-term commitment can be made. Partnerships and development of a pilot program may be helpful during the initial phase of any plan. *Below is an example of Asian bittersweet choking canopy trees on PULA parcel 77.*

Wetland Restoration
The NRI identifies locations where historic wetland fill exists. Sites should be prioritized based on the quality of resource impacted (i.e. prime wetland), overall functions performed, and potential for success. Specific wetland restoration plans should be developed for each site to assure success.

Education Potential
Access and proximity to schools play major roles in identifying education sites. Although they are not abundant on PULA properties, the sites identified provide long-term environmental education opportunities (especially the lands abutting schools). Input from school teachers and administration should be sought prior to development of specific plans.

Forest Management
Forest management requires a minimum sized parcel to justify the commitment of resources. Cluster groups were the focus of this recommendation category as they often provide the best opportunities for viable management. Abutter concerns, potential habitat enhancement, and economic viability will play a key role in determining the implementation of forest management on PULA properties. *Below is a view of a well stocked forest which could be managed for timber.*

Alternative Energy
Key components for identifying this category of sites included grid access, elevation, slopes, and southern exposure. Any management suggestions are preliminary and would require follow up with alternative energy professionals.

Community Gardens
Agricultural soils, cleared land, and public parking were some of the components used to determine if a site warrants this recommendation. Partnerships with neighborhoods or established local groups interested in coordinating this type of activity would be key to the success of any community garden project.

Stewardship Clean-Up
This recommendation is both mechanical and non-mechanical clean-up and ranges from trash pick-up to earth excavation. Sites should be prioritized based on the complexity of the clean-up, value of habitat, aesthetic impact, and potential partnerships.

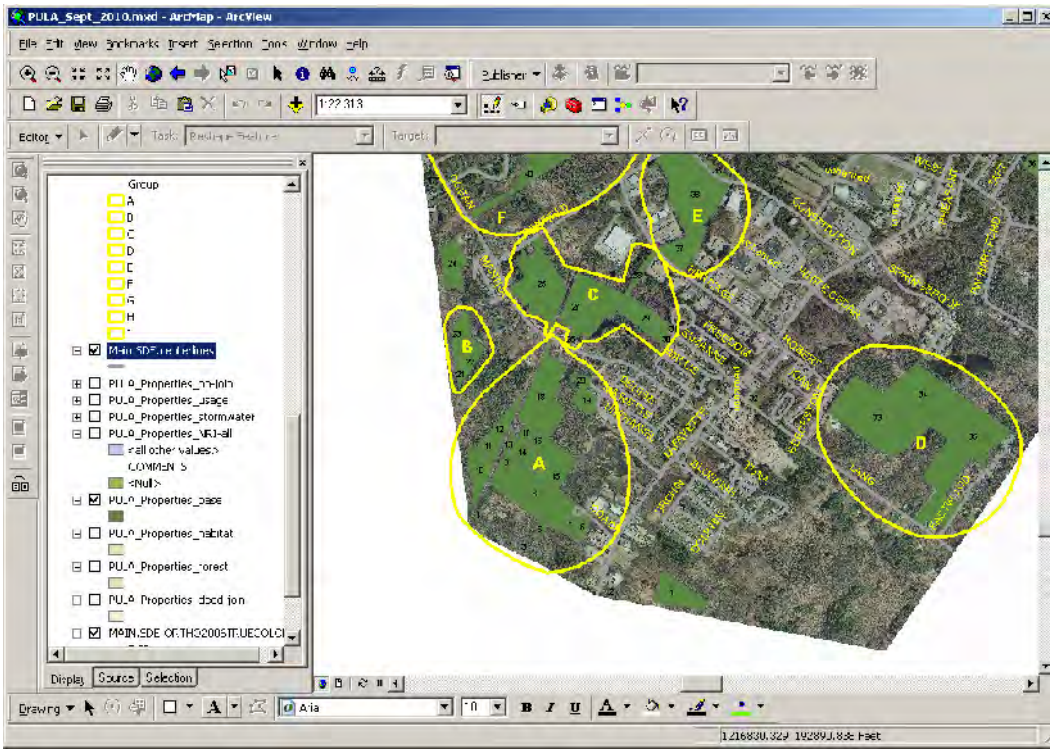
SITE SPECIFIC MANAGEMENT SUGGESTIONS

Parcel 1 is a 9 acre site off Route 1 in the southern portion of the City adjacent the Rye Town Line. Mostly wetland.
- Parcel is very wet and difficult to access
- Has potential for wildlife habitat management

Parcel 2 is a 0.07 acre site off Route 1 on the Rye Town Line
- Parcel is very small
- Adjacent parking area is discharging stormwater into this parcel and adjoining wetlands
- Provide incentive to adjacent commercial enterprise to install an appropriate storm water basin/constructed wetland
- Protect as wildlife habitat

Parcel 3 is a 0.10 acre site west of Route 1 on the Rye Town Line. All wetland
- Parcel is very wet and difficult to access
- Protect as wildlife habitat

Parcel 4 is a 0.14 acre site in the southwest corner of the City adjacent southern railroad bed
- Parcel is very wet and difficult to access
- Protect as wildlife habitat



Group A Management Suggestions

This group is in the southernmost part of the City totals 82.61 acres and is made up of parcels 5-18 or the area inside of A on the adjacent map. This group includes several parcels that have conservation easements to the Southeast Land Trust and include Rare Atlantic White Cedar Swamps and Red Maple Sensitive Fern Swamps which deserve protection due to the unique characteristics identified by NH Natural Heritage. This could include expansion of long-term conservation protection onto additional parcels. The end of Coach Road could be considered for a dedicated parking/trail head as the starting point for an enhanced trail network. In order to make such a trail network functional it would be important to evaluate the potential for a boardwalk wetland crossing to access sewer line trail.

Parcel 5 is a 1acre site in the southern end of Group A adjacent sewer line. Mostly wetland.

- Maintain trail over sewer line
- Protect as wildlife habitat
- Consider conservation protection in perpetuity

Parcel 6 is a 2 acre parcel off Coach Road west of Route 1. Part of Group A. This parcel includes a Conservation Easement to the Southeast Land Trust of NH

- Protect as wildlife habitat

Parcel 7 is a 2 acre parcel adjacent Parcel 6 off Coach Road. This parcel includes a Conservation Easement to the Southeast Land Trust of NH

Consider stormwater treatment/wetland restoration

- Protect as wildlife habitat
- Evaluate for invasive species control

Parcel 8 is a 23 acre parcel west of Coach Road extending to the railroad bed. Part of Group A. Atlantic white cedar swamp. This parcel includes a Conservation Easement to the Southeast Land Trust of NH

Maintain trail over sewer line

- Protect as wildlife habitat

Parcel 9 is a 1.62 acre parcel adjacent railroad bed. Part of Group A.

- Protect for Wildlife Habitat and Rare Plant community
- Consider conservation protection in perpetuity

Parcel 10 is a 7.22 acre parcel west of railroad bed in southwest corner of the City. Part of Group A. Atlantic white cedar swamp on Greenland Town Line.

- Protect for Wildlife Habitat and Rare Plant community
- Consider conservation protection in perpetuity

Parcel 11 is a 2.92 acre parcel north of Parcel 10. Part of Group A. *A photo of the Atlantic white cedar swamp*.is to the right.

- Protect for Wildlife Habitat and Rare Plant community
- Consider conservation protection in perpetuity

Parcel 12 is a 4.24 acre parcel north of Parcel 11. Part of Group A. Atlantic white cedar swamp

- Protect for Wildlife Habitat and Rare Plant community
- Consider conservation protection in perpetuity

Parcel 13 is a 1.24 acre parcel in the middle of Group A east of the railroad bed

- Protect for Wildlife Habitat and Rare Plant community
- Consider conservation protection in perpetuity

Parcel 14 is a 4.3 acre parcel in the middle of Group A. Mostly wetland.

- Protect for Wildlife Habitat and Rare Plant community
- Consider conservation protection in perpetuity

Parcel 15 is a 10.24 acre parcel on the east side of Group A. Atlantic white cedar swamp that abuts sewer line.

- Protect as wildlife habitat
- Consider expanding conservation protection in perpetuity on this parcel
- Maintain Trail along southern property boundary

Parcel 16 is a 2 acre parcel in the middle of Group A. Atlantic white cedar swamp
- Protect for Wildlife Habitat and Rare Plant community
- Consider conservation protection in perpetuity

Parcel 17 is a 1.62 acre parcel in Group A along the railroad bed. Red maple – sensitive fern swamp
- Protect for Wildlife Habitat and Rare Plant community
- Consider conservation protection in perpetuity

Parcel 18 is a 19.21 acre parcel on the north end of Group A off railroad bed. Red maple –sensitive fern swamp
- Protect for Wildlife Habitat and Rare Plant community
- Consider conservation protection in perpetuity

Parcel 19 is a 3.58 acre parcel off Nathaniel Drive with detention basin and small Atlantic white cedar swamp
- Maintain trail over sewer line
- Consider trail head signage off of Nathaniel Drive
- Protect as wildlife habitat and Rare Plant Community

Parcel 20 is a 1.59 acre parcel adjacent Site 19 to the west with stormwater outfall pipe
- Evaluate stormwater BMP at pipe outlet from Mariette Drive
- Protect as wildlife habitat

Group B Management Suggestions

This group includes parcels 21, 22 and 23 totals 10.07 acres and includes Rare Atlantic White Cedar Swamps which deserve protection and these parcels abut Nature Conservancy Conservation Land that extends into the Town of Greenland and includes Packer Bog. Expansion of conservation protection in perpetuity could be considered for parcels in this group because of the presence of Atlantic white cedar swamp

Parcel 21 is a1.28 acre parcel in Group B southwest portion of the City on the Greenland Town Line. Atlantic white cedar swamp
- Protect for Wildlife Habitat and Rare Plant Community
- Consider conservation protection in perpetuity

Parcel 22 is a 3.65 acre parcel adjacent Parcel 21 in Group B on the Greenland Town Line. Atlantic white cedar swamp with deeryard.

- Protect for Wildlife Habitat and Rare Plant Community
- Consider conservation protection in perpetuity

Parcel 23 is a 5.14 acre parcel north of Site 22 in Group B on the Greenland Town Line Atlantic white cedar swamp.

- Protect for Wildlife Habitat and Rare Plant Community
- Consider conservation protection in perpetuity

Parcel 24 is a 7.6 acre parcel on Greenland Town Line. Green ash trees are present. Mostly wetland.

- Protect for Wildlife Habitat and Rare Plant Community
- Consider conservation protection in perpetuity
- Install stormwater management

Group C Management Suggestions

This Group includes parcels 25-31 totals 54.32 acres and includes mostly forested uplands with marketable timber thus if combined could represent a good forest management site. In addition a trail network is present which could be expanded upon.

Parcel 25 is a 21.5 acre parcel off Ocean Road and railroad bed. This parcel is mostly upland.
Part of Group C.

- Protect for wildlife habitat
- Manage for potential forest production
- Improve existing trail system
- Evaluate stormwater BMPs to divert road drainage from intermittent stream directly into adjacent storm drain

Parcel 26 is a 0.5 acre parcel south of Parcel 25. Part of Group C.

- Protect for wildlife habitat

Parcel 27 is a 20 acre parcel north of Ocean Road. Part of Group C. Protected for recreation adjacent railroad bed.

- Protect for wildlife habitat
- Manage for potential forest production
- Improve existing trail system

Parcel 28 is a 2.5 acre narrow parcel north of Parcel 27 connecting it to Heritage Avenue. Protected for recreation.

- Protect for wildlife habitat
- Improve existing trail system

Parcel 29 is a 9 acre parcel east of Parcel 27. Part of Group C west of Suzanne Drive. Protect for wildlife habitat
- Manage for potential forest production
- Improve existing trail system

Parcel 30 is a 0.6 acre parcel off Suzanne Drive east of Parcel 29. Part of Group C.
- Continue to manage as park area

Parcel 31 is a 0.22 acre parcel adjacent Parcel 30 at the end of Simonds Road. Part of Group C. Maple Haven Park.
- Continue to manage as park area
- Evaluate stormwater BMPs to direct road runoff into woodland

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Parcel 32 is a 1.36 acre parcel off Lang Road. Mostly wetland next to Stonecroft apartments.
- Remove grass piles on unnamed road
- Improve/fix stormwater discharge into wetlands

Group D Management Suggestions

This Group include parcels 33-35 totals 92.1 acres and includes mostly forested uplands with marketable timber thus if combined could represent a good forest management site. Logging activities would have to be timed carefully with frozen ground not impact the wetter soils. Forest openings could be created to enhance wildlife habitat

Parcel 33 is a 32.5 acre parcel at end of Robert Avenue and Beechstone Street north of Lang Road. Mature white pine forest and trails. Part of Group D.

- Manage for potential forest production
- Improve expand trail system to connect group of parcels.

Parcel 34 is a 20.6 acre parcel north of Parcel 33 and south of Spring Brook Circle. Large portion is wetland. Part of Group D.
- Manage for potential forest production
- Improve expand trail system to connect group of parcels

Parcel 35 is a 39 acre parcel north of Eastwood Drive. Protected for forest management. Part of Group D.

- Manage for potential forest production
- Improve expand trail system to connect group of parcels

Parcel 36 is a 19 acre property surrounding Dondero Elementary School with ball fields, ropes course, and forested wetlands.

- Clear and maintain trails to Garfield and Taft Streets see photo >
- Consider education sites off of western trail
- Evaluate stormwater BMPs at discharge location south of parking lot
- Evaluate for invasive species control (see site map)

Group E Management Suggestions

This group includes parcels 37 and 38. These two parcels total 37.66 acres and are located in an industrial area and it has some timber value which could be improved. A rare wetland plant community is present on Parcel 38.

Parcel 37 is a 7.66 acre parcel north of Heritage Avenue. Mostly wetland and bordered by industrial development. Part of Group E.

- Develop trail from #38 to #28 (across Heritage Avenue)
- Consider removing invasive species from parcel

Parcel 38 is a 30 acre parcel south of Constitution Avenue and east of Banfield Road. 50% wetland with red maple – sensitive fern swamp. Part of Group E.

- Manage for wildlife to maintain potential connectivity between city-owned properties on SW and NW
- Bring parcel under a forest management plan to improve stand
- Manage for continued passive recreation (the parcel is being used extensively for camping and foot paths)
- Consider developing a footpath/travel from Constitution Ave. through Parcel 38 to 37 and develop signage

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Parcel 39 is a 7.24 acre parcel west of Banfield Road. Mostly wetland. East of Great Bog.

- Protect for wildlife and open space
- Evaluate stormwater BMPs to prevent stormwater discharge from Constitution Ave from entering parcel

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Group F Management Suggestions

This group is made up of parcels 40-47 and totals 330.97 acres. This is the largest contiguous PULA parcel group covering 330.97 acres of Great Bog and its associated upland. The Southeast Land Trust of New Hampshire (SELT) holds an easement on 191± acres including Parcels 40 (190 acres) and 41 (1 acre). Expansion of the conservation protection in perpetuity of additional parcels should be considered due to the ecological importance of this area. In addition, this is one of the few PULA parcels with dedicated parking and a trail head. Invasive species are present throughout the Group F parcels and invasive species management is also recommended.

Parcel 40 is made up of 190 acres of Great Bog including upland island with historic foundations and rare plant communities. Conservation Easement. Part of Group F.

- Baseline Documentation and Management Plans have been prepared for this parcel and it has an extensive trail network which should be maintained. As part of this maintenance, several small wooden boardwalks could be utilized to reduce trail erosion at wetland crossings. This trail system links to the eastern railroad bed trail. Wildlife habitat management should be investigated for specific endangered species present at the site. This site can be utilized for environmental education as there is parking available for a bus or vans.

  The installation of a boardwalk on this portion of the trail on parcel 40 would prevent wetland impact.

Parcel 41 is a 1 acre parcel off Buckminster Way at access to Great Bog. Trailhead with parking. Part of Group F.

- Invasive species control is recommended for this small parcel that abuts the site entrance and trail head. A view of the dedicated parking area shown below.

Parcel 42 is a 1.8 acre parcel off Ocean Road on Greenland Town Line along the western city limits. Part of Group F

- Protect as wildlife habitat
- Potential alternative energy site next to power grid station off Ocean Road

Parcel 43 is made up of 81 acres off Great Bog adjacent to Interstate 95. 90% wetland. Conservation Easement. Part of Group F

- Protect as wildlife habitat
- Consider expanding conservation protection in perpetuity onto this parcel
- Evaluate stormwater discharge from Interstate 95 – this might be related to invasive species control

Parcel 44 is a 16.4 acre parcel north of Parcel 43 at intersection of Interstate 95 and central railroad bed. Mostly wetland. Part of Group F.

- Protect as wildlife habitat
- Consider expanding conservation easement onto this parcel
- Evaluate invasive species management

Parcel 45 is a 17 acre parcel east of Parcel 44 with pine island in Great Bog. Part of Group F.

- Protect as wildlife habitat
- Consider expanding conservation easement onto this parcel
- Evaluate invasive species management

Parcel 46 is a 6.77 acre parcel along north side of central railroad bed and south of Exit 3 off Interstate 95. Mostly wetland. Part of Group F.

- Protect as wildlife habitat
- Evaluate western railroad bed for trail

Parcel 47 is made up of 17 acres south of central railroad bed and Griffin Road. Public park but 100% wetland. Red maple – sensitive fern swamp. Part of Group F.

- Protect as wildlife habitat
- Evaluate invasive species management

Parcel 48 is a 4.06 acre parcel off Schurman Avenue with swing set, jungle gym, and small ball field. Adjacent Interstate 95.

- Existing potential for ball field could be expanded but limited parking is available

Parcel 49 is a 0.6 acre woodland between Colonial Drive (west) and Interstate 95 (east),
- Size and location restrict potential for management
- Community garden is a possibility if there is neighborhood support

Parcel 50 is a 4.34 acre parcel off Sherburne Road, the majority of which is fenced off for well head protection
- Entire site is fenced for water resource protection see photo below.
- Evaluate for invasive species management

Group G Management Suggestions

This Group is made up of parcels 51-56 totals 54.5 acres and includes the municipal well site and a variety of habitats. Access and parking are present off of Greenland Road. Portions of the sites should be protected for wildlife habitat. There are now two non-point source discharge locations that should be evaluated for BMPs. There is a wetland restoration site and a variety of clean up sites. Invasive species management should also be considered. Due to the

park and ride on the site, a community garden could be installed. Finally, the presence of grid access and elevation make this a candidate for alternative energy exploration for wind.

Parcel 51 is a 0.2 acre parcel off Harvard Street at access gate to Water Department well site. Part of Group G. Borthwick Avenue area.
- Consider invasive species management
- Evaluate access at gate on Harvard Street

Parcel 52 is a 5.8 acre parcel north of Park & Ride on Middle Road off Dodge Avenue. Power lines, fields and woodlands. Part of Group G.
- Consider community garden
- Maintain trail Alternative energy potential

Parcel 53 is a 19 acre parcel off Harvard Street that includes old DPW buildings adjacent City well site. Abuts central railroad bed. Mostly white pine forest.
- Stewardship/clean up
- Maintain trail
- Protect as wildlife habitat

Parcel 54 is a 5 acre City well site at the end of Harvard Street with pond. Part of Group G.
- Protect as wildlife habitat and for water resources

Parcel 55 is a 14.9 acre freshwater marsh between well site and central railroad bed. Mostly wetland with some phragmites stands. Part of Group G.
- Evaluate buildings for demolition or re-use
- Stormwater BMP (grassed swale)
- Wetland restoration
- Consider invasive species management

Parcel 56 is a 9.6 acre freshwater marsh south of Borthwick Avenue and north of central railroad bed. Phragmites stands are present. Part of Group G
- Stormwater BMP
- Consider invasive species management

Group H Management Suggestions

This Group is made up of parcels 57 and 58 totals 27 acres and is mostly wetland with an upland island in its center. A tributary to Hodgson Brook flows through it. Stormwater management improvements could be considered with cooperation of the adjoining hospital site. Consider invasive species management. Access could be enhanced but trail dead ends due to Interstate 95 adjacent to the site.

Parcel 57 is a 9.6 acre freshwater marsh north of
Portsmouth Regional Hospital on Borthwick Avenue.
Mostly wetland. Abuts Interstate 95. Part of Group H.

- Protect as wildlife habitat
- Consider invasive species control

Parcel 58 is a 17.4 acre parcel north of Parcel 57 that includes white pine island and tributary stream to Hodgson Brook. Abuts Interstate 95. Part of Group H.

- Enhance access
- Protect as wildlife habitat
- Tributary to Hodgson Brook

This is a view of the access road into parcel 58.

Parcel 59 is a 0.11 acre parcel off Foch Avenue south of Borthwick Avenue. Part of a small cluster of small parcels. All wetland. Largest green ash tree in Rockingham County.

- Manage parcel as a "niche" habitat for wildlife
- Manage parcel to safeguard a unique plant community (parcel #59 contains the largest green ash in Rockingham County) see picture below

Parcel 60 is a 0.5 acre parcel off Foch Avenue. All wetland
- Manage parcel as a "niche" habitat for wildlife
- Manage parcel to safeguard a unique plant community

Parcels 61 is a 0.32 acre parcel off Bayberry Lane. All wetland.
- Manage parcel as a "niche" habitat for wildlife
- Manage parcel to safeguard a unique plant community
- Reduce/eliminate invasive species

Parcel 62 is a 0.6 acre parcel off Bayberry Lane. Part of a small cluster of small parcels. Mostly wetland.
- Manage parcel as a "niche" habitat for wildlife
- Manage parcel to safeguard a unique plant community
- Reduce/eliminate invasive species

Parcel 63 is a 0.13 acre parcel on Route 1 Bypass and Middle Road. Mostly northern hardwoods
- Conservation value greatly diminished due to size and proximity to Route 1
- Access is very difficult due to heavy traffic on Route 1
- Opportunity to potentially use parcel for stormwater management – east and west ditch lines could be directed to a storm water basin before entering adjacent high valued system
- Safety issues

Parcel 64 is a 0.25 acre parcel off Middle Road near the intersection with Peverly Hill Road. Small field
- Manage as adjoining recreation land – its position next to Middle Road playing field may increase its overall value
- Size is very small
- Position on two roads creates a safety issue and limits overall usage by the general public

Parcels 65 & 66 are 0.07 acre and 0.15 acre parcels off Peverly Hill Road at intersection with Moffat Street. Both parcels are all wetland.

- Manage these parcels together along with #67 as part of management grouping
- Parcels #65,66 & 67 are similar in that parcels are largely wet
- Manage the "niche" habitats for wildlife
- Manage as open space in a heavily developed area
- Purple loosestrife was noted in the wetland

Parcel 67 is a 0.10 acre parcel off Swett Avenue adjacent to the Chase Home for Children woodland.

- This parcel provides access to a large forested property belonging to the Chase Home
- Currently, storm water from McClintook Avenue is draining towards this parcel – there is an opportunity for the city to capture this discharge by installing a BMP
- A nearby wetland drains back towards the estuary
- Wildlife interaction

Parcel 68 is a 3.6 acre parcel off Greenleaf Avenue and Holiday Drive north of Sagamore Creek salt marsh. Skateboard park and recreational center

- Expand recreational opportunities
- Provide picnic tables
- Explore with Chase Home a connecting trail system (develop foot trail from 68 through Chase property to 67)
- Remove component of phragmites in southwest
- Provide a wildlife viewing station/stand along the edge of the adjacent estuary

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Group I Management Suggestions

This group is made up of parcels 69-73 and totals 82.66 acres. These parcels are located between the Portsmouth High School and the Sagamore Creek Marsh which lend it to environmental education. There is a network of cross-country trails through Parcel #73 linking it to Jones Avenue. Access from the high school and Jones Avenue could be enhanced. As an old landfill site, additional clean-up is needed. This site has very high wildlife habitat values and should be protected, especially Parcel #73 as it abuts Sagamore Creek. Consider invasive species management. Alternative energy may be a possibility at the old landfill site.

Parcel 69 is made up of 3.9 acres adjacent Portsmouth High School. Overgrown woodland with invasives and wetland which receives untreated runoff from parking lots. Part of Group I.

- Consider establishing an "outdoor classroom" on this parcel

- Manage with adjacent parcels #70, 72 & 73
- Manage for wildlife
- Reduce/eliminate invasive species
- Stormwater BMP for adjacent parking lot

Parcel 70 is a 5 acre parcel on east side of High School with ball field and wetland with trail east to Jones Avenue. Forestry easement. Part of Group I.

- Maintain/enhance tail to Jones Avenue

Parcel 71 is made up of 3.6 acres located east of Jones Avenue. Mostly wetland with small white pine stand

- Access is limited to small trail – mostly wetland
- Protect as wildlife habitat

Parcel 72 is a 7.36 acre parcel at Portsmouth High School, with tennis courts, ropes course, and parking lots. The remaining land is mostly wetland. Trail south to Parcel 73. Forestry easement. Part of Group I.

- Maintain/enhance trail to Parcel #73

Parcel 73 is a 66.4 acre parcel off Jones Avenue south of High School which includes old landfill and extends to Sagamore Creek. Rare salt marsh plant community and extensive trail network used by the High School. Vernal pools are present. Part of Group I

- Maintain/enhance access from High School and Jones Avenue
- Protect as wildlife habitat
- Enhance environmental education potential
- Stewardship/clean-up
- Evaluate for alternative energy
- Consider invasive species management
- Clean up debris and trash associated with homeless activity shown to the right

Parcel 74 is a 0.4 acre parcel off Elwyn Road at drainage outfall. Mostly wetland.

- Protect as wildlife habitat

Parcel 75 is an 11 acre park off Sagamore Avenue behind Seacoast Mental Health Center. Trailhead with parking access and trail network. Dock for boat access/visiting. Rare salt marsh plant community.

- Maintain trail system
- Protect as wildlife habitat
- Consider invasive species management

Parcel 76 is a 16.44 acre woodland at intersection of Sagamore Avenue and Wentworth House Road. High value woodland and wetlands. Man-made pond along road frontage.

- Protect as wildlife habitat
- Evaluate access off of Wentworth House Road
- Consider invasive species management

Parcel 77 is a 23.7 acre woodland off Little Harbor Road behind Little Harbor Chapel. Abuts Currier's Cove and includes rare salt marsh plant community. Old foundations. High passive recreation potential.

- Consider enhancing access on southwest corner of site off Little Harbor Road
- Consider upgrading trail system to marsh
- Protect as wildlife habitat
- Explore historic site
- Consider invasive species management

Parcel 78 is a 0.41 acre parcel off Cate Road south of Hodgson Brook surrounded by industrial development

- Consider the sale of property (if allowed) for residential or commercial development
- Consider bartering this property to commercial abutter (on west/south) in exchange for small section of existing parking area to establish a vegetated buffer along the brook that empties into Mill Pond
- Reduce/eliminate the invasive species

Parcel 79 is a 0.23 acre park on south side of Pierce Island Bridge with sewer pump station

- No management suggestions

Parcel 80 is a 0.57 acre parcel off Thornton Street west of and abutting North Mill Pond. Old field scrub-shrub habitat surrounded by residential development.

- Manage as open space
- Reduce/eliminate invasive species

Parcel 81 is a 0.47 acre parcel off Mill Pond Way west of and abutting North Mill Pond. Potential for a small park.

- Due to adjacent location of residential neighborhoods, manage this parcel as a city park where picnicking could occur; parcel appears underutilized
- Equip with tables
- Establish a bird viewing station
- Reduce/eliminate invasive species
- Provide access to Mill Pond for canoeing/kayaking

Parcels 82, 83 & 84 (Edmond Drive) 82 is a 0.33 parcel off Edmond Avenue adjacent to Interstate 95. Early success ional habitat adjacent Parcels 83 & 84. Parcel 83 is a 0.62 acre parcel off Edmond Avenue. Mostly scrub-shrub and old field adjacent Interstate 95. Parcel 84 is a 1.4 acre parcel off Edmond Avenue. All wetland with invasive species present.

- Manage these 3 parcels as open space
- A trail was noted on Parcel #82 that is being utilized by resident wildlife species
- Manage existing habitat for wildlife usage
- Reduce/eliminate invasive species (candidate for trial program)

Parcel 85 is a 5.16 acre parcel south of Arthur F. Brady Drive. Early successional upland and shallow marsh wetland. Disturbed site with stormwater improvement potential.

- Install BMP on frontage of Arthur Bradley Avenue (see photo below for illustration of direct road discharge and invasive species response to road runoff Stewardship/clean-up
- Consider invasive species management

Parcel 86 is a 0.15 acre area in front of Market Basket Shopping Plaza on Woodbury Avenue. Landscaped area between road and parking lot.

- No management suggestions

Parcel 87 is a 5.7 acre woodland at intersection of Market Street and Kearsarge Way in residential development. Provides wildlife refuge in urban landscape.

- Manage with Parcel #90
- Provide incentive to adjacent athletic facility to reduce/improve stormwater discharge from their parking area

- Manage as open space
- Manage for wildlife usage (some observed near existing wetland)
- The parcel may be providing some conductivity to forested parcel on west and NE
- Due to proximity of athletic facility, consider developing a loop path into property

Parcels 88 & 89 These parcels include a 0.10 acre parcel off Forest Street near Interstate 95 and a 0.10 acre parcel off Forest Street near Interstate 95. Both are very small in size which limits their value.

- Manage these two parcels together
- #88/89 are located in a small area of forest – when combined with the adjoining forest, they provide some habitat value to resident wildlife species
- White-tailed deer and rabbit (spp.) have been observed
- Reduce/eliminate all invasive species (heavily infested)
- These parcels are situated on Forrest Street (a paper street)
- These parcels provide some sound buffering from adjacent turnpike to area residences
- Reduced residential value because parcels are situated on "paper streets"

Parcel 90 is a 0.92 acre woodland parcel off Kearsarge Way south of northern railroad bed. Invasive species dominant.

- Manage this parcel with #87 or as a group including #87, 88, 89 & 90
- Manage for passive recreation (walking/exercise) – there is an active path from Spinnaker Way through #90 to an unnamed road
- It appears that folks are using the parcel to access the adjacent railroad bed
- Manage as open space in area of heavy urbanization
- Some wildlife usage is occurring – a den site was observed on SW corner
- This parcel is heavily infested with invasives – manage to reduce or eliminate
- Parcel provides some conductivity to forested properties on NW and SE

Parcel 91 is a 6.35 acre Hislop Field in Atlantic Heights Development adjacent to the Piscataqua River. Includes baseball field and woodland. Potential for passive recreation.

- This parcel provides an excellent viewing opportunity of the Piscataqua – this could be expanded with additional benches/picnic tables
- A plan should be developed to deal with occurring erosion (north side of ball park)
- Explore providing direct access to Piscataqua for fishing purposes
- Reduce/eliminate invasive species
- Wind energy potential

PULA 1 - 2

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 150 300
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

Nedline Associates
Deerfield, NH
www.nhgis.com

PULA 3 - 9

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 200 400
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

For planning purposes only.

Nearline Associates
Deerfield, NH
www.nhgis.com

PULA 10 - 17

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 200 400
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

Nedline Associates
Deerfield, NH
www.nhgis.com

PULA 18 - 20

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 200 400
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

Nedline Associates
Deerfield, NH
www.nhgis.com

PULA 21 - 23

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 150 300
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

Neatline Associates
Deerfield, NH
www.nhgis.com

PULA 24 - 25

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 200 400
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

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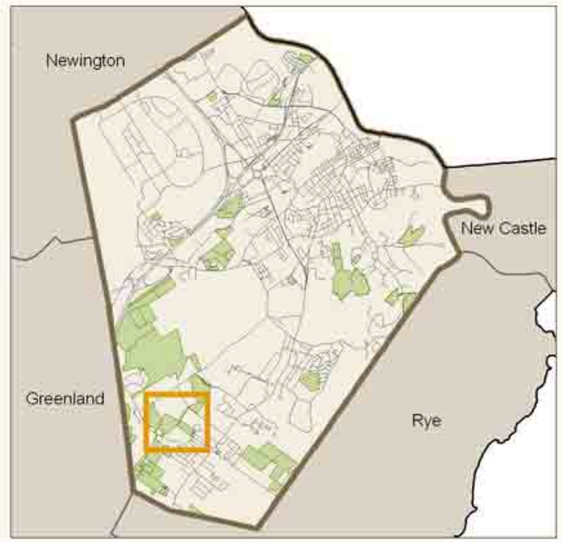
PULA 26 - 31

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary



0 200 400
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

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PULA 32

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 100 200
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

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PULA 33 - 35

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 300 600
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

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PULA 36

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 200 400
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

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PULA 37 - 38

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 250 500
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

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PULA 39 - 40

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 300 600
Feet

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PULA 40 - 41

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 300 600
Feet

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PULA 42 - 45

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 300 600
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

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PULA 46 - 47

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 300 600
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

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PULA 48 - 50

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 250 500
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

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PULA 51 - 56

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 300 600
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

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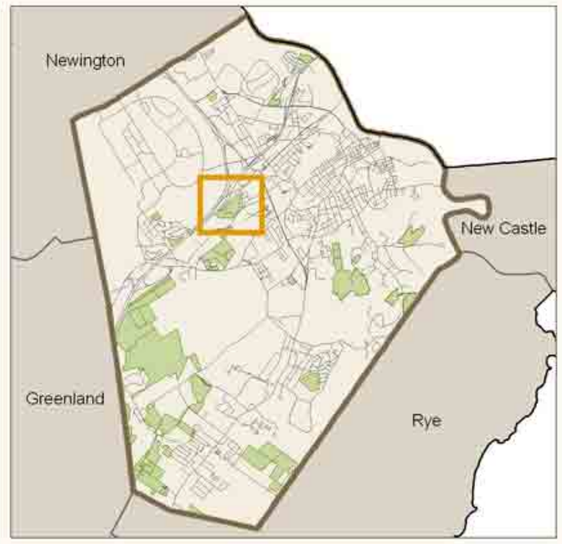
PULA 57 - 58

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary



0 200 400
Feet

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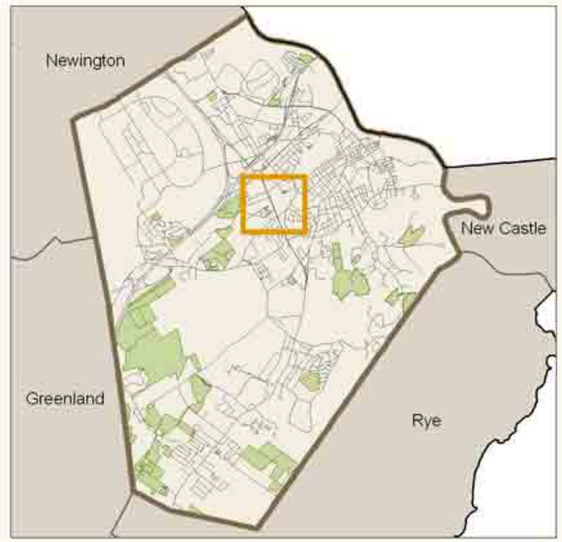
PULA 59 - 62 & 78

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary



0 200 400
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

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PULA 63 & 68

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 250 500
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

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PULA 64 - 67

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 150 300
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

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PULA 69 - 72

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 200 400
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

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PULA 73

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 200 400
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

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PULA 74

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 100 200
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

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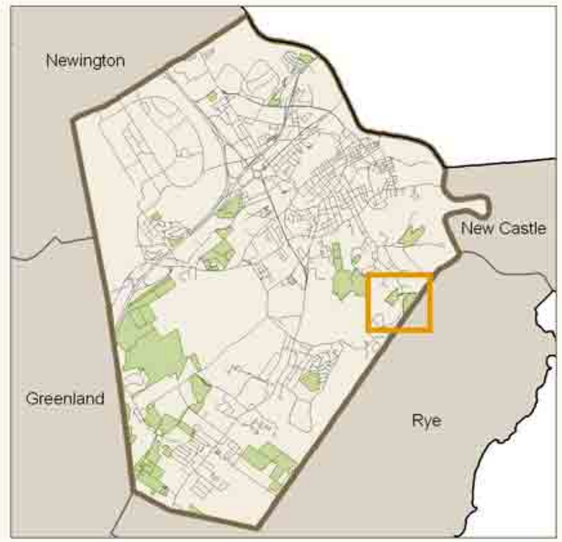
PULA 75 - 76

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary



0 200 400
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

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PULA 77

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 150 300
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

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PULA 79

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 100 200
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

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PULA 80 - 81

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 100 200
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

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PULA 82 - 84

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 100 200
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

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PULA 85 - 86

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 100 200
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

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PULA 87 - 90

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary

0 200 400
Feet

PULA boundaries based on City of Portsmouth parcel mapping. Feature locations from 2009 natural resources assessment by West Environmental. The following datasets were mapped at 1:24,000 and distributed by NH GRANIT: roads, from NH DOT; streams, rivers, and water bodies, from the NH Hydrography Dataset, mapped by USGS, US EPA, and NH DES; town boundaries, from USGS; railroads from USGS. Background images are 2006 aerial photographs from City of Portsmouth or 2005 aerial photographs from NH DOT.

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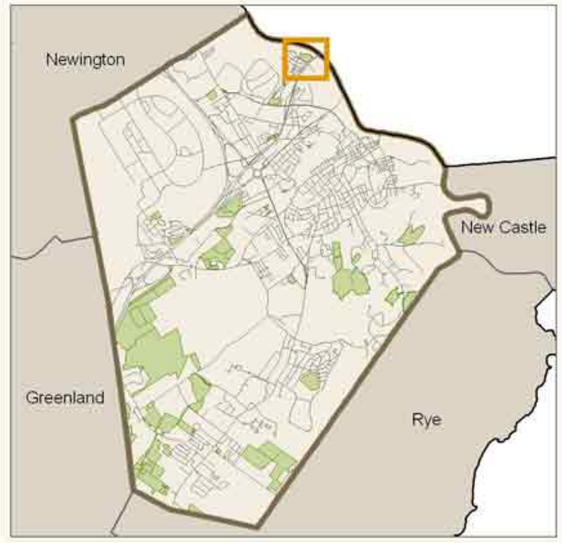
PULA 91

Public Undeveloped Lands Assessment
Portsmouth, NH

- Access
- Parking
- Historical feature
- Watercraft Access
- Invasive species
- Rare plant
- Rare animal
- Dumping
- Wetland Fill
- Non-point Source Discharge
- Trail
- Wildlife corridor
- Trail and Wildlife corridor
- Stonewall
- PULA Boundary
- City Boundary



0 100 200
Feet

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PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 1 Acres: 9.16 Date Visited: 06-Aug-09

Tax Map/Lot #: 0298-0005-0001 Group ID: Scientist: Earle Chase

Address: Route 1 (Lafayette Road

Nearest Road: On-site Distance from Road (ft): ☑ Boundary ID present

Type of Road: 2-lane paved

Access Description: Very difficult due to wetlands on adjacent properties and very thick vegetation.

Existing Structures on Site: ☐ Historical features North Hampton town line

Adjacent Land Uses (check all that apply):

☐ Forest ☐ Shrubland ☐ Grassland ☐ Residential

☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☑ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 100 Open Water: Other:

Topography: flat

Streams:

☐ Ephemeral ☐ Intermittent ☑ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☑ Shallow marsh ☐ Deep marsh

☑ Shrub swamp ☐ Bog ☑ Forested wetland ☐ Atlantic white cedar

☑ Prime wetland ☐ Vernal pool

Description of wetlands: The entire parcel is wetland. Two streams are found at the tract. The western end is emergent

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Specific Habitat Features/ Type: Scrub-shrub, thick cover
Vertical Stratification: High
Highest Ranked Habitat: Biological Region
☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☐ Upland Connectivity

Wildlife Observations

Nearby white pine stand (south of trailer park) contains a white-tailed deer

Habitat Degradation

% of Buffer with Encroachment: 0
☑ Invasive Specie (List): Buckthorn
☐ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☐ Structures obstructing wildlife movement?
☐ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☐ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☐ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description: None - no access; tract is too wet.

Describe Recreational Access:

Access was gained by entering a large field (north of State Street Discount). On eastern end of field an old woods road was followed to property boundary.

Storm Water Data

Watershed ID (HUC12) Berry's Brook-Rye
☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils: Very poorly drained

BMP type?

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments:

PULA ID: 1

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 2 Acres: 0.07 Date Visited: 04-Aug-09

Tax Map/Lot #: 0298-0008-0000 Group ID: Scientist: Earle Chase

Address: Route 1 (Lafayette Road) next to State Street Discount

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Nearest Road: Adjacent to site Distance from Road (ft): ☑ Boundary ID present

Type of Road: 2-lane paved

Access Description:

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☐ Forest	☐ Shrubland	☐ Grassland	☐ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☑ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☐ Other:

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 100 Open Water: Other:

Topography: flat

Streams:

☐ Ephemeral ☐ Intermittent ☑ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☑ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☑ Shrub swamp ☐ Bog ☑ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands:

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat
☐ Critical Features

Specific Habitat Features/ Type: Very thick vegetative cover, adjoining beaver flowage

Vertical Stratification: High

Highest Ranked Habitat: Biological Region

☑ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)
☑ Wetland Connectivity
☐ Upland Connectivity

Wildlife Observations

Nearby beaver dam

Habitat Degradation

% of Buffer with Encroachment: 33

☑ Invasive Specie (List): buckthorn, purple loosestrife

☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☑ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description: Improve stormwater management at adjacent commercial property

Recommendations to improve access or overall potential:

Development Potential

Description: no

Describe Recreational Access:

This parcel abuts conservation land in North Hampton

Storm Water Data

Watershed ID (HUC12) Berry's Brook-Rye

☑ Upstream sources of pollution
☑ Erosion/sedimentation observed
☑ Stabilization needed
☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☑ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils: very poorly drained

BMP type? Drainage swale/detention basin to capture sediment from adjacent parking lot.

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments:

PULA ID: 2

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 3 Acres: Date Visited: 01-Jul-09

Tax Map/Lot #: 0296-0004-0000 Group ID: Scientist: Mark West

Address: Off Coach Road

Nearest Road: Adjacent to site Distance from Road (ft): 600 ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Off of trail through Group 8 parcels #8 & 5.

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☑ Forest ☐ Shrubland ☐ Grassland ☐ Residential

☐ Pasture ☐ Freshwater Wetland ☐ Open Water ☑ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 100 Open Water: Other:

Topography: Flat.

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☑ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands:

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat
☐ Critical Features

Specific Habitat Features/ Type:

Vertical Stratification: Moderate

Highest Ranked Habitat: State

☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☐ Upland Connectivity

Wildlife Observations

Habitat Degradation

% of Buffer with Encroachment: 0

☐ Invasive Specie (List):

☐ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☐ Structures obstructing wildlife movement?
☐ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☐ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☐ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☐ Existing Conservation Land

Describe Recreational Access:

Restoration/Property Potential

Description: Small remote parcel.

Recommendations to improve access or overall potential:

Development Potential

Description:

Storm Water Data

Watershed ID (HUC12) Berry's Brook-Rye

☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

BMP type?

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: This parcel is very small and does not have very good access.

PULA ID: 3

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 4 Acres: 0.14 Date Visited: 28-Jul-09

Tax Map/Lot #: 0296-0001-0000 Group ID: A Scientist: Earle Chase

Address: Off Ocean Road

Nearest Road: Adjacent to site Distance from Road (ft): 1000 ☑ Boundary ID present

Type of Road: 2-lane paved

Access Description: Ocean Road to the railroad track crossing; continue south following the railroad tracks this parcel is situated on the eastside

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☑ Forest	☐ Shrubland	☐ Grassland	☐ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☐ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☑ Other: Railroad tracks

Habitat Types Present (percent cover):

Forest:	25	Shrub/Old Field:		Grass/Forb:		Cultivated:	
Pasture:		Wetland:	75	Open Water:		Other:	

Topography: flat

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

	☐ Wet Meadow	☐ Shallow marsh	☐ Deep marsh
☑ Shrub swamp	☐ Bog	☑ Forested wetland	☐ Atlantic white cedar
☑ Prime wetland	☐ Vernal pool		

Description of wetlands: this wetland is forested with red maple and eastern hemlock being the dominant species. Cinnamon and sensitive fern are located in the herb layer

Dominant Upland Forest (percent):

Early successional:		Northern hardwood:		Red maple:	50	Hemlock:	50
Oak/pine:		White pine:		Other:			

Description of forest:

Forest Age Class (percent):

Regeneration-seedling:		Sapling-pole:	50	Mature:	50	Old growth:	

Logging evidence: 20+ years ago Type of cut: Selective cut

☐ NH Natural Heritage Data?

☐ Rare Plant Community No- although the existing plant community is very similar to the plant community observed on parcel #9 (red maple sensitive fen swamp)

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification: High
Highest Ranked Habitat:
☐ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: scrub /shrub wetlands, thick vegetative coverage

Connectivity

☐ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Habitat Degradation

% of Buffer with Encroachment: 20

☐ Invasive Specie (List):

☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☐ Dumping?
☑ ATV Activity?

Recreational Value/Potential

☐ Parking Available
☐ Watercraft Access
☐ Fishing Available
☑ Hunting Permitted
☑ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description: no- there is no access & the parcel is wet

Describe Recreational Access:

Ocean Road to the railroad track crossing; continue south following the railroad tracks this parcel is situated on the eastsid

Storm Water Data

Watershed ID (HUC12) Winnicut River

☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments:

PULA ID: 4

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 5 Acres: 1.05 Date Visited: 01-Dec-09

Tax Map/Lot #: 0296-0006-0000 Group ID: A Scientist: Mark West

Address: Lafayette & Coach Roads

Nearest Road: Adjacent to site Distance from Road (ft): 1000 ☑ Boundary ID present

Type of Road: 2-lane paved

Access Description: access from the end of Coach Road through PULA parcel 8

Existing Structures on Site: ☐ Historical features Sewer line

Adjacent Land Uses (check all that apply):

☑ Forest ☐ Shrubland ☐ Grassland ☐ Residential

☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: 20 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 60 Open Water: Other: 20

Topography: flat

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☑ Forested wetland ☐ Atlantic white cedar

☑ Prime wetland ☐ Vernal pool

Description of wetlands: Red Maple swamp and Eastern Hemlock Swamp

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: 30 Hemlock: 30

Oak/pine: White pine: Other:

Description of forest: edges of sewer line

Forest Age Class (percent):

Regeneration-seedling: 40 Sapling-pole: Mature: 60 Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community Mapped incorrectly as Atlantic White Cedar - Yellow Birch- sweet pepperbush swamp. No Atlantic cedar observed.

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: Moderate

Highest Ranked Habitat: State

☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)

☑ Wetland Connectivity

☑ Upland Connectivity

Wildlife Observations

Deer tracks, grey squirrel

Habitat Degradation

% of Buffer with Encroachment:

☑ Invasive Specie (List): Multiflora Rose

☐ Activities adversely affecting wildlife function?

☐ Significant Disturbance?

☐ Structures obstructing wildlife movement?

☐ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☐ Parking Available

☐ Watercraft Access

☐ Fishing Available

☑ Hunting Permitted

☑ Walking/Biking Trails

☑ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☑ Existing Conservation Land

Restoration/Property Potential

Description: Sewer line could serve as a trail?

Recommendations to improve access or overall potential:

Development Potential

Description: no

Describe Recreational Access:

access is limited due to distance from site and wetlands

Storm Water Data

Watershed ID (HUC12) Berry's Brook-Rye

☐ Upstream sources of pollution

☐ Erosion/sedimentation observed

☐ Stabilization needed

☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land

☑ Underlying Aquifers and Transmissivity

☑ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: small parcel mostly wetland- only upland is sewer line corridor

PULA ID: 5

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 6 Acres: 2.03 Date Visited: 01-Jul-09

Tax Map/Lot #: 0297-0004-0003 Group ID: A Scientist: Mark West

Address: Coach Road

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Coach Road is a chained (closed) cul-de-sac with plenty of parking on the road

Existing Structures on Site: ☐ Historical features road and drainage structures

Adjacent Land Uses (check all that apply):

☑ Forest	☑ Shrubland	☐ Grassland	☐ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☑ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☑ Abandoned/Disturbed	☐ Other:

Habitat Types Present (percent cover):

Forest: 40 Shrub/Old Field: 10 Grass/Forb: Cultivated:

Pasture: Wetland: 50 Open Water: Other:

Topography: slopes south and west towards wetlands

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

	☐ Wet Meadow	☑ Shallow marsh	☐ Deep marsh
☑ Shrub swamp	☐ Bog	☑ Forested wetland	☐ Atlantic white cedar
☐ Prime wetland	☐ Vernal pool		

Description of wetlands: A mix of speckled alder, red maple swamp and shallow marsh areas.

Dominant Upland Forest (percent):

Early successional: 10 Northern hardwood: 90 Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest: a few large trees otherwise thick scrub shrub

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 90 Mature: Old growth: 10

Logging evidence: 10-20 years ag Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community no

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat
☐ Critical Features
Specific Habitat Features/ Type:

Vertical Stratification: Moderate
Highest Ranked Habitat:
☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

catbird, bluejay, chipmunk

Habitat Degradation

% of Buffer with Encroachment: 45

☑ Invasive Specie (List): phragmites

☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☐ Structures obstructing wildlife movement?
☑ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☑ Hunting Permitted
☐ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description: old fill piles adjacent to road in wetland

Recommendations to improve access or overall potential: plenty of potential to improve access if desired

Development Potential

Description: None - conservation easement

Describe Recreational Access:

Coach Road has a chain across it but parking is available as well as foot access.

Storm Water Data

Watershed ID (HUC12) Berry's Brook-Rye

☑ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☑ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

BMP type? road could be removed

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: Property has a conservation easement held by SELTNH. Large cul-de-sac could be removed as commercial park was never constructed.

PULA ID: 6

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 7 Acres: 2.07 Date Visited: 01-Jul-09

Tax Map/Lot #: 0297-0004-003A Group ID: A Scientist: Mark west

Address: Coach Road

Nearest Road: On-site Distance from Road (ft): ☑ Boundary ID present

Type of Road: 2-lane paved

Access Description: Chain across road but parking at this location

Existing Structures on Site: ☐ Historical features road and drainage structures

Adjacent Land Uses (check all that apply):

☑ Forest ☑ Shrubland ☐ Grassland ☐ Residential

☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☑ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: 20 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 100 Open Water: Other:

Topography: flat to sloping south

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☑ Shallow marsh ☐ Deep marsh

☑ Shrub swamp ☐ Bog ☑ Forested wetland ☐ Atlantic white cedar

☑ Prime wetland ☐ Vernal pool

Description of wetlands: part of a large wetland complex

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: Moderate

Highest Ranked Habitat: State

☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)

☑ Wetland Connectivity

☑ Upland Connectivity

Wildlife Observations

Habitat Degradation

% of Buffer with Encroachment: 15

☑ Invasive Specie (List): phragmites, purple loosestrife

☑ Activities adversely affecting wildlife function?

☑ Significant Disturbance?

☐ Structures obstructing wildlife movement?

☑ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☐ Walking/Biking Trails

☐ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☐ Existing Conservation Land

Restoration/Property Potential

Description: Fill adjacent to culdesac

Recommendations to improve access or overall potential: restoration and stormwater possible

Development Potential

Description: no- conservation easement

Describe Recreational Access:

Access on coach road with parking.

Storm Water Data

Watershed ID (HUC12) Berry's Brook-Rye

☑ Upstream sources of pollution

☑ Erosion/sedimentation observed

☑ Stabilization needed

☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land

☑ Underlying Aquifers and Transmissivity

☐ Sand & Gravel Deposits

Soils:

BMP type? treatment swale- culdesac drains into wetland and old fill piles appear to be wetland fill

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: Conservation easement includes several of the group A parcels. Wetland restoration site.

PULA ID: 7

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 8 Acres: 22.72 Date Visited: 01-Jul-09

Tax Map/Lot #: 0297-0004-0000 Group ID: A Scientist: Mark West

Address: Coach Road

Nearest Road: Adjacent to site Distance from Road (ft): 25 ☑ Boundary ID present

Type of Road: 2-lane paved

Access Description: cul-de-sac borders the site, but closed 300' from site

Existing Structures on Site: ☐ Historical features sewer line

Adjacent Land Uses (check all that apply):

☑ Forest	☐ Shrubland	☐ Grassland	☐ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☑ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☑ Other: sewer

Habitat Types Present (percent cover):

Forest: 30 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 65 Open Water: Other: 5 sewerline

Topography: flat in wetland some elevation in upland

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow	☐ Shallow marsh	☐ Deep marsh	
☐ Shrub swamp	☐ Bog	☑ Forested wetland	☑ Atlantic white cedar
☑ Prime wetland	☐ Vernal pool		

Description of wetlands: includes rare plant community

Dominant Upland Forest (percent):

Early successional: Northern hardwood: 30 Red maple: Hemlock:

Oak/pine: 30 White pine: 30 Other:

Description of forest: mature forest island of upland in western portion of site

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 20 Mature: 80 Old growth:

Logging evidence: 20+ years ago Type of cut:

☑ NH Natural Heritage Data?

☑ Rare Plant Community Atlantic White Cedar - Yellow Birch - Sweet pepperbush swamp. Red Maple sensitive fen swamp

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat
☐ Critical Features

Specific Habitat Features/ Type:

Vertical Stratification: High

Highest Ranked Habitat: State

☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Hairy Woodpecker

Habitat Degradation

% of Buffer with Encroachment: 0

☑ Invasive Specie (List):

☐ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☐ Structures obstructing wildlife movement?
☐ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☑ Hunting Permitted
☑ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Could utilize sewer line and maybe connect to Coach Road

Development Potential

Description: no

Describe Recreational Access:

Access off culdesac from Coach Road. Wetland limits acccess to uplands in western portion of site.

Storm Water Data

Watershed ID (HUC12) Berry's Brook-Rye

☑ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☑ Underlying Aquifers and Transmissivity
☑ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: Nice site with rare plant communities but wetlands limit access.

PULA ID: 8

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 9 Acres: 1.62 Date Visited: 28-Jul-09

Tax Map/Lot #: 0296-0009-0000 Group ID: A Scientist: Earle Chase

Address: off Ocean Road

Nearest Road: Adjacent to site Distance from Road (ft): ☐ Boundary ID present

Type of Road:

Access Description:

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☑ Forest	☐ Shrubland	☐ Grassland	☐ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☐ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☑ Other: rail road tracks

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: Open Water: Other:

Topography: flat

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

	☐ Wet Meadow	☐ Shallow marsh	☐ Deep marsh
☑ Shrub swamp	☐ Bog	☑ Forested wetland	☑ Atlantic white cedar
☑ Prime wetland	☐ Vernal pool		

Description of wetlands: The dominant trees are Red Maple and Atlantic White Cedar with interspersed black spruce

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☑ NH Natural Heritage Data?

☑ Rare Plant Community Yes NHNHB identified a red maple, sensitive fern exemplary community and also green adder's mouth.

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification: High
Highest Ranked Habitat: State
☐ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: scrub/ shrub wetlands

Connectivity

☐ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Because this parcel contains an exemplary plant community, overall diversity may be increased.

Habitat Degradation

% of Buffer with Encroachment: 10

☐ Invasive Specie (List):

☐ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☐ Structures obstructing wildlife movement?
☐ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☐ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☑ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☐ Existing Conservation Land

Describe Recreational Access:

Adjacent to other city owned properties.

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: There is the potential to improve the hydrological connection between existing wetlands.

Development Potential

Description: No - the parcel is too wet.

Storm Water Data

Watershed ID (HUC12) Winnicut River

☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

BMP type? Add box culverts to increase overall hydrological connectivity (the pre-existing wetland system was divided by the railroad tracks.

Potential Property Liabilities:

☐ Homeless Activity
☑ Safety Hazard In close proximity to the railroad tracks
☐ Hazardous Waste Possible

Comments:

PULA ID: 9

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 10 Acres: 7.22 Date Visited: 28-Jul-09

Tax Map/Lot #: 0295-0001-0000 Group ID: A Scientist: Earle Chase

Address: off ocean road

Nearest Road: Adjacent to site Distance from Road (ft): 2000 ☑ Boundary ID present

Type of Road: 2-lane paved

Access Description: Ocean Road to Railroad track crossing. Continue south following the Railroad tracks, this parcel is situated on the west.

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☑ Forest	☐ Shrubland	☐ Grassland	☐ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☐ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☑ Other: railroad tracks

Habitat Types Present (percent cover):

Forest:		Shrub/Old Field:		Grass/Forb:		Cultivated:	
Pasture:		Wetland:	100	Open Water:		Other:	

Topography: flat

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

	☐ Wet Meadow	☐ Shallow marsh	☐ Deep marsh
☑ Shrub swamp	☐ Bog	☑ Forested wetland	☑ Atlantic white cedar
☑ Prime wetland	☐ Vernal pool		

Description of wetlands: This wetland is an Atlantic White Cedar scrub/shrub forested wetland. Highbush blueberry is the predominant shrub species unlike 11 & 12 where pepperbush dominates

Dominant Upland Forest (percent):

Early successional:		Northern hardwood:		Red maple:		Hemlock:	
Oak/pine:		White pine:		Other:			

Description of forest:

Forest Age Class (percent):

Regeneration-seedling:		Sapling-pole:		Mature:		Old growth:	

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☑ Rare Plant Community The NH natural heritage Bureau has confirmed the presence of a Atlantic White Cedar-yellow birch- pepperbush swamp exemplary community.

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification: High
Highest Ranked Habitat: State
☐ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: scrub/shrub wetland

Connectivity

☐ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Exemplary plant communities often provide refuge to a variety of wildlife species.

Habitat Degradation

% of Buffer with Encroachment: 33
☑ Invasive Specie (List): buckthorn on the perimeter
☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☐ Dumping?
☑ ATV Activity?

Recreational Value/Potential

☐ Parking Available
☐ Watercraft Access
☐ Fishing Available
☑ Hunting Permitted
☑ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Potential to improve hyrdological connection between east and west wetlands.

Development Potential

Description: No - the parcel is mostly wet.

Describe Recreational Access:

Adjacent to town owned and nature conservancy land. Ocean Road to Railroad crossing. Continue southwesterly via the RR tracks. The parcel is situated along the western side

Storm Water Data

Watershed ID (HUC12) Winnicut River
☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

BMP type? Add box culverts to increase overall hyrological connectivity (the pre-existing wetland system was divided by the railroad tracks).

Potential Property Liabilities:

☐ Homeless Activity
☑ Safety Hazard Parking access is next to the railroad tracks
☐ Hazardous Waste Possible

Comments: Due to the location of the contiguous parcels #5-18, the value of this parcel is accentuated by the combined acreage.

PULA ID: 10

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 11 Acres: 2.92 Date Visited: 28-Jul-09

Tax Map/Lot #: 0295-0002-0000 Group ID: A Scientist: Earle Chase

Address: off Ocean Road

Nearest Road: Adjacent to site Distance from Road (ft): ☑ Boundary ID present

Type of Road:

Access Description: Off Ocean road to Railroad tracks

Existing Structures on Site: ☐ Historical features railroad tracks

Adjacent Land Uses (check all that apply):

☑ Forest	☐ Shrubland	☐ Grassland	☐ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☐ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☑ Other: railroad tracks

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 100 Open Water: Other:

Topography: flat

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

	☐ Wet Meadow	☐ Shallow marsh	☐ Deep marsh
☑ Shrub swamp	☐ Bog	☑ Forested wetland	☑ Atlantic white cedar
☑ Prime wetland	☐ Vernal pool		

Description of wetlands: This is a Atlantic White Cedar scrub/shrub- forested wetland. 90% of the composition is Atlantic White Cedar.

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☑ Rare Plant Community Yes- the NH Natural Heritage Bureau has confirmed the prescence of and Atlantic White Cedar- Yellow Birch- Pepperbush swamp exemplary plant community.

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification: High
Highest Ranked Habitat: State
☐ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: scrub- shrub wetland

Connectivity

☐ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

the existing exemplary plant community may increase overall wildlife diversity

Habitat Degradation

% of Buffer with Encroachment: 25
☑ Invasive Specie (List): buckthorn on perimeter
☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☐ Dumping?
☑ ATV Activity?

Recreational Value/Potential

☐ Parking Available
☐ Watercraft Access
☐ Fishing Available
☑ Hunting Permitted
☑ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Potential to improve hyrdological connection between east and west wetland components

Development Potential

Description: No- the parcel is entirely wet

Describe Recreational Access:

Adjacent to town owned and Nature Conservency Land. Ocean Road to Railroad crossing- continue southwesterly via the railroad tracks. The parcel is situated on the west

Storm Water Data

Watershed ID (HUC12) Winnicut river
☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

BMP type? Add box culvert(s) to increase/restore the overall hydrological connectivity (the pre-existing wetland system was divided by the railroad tracks)

Potential Property Liabilities:

☐ Homeless Activity
☑ Safety Hazard parking access is next to the railroad tracks
☐ Hazardous Waste Possible

Comments: Due to the location of contiguous parcels 5-18, the value of this parcel isw accentuated by the combined acreage.

PULA ID: 11

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 12 Acres: 4.24 Date Visited: 28-Jul-09

Tax Map/Lot #: 0295-0003-0000 Group ID: A Scientist: Earle Chase

Address: off Ocean road along railroad

Nearest Road: Adjacent to site Distance from Road (ft): ☑ Boundary ID present

Type of Road:

Access Description:

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☑ Forest ☐ Shrubland ☐ Grassland ☐ Residential

☐ Pasture ☐ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☑ Other: railroad

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 100 Open Water: Other:

Topography: flat

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☑ Shrub swamp ☐ Bog ☐ Forested wetland ☑ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands: Atlantic White Cedar- yellow pepperbush swamp with interspersed white pine and red maple; winterberry also a dominant shrub

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☑ NH Natural Heritage Data?

☑ Rare Plant Community Yes- the Nh Natural Heritage Bureau has confirmed prescence of a Atlantic White Cedar-yellow birch- pepperbush swamp plant community.

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification: High
Highest Ranked Habitat: State
☐ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: Scrub-shrub- thick vegetative cover

Connectivity

☐ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Bluejay (audio)

Habitat Degradation

% of Buffer with Encroachment: 50

☑ Invasive Specie (List): buckthorn
☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☐ Dumping?
☑ ATV Activity?

Recreational Value/Potential

☐ Parking Available
☐ Watercraft Access
☐ Fishing Available
☑ Hunting Permitted
☑ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description: Restore improve hydrological connection with #13 & 18

Recommendations to improve access or overall potential: Aquire safer parking for general public.

Development Potential

Description: No- too wet.

Describe Recreational Access:

Small pull out where the railroad tracks intersect with Ocean Road.

Storm Water Data

Watershed ID (HUC12) Winnicut River

☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

BMP type?

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☑ Underlying Aquifers and Transmissivity
☑ Sand & Gravel Deposits

Soils:

Potential Property Liabilities:

☐ Homeless Activity
☑ Safety Hazard Parking access situated in very close proximity to railroad tracks.
☐ Hazardous Waste Possible

Comments: Nearby Nature Conservancy land and proximity to wetlands #13 & 16 increase the value of this wetland.

PULA ID: 12

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 13 Acres: 1.24 Date Visited: 28-Jul-09

Tax Map/Lot #: 0296-0008-0000 Group ID: A Scientist: Earle Chase

Address: Adjacent railroad tracks access from the South Ocean Road; parcel is east of tracks

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Nearest Road: Adjacent to site Distance from Road (ft): ☐ Boundary ID present

Type of Road:

Access Description:

Existing Structures on Site: ☐ Historical features adjacent to railroad tracks

Adjacent Land Uses (check all that apply):

☐ Forest ☐ Shrubland ☐ Grassland ☐ Residential

☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☑ Other: railroad tracks

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 100 Open Water: Other:

Topography:

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands: ☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☑ Forested wetland ☑ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands: Dominant trees are Red Maple and Atlantic White Cedar, with interspersed Black Spruce

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☑ NH Natural Heritage Data?

☑ Rare Plant Community Yes. NH Natural Heritage Bureau identified a red maple- sensitive fern plant community and the plant Green adder's mouth.

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification: High
Highest Ranked Habitat: State
☐ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: scrub-shrub wetland; thick vegetative cover

Connectivity

☐ Corridor (through or adjacent)
☑ Wetland Connectivity
☐ Upland Connectivity

Wildlife Observations

Habitat Degradation

% of Buffer with Encroachment: 50

☐ Invasive Specie (List):
☐ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☐ Structures obstructing wildlife movement?
☐ Dumping?
☑ ATV Activity?

Recreational Value/Potential

☐ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☑ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description: No- parcel is entirely wet.

Describe Recreational Access:

Adjacent to other Portsmouth owned conservation parcels

Storm Water Data

Watershed ID (HUC12) Winnicut River

☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

BMP type?

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☑ Underlying Aquifers and Transmissivity
☑ Sand & Gravel Deposits

Soils:

Potential Property Liabilities:

☐ Homeless Activity
☑ Safety Hazard Nearby railroad tracks
☐ Hazardous Waste Possible

Comments:

PULA ID: 13

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 14 Acres: 4.30 Date Visited: 28-Jul-09

Tax Map/Lot #: 0296-0010-0000 Group ID: A Scientist: Earle Chase

Address: Adjacent to railroad tracks off Ocean Road

Nearest Road: Adjacent to site Distance from Road (ft): ☐ Boundary ID present

Type of Road:

Access Description:

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☐ Forest	☐ Shrubland	☐ Grassland	☐ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☐ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☑ Other: railroad tracks

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 100 Open Water: Other:

Topography: flat

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

	☐ Wet Meadow	☐ Shallow marsh	☐ Deep marsh
☑ Shrub swamp	☐ Bog	☑ Forested wetland	☑ Atlantic white cedar
☑ Prime wetland	☐ Vernal pool		

Description of wetlands:

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☑ NH Natural Heritage Data?

☑ Rare Plant Community Yes- NHNHB identified a Red Maple-sensitive fern exemplary plant community at that parcel. The rare plant Green Adder's Mouth (Malaxis unifolia) was also identified.

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification:

Highest Ranked Habitat: State

☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)

☑ Wetland Connectivity

☐ Upland Connectivity

Wildlife Observations

Habitat Degradation

% of Buffer with Encroachment: 0

☐ Invasive Specie (List):

☐ Activities adversely affecting wildlife function?

☐ Significant Disturbance?

☐ Structures obstructing wildlife movement?

☐ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☐ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☐ Walking/Biking Trails

☐ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description:

Describe Recreational Access:

Access through PULA #15, but this is all wetland.

Storm Water Data

Watershed ID (HUC12) Winnicut River

☐ Upstream sources of pollution

☐ Erosion/sedimentation observed

☐ Stabilization needed

☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land

☐ Underlying Aquifers and Transmissivity

☐ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: Part of a large, forested wetland with some Atlantic White Cedar stands.

PULA ID: 14

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 15 Acres: 10.24 Date Visited: 01-Dec-09

Tax Map/Lot #: 0296-0011-0000 Group ID: A Scientist: Mark West

Address: Lafayette Road- Coach Road

Nearest Road: Adjacent to site Distance from Road (ft): 800 ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Access from Coach Road through PULA parcel 8 through wetlands

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☑ Forest ☐ Shrubland ☐ Grassland ☐ Residential

☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☑ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 100 Open Water: Other:

Topography: flat

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands: ☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☑ Shrub swamp ☐ Bog ☑ Forested wetland ☑ Atlantic white cedar

☑ Prime wetland ☐ Vernal pool

Description of wetlands:

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☑ NH Natural Heritage Data?

☑ Rare Plant Community Atlantic White Cedar Yellow Birch- sweet pepperbush

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification:

Highest Ranked Habitat: State

☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)

☑ Wetland Connectivity

☐ Upland Connectivity

Wildlife Observations

Habitat Degradation

% of Buffer with Encroachment: 0

☐ Invasive Specie (List):

☐ Activities adversely affecting wildlife function?

☐ Significant Disturbance?

☐ Structures obstructing wildlife movement?

☐ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available

☐ Watercraft Access

☐ Fishing Available

☑ Hunting Permitted

☑ Walking/Biking Trails

☑ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description: wetland

Describe Recreational Access:

Best access is off Coach Road and through PULA parcel 8 (wetland)

Storm Water Data

Watershed ID (HUC12) Winnicut River, Be

☐ Upstream sources of pollution

☐ Erosion/sedimentation observed

☐ Stabilization needed

☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land

☑ Underlying Aquifers and Transmissivity

☑ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: This parcel is all wetland and includes a rare plant community of Atlantic White Cedar- Yellow Birch - Sweet Pepperbush.

PULA ID: 15

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 16 Acres: 2.04 Date Visited: 01-Dec-09

Tax Map/Lot #: 0296-0012-0000 Group ID: A Scientist: Mark West

Address: Off Lafayette Ocean

Nearest Road: Adjacent to site Distance from Road (ft): 750 ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Access through PULA parcels 8&15 off Coach road or Railroad bed off Ocean Road

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☑ Forest ☐ Shrubland ☐ Grassland ☐ Residential

☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 100 Open Water: Other:

Topography: flat

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands: ☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☐ Forested wetland ☑ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands: entire site is Atlantic White Cedar Swamp

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☑ NH Natural Heritage Data?

☑ Rare Plant Community Atlantic White Cedar- Yellow Birch- Sweet pepperbush swamp

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification:

Highest Ranked Habitat: State

☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)

☑ Wetland Connectivity

☑ Upland Connectivity

Wildlife Observations

White tail deer tracks, Blackcapped chickadee

Habitat Degradation

% of Buffer with Encroachment: 0

☐ Invasive Specie (List):

☐ Activities adversely affecting wildlife function?

☐ Significant Disturbance?

☐ Structures obstructing wildlife movement?

☐ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☐ Parking Available

☐ Watercraft Access

☐ Fishing Available

☑ Hunting Permitted

☐ Walking/Biking Trails

☐ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description:

Describe Recreational Access:

Access to Group A from East Coach Road. From north, railroad tracks off of Ocean Road.

Storm Water Data

Watershed ID (HUC12) Winnicut River

☐ Upstream sources of pollution

☐ Erosion/sedimentation observed

☐ Stabilization needed

☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land

☑ Underlying Aquifers and Transmissivity

☑ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: Entire site is wetlands. Atlantic White Cedar swamp.

PULA ID: 16

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 17 Acres: 1.62 Date Visited: 28-Jul-09

Tax Map/Lot #: 0296-0013-0000 Group ID: A Scientist: Earle Chase

Address: Adjacent railroad track, access south from Ocean Road; parcel is east of tracks

---

Nearest Road: Adjacent to site Distance from Road (ft): ☐ Boundary ID present

Type of Road:

Access Description:

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☐ Forest	☐ Shrubland	☐ Grassland	☐ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☐ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☑ Other:

Habitat Types Present (percent cover):

Forest:	1	Shrub/Old Field:		Grass/Forb:		Cultivated:	
Pasture:		Wetland:	99	Open Water:		Other:	

Topography: flat

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow	☐ Shallow marsh	☐ Deep marsh	
☑ Shrub swamp	☐ Bog	☑ Forested wetland	☑ Atlantic white cedar
☐ Prime wetland	☐ Vernal pool		

Description of wetlands: 50% red maple, 45% Atlantic Wite Cedar, Black spruce & Hemlock; thick shrub layer of Pepperbush. In addition there is a thick herb layer consisting of skunk cabbage, jewelweed, and smartweed. Standing water was evident.

Dominant Upland Forest (percent):

Early successional:		Northern hardwood:		Red maple:		Hemlock:	
Oak/pine:		White pine:		Other:			

Description of forest:

Forest Age Class (percent):

Regeneration-seedling:		Sapling-pole:		Mature:		Old growth:	

Logging evidence: Type of cut:

☑ NH Natural Heritage Data?

☑ Rare Plant Community NHNHB identified a red maple sensitive fern exemplary plant community and Green Adder's mouth as a rare plant.

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification: High
Highest Ranked Habitat: State
☐ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: Scrub - shrub wetland with thick vegetative cover

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

black capped chickadee

Habitat Degradation

% of Buffer with Encroachment:

☐ Invasive Specie (List):

☐ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☐ Structures obstructing wildlife movement?
☑ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☐ Parking Available
☐ Watercraft Access
☐ Fishing Available
☑ Hunting Permitted
☑ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Avoid using trail to encourage wildlife usage

Development Potential

Description: no- largely wet

Describe Recreational Access:

Ocean Road to intersection at railroad tracks; south on railroad tracks

Storm Water Data

Watershed ID (HUC12) Winnicut River

☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☑ Underlying Aquifers and Transmissivity
☑ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☑ Homeless Activity yes- observed abandonded campsite
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: Abutting Portsmouth-owned conservation parcels.

PULA ID: 17

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 18 Acres: 19.21 Date Visited: 28-Jul-09

Tax Map/Lot #: 0293-0010-0000 Group ID: A Scientist: Earle Chase

Address: Ocean road

Nearest Road: Adjacent to site Distance from Road (ft): ☐ Boundary ID present

Type of Road:

Access Description:

Existing Structures on Site: ☐ Historical features railroad is adjacent

Adjacent Land Uses (check all that apply):

☐ Forest	☐ Shrubland	☐ Grassland	☐ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☐ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☑ Other: adjacent to railroad

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 100 Open Water: Other:

Topography:

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

	☐ Wet Meadow	☐ Shallow marsh	☐ Deep marsh
☑ Shrub swamp	☐ Bog	☑ Forested wetland	☑ Atlantic white cedar
☐ Prime wetland	☐ Vernal pool		

Description of wetlands: Interspersed with black spruce

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☑ NH Natural Heritage Data?

☑ Rare Plant Community red maple-sensitive fern swamp present; also Green Adder's Mouth has been previously observed

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification: High
Highest Ranked Habitat: State
☐ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: scrub - shrub wetland with thick vegetative cover

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Wildlife trail- (white tailed deer)

Habitat Degradation

% of Buffer with Encroachment:

☐ Invasive Specie (List):

☐ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☐ Dumping?
☑ ATV Activity?

Recreational Value/Potential

☐ Parking Available
☐ Watercraft Access
☐ Fishing Available
☑ Hunting Permitted
☐ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Develop parking area access or overall potential

Development Potential

Description:

Describe Recreational Access:

Ocean Road to intersection of Railroad tracks; south on railroad R-O-W ; #18 situated on eastern side of railroad

Storm Water Data

Watershed ID (HUC12) Winnicut River

☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☑ Underlying Aquifers and Transmissivity
☑ Sand & Gravel Deposits

Soils: very poorly drained

BMP type?

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: Nearby Nature Conservancy, also other Portsmouth-owned conservation parcels are present.

PULA ID: 18

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 19 Acres: 3.58 Date Visited: 01-Dec-09

Tax Map/Lot #: 0292-0221-0000 Group ID: A Scientist: Mark West

Address: Nathaniel Drive

Nearest Road: On-site Distance from Road (ft): ☑ Boundary ID present

Type of Road: 2-lane paved

Access Description: walk down embankement at corner on Nathaniel Drive

Existing Structures on Site: ☐ Historical features sewer line

Adjacent Land Uses (check all that apply):

☑ Forest ☐ Shrubland ☐ Grassland ☑ Residential

☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☑ Other: mitigation area

Habitat Types Present (percent cover):

Forest: 20 Shrub/Old Field: Grass/Forb: 10 Cultivated:

Pasture: Wetland: 60 Open Water: Other: 10 detention basin

Topography: sloping northwest

Streams:

☐ Ephemeral ☑ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☑ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands: ☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☑ Forested wetland ☑ Atlantic white cedar

☑ Prime wetland ☐ Vernal pool

Description of wetlands:

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: 50 White pine: 50 Other:

Description of forest: small portion of the site is upland forest in eastern end

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: 100 Old growth:

Logging evidence: 20+ years ago Type of cut:

☑ NH Natural Heritage Data?

☑ Rare Plant Community Atlantic Wite Cedar - yellow birch- sweet pepperbush swamp

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification:

Highest Ranked Habitat: State

☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)

☑ Wetland Connectivity

☑ Upland Connectivity

Wildlife Observations

Habitat Degradation

% of Buffer with Encroachment: 30

☑ Invasive Specie (List): purple loosestrife in detention basin

☑ Activities adversely affecting wildlife function?

☐ Significant Disturbance?

☐ Structures obstructing wildlife movement?

☐ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☑ Walking/Biking Trails

☑ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: evaluate stormwater outfall south of detention basin

Development Potential

Description: no

Describe Recreational Access:

Minimal parking; road shoulder only.

Storm Water Data

Watershed ID (HUC12) Winnicut River

☑ Upstream sources of pollution

☑ Erosion/sedimentation observed

☑ Stabilization needed

☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land

☑ Underlying Aquifers and Transmissivity

☑ Sand & Gravel Deposits

Soils:

BMP type? outlet pipe from road located south of detention basin review DPW maps

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: Site has stormwater potential. Only a small area of Atlantic White Cedar present.

PULA ID: 19

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 20 Acres: 1.59 Date Visited: 01-Dec-09

Tax Map/Lot #: 0293-0002-0000 Group ID: A Scientist: Mark west

Address: Mariette Drive

Nearest Road: Adjacent to site Distance from Road (ft): 300 ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Between 2 houses west of intersection of Nathaniel and Mariette Drives

Existing Structures on Site: ☐ Historical features stormwater outfall

Adjacent Land Uses (check all that apply):

☑ Forest	☐ Shrubland	☐ Grassland	☑ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☐ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☐ Other:

Habitat Types Present (percent cover):

Forest: 50 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 50 Open Water: Other:

Topography:

Streams:

☐ Ephemeral ☑ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☑ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands: red maple - white pine swamp

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: 100 Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: 100 Old growth:

Logging evidence: 20+ years ago Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification:

Highest Ranked Habitat: State

☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)

☑ Wetland Connectivity

☑ Upland Connectivity

Wildlife Observations

Habitat Degradation

% of Buffer with Encroachment: 20

☐ Invasive Specie (List):

☑ Activities adversely affecting wildlife function?

☑ Significant Disturbance?

☐ Structures obstructing wildlife movement?

☐ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☐ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☐ Walking/Biking Trails

☐ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: evaluate stormwater outfall from Mariette Drive

Development Potential

Description: no

Describe Recreational Access:

Access through PULA parcel 19; road shoulder parking only

Storm Water Data

Watershed ID (HUC12) Winnicut River

☐ Upstream sources of pollution

☐ Erosion/sedimentation observed

☐ Stabilization needed

☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land

☑ Underlying Aquifers and Transmissivity

☑ Sand & Gravel Deposits

Soils:

BMP type? evaluate stormwater outfall options

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: Site has stormwater improvement potential.

PULA ID: 20

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 21 Acres: 1.28 Date Visited: 28-Jul-09

Tax Map/Lot #: 0295-0005-0000 Group ID: B Scientist: Earle Chase

Address: Landlocked

Nearest Road: Adjacent to site Distance from Road (ft): ☑ Boundary ID present

Type of Road:

Access Description:

Existing Structures on Site: ☐ Historical features stonewalls, past agricultural usage, Greenland town line

Adjacent Land Uses (check all that apply):

☑ Forest ☐ Shrubland ☐ Grassland ☐ Residential

☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☑ Other: nature conservancy

Habitat Types Present (percent cover):

Forest: 60 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 40 Open Water: Other:

Topography: surface stones, moderate slope ascending from wetland

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☑ Bog ☑ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands: Large diameter black birch were noted

Dominant Upland Forest (percent):

Early successional: Northern hardwood: 5 Red maple: Hemlock: 80

Oak/pine: White pine: 20 Other:

Description of forest: the dominant tree was Eastern White Pine intermixed with white pine and scattered black birch

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 20 Mature: 80 Old growth:

Logging evidence: 20+ years ago Type of cut: Selective cut

☑ NH Natural Heritage Data?

☑ Rare Plant Community Identified by NHNHB to be a rare Atlantic cedar- yellow birch pepperbush plant communty.

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features

Specific Habitat Features/ Type: wintertime cover /browse for white tailed deer.

Vertical Stratification: Low

Highest Ranked Habitat: State

☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Possible den site. White tailed deer (trail and scat), probably red squirrel/chipmunk, good wildlife structure (surface rocks, stone wall, fallen trees)

Habitat Degradation

% of Buffer with Encroachment:

☐ Invasive Specie (List):

☐ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☐ Structures obstructing wildlife movement?
☐ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☐ Parking Available
☐ Watercraft Access
☐ Fishing Available
☑ Hunting Permitted
☑ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: manage 21-22-23 in cooperation with the Nature Conservancy- establish mutual goals and protective measures

Development Potential

Description: No- too small / not accessible

Describe Recreational Access:

The adjacent parcel on the east is owned by the Nature Conservancy: conservation land is also located to the west in greenland

Storm Water Data

Watershed ID (HUC12) Winnicut River

☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

BMP type?

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils: very poorly drained

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: Parcel 21 is squeezed between 22 and the property owned by the Nature Conservancy. This complements its overall value. It is important to minimize human activity during winter months especially during extended snowfall.

PULA ID: 21

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 22 Acres: 3.65 Date Visited: 28-Jul-09

Tax Map/Lot #: 0295-0004-0000 Group ID: B Scientist: Earle Chase

Address: Via Ocean road to Ocean Road Village

Nearest Road: Adjacent to site Distance from Road (ft): ☑ Boundary ID present

Type of Road:

Access Description:

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☑ Forest	☐ Shrubland	☐ Grassland	☐ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☐ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☐ Other:

Habitat Types Present (percent cover):

Forest: 33 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 67 Open Water: Other:

Topography:

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

	☐ Wet Meadow	☐ Shallow marsh	☐ Deep marsh
☑ Shrub swamp	☐ Bog	☑ Forested wetland	☐ Atlantic white cedar
☐ Prime wetland	☐ Vernal pool		

Description of wetlands: red maple, yellow birch, interspersed hemlock and white pine; shrub layer and thick herb layer (large % of Cinnamon fern)

Dominant Upland Forest (percent):

Early successional: Northern hardwood: 5 Red maple: Hemlock: 60

Oak/pine: White pine: 20 Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 25 Mature: 75 Old growth:

Logging evidence: 20+ years ago Type of cut: Selective cut

☑ NH Natural Heritage Data?

☑ Rare Plant Community Identified by the NHNHB to contain a rare Atlantic white cedar - yellow birch- pepperbush plant community.

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification: Low
Highest Ranked Habitat: State
☐ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: Probable winter usage in concert with the Nature Conservancy land.

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

white tailed deer tracks,scat, probable corridor, chipmunk, red squirrel, hidden piles, fisher scat

Habitat Degradation

% of Buffer with Encroachment:

☐ Invasive Specie (List):

☐ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☐ Structures obstructing wildlife movement?
☐ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☑ Hunting Permitted
☐ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: develop and clear trail access

Development Potential

Description:

Describe Recreational Access:

From Ocean Road to Ocean Road Village; cul de sac at turnout

Storm Water Data

Watershed ID (HUC12) Winnicut River

☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils: very poorly drained

BMP type?

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: There is much activity by white-tailed deer in the adjacent parcel owned by the Nature Conservancy. Trails, presence of scat and wintertime browse suggest frequent usage. This should be emphasized as Portsmouth probably doesn't have many areas where white-tailed deer can winter over during winters with heavy snow fall.

PULA ID: 22

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 23 Acres: 5.14 Date Visited: 28-Jul-09

Tax Map/Lot #: 0294-0022-0000 Group ID: B Scientist: Earle Chase

Address: Landlocked

Nearest Road: Adjacent to site Distance from Road (ft): ☐ Boundary ID present

Type of Road:

Access Description:

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☐ Forest ☐ Shrubland ☐ Grassland ☐ Residential

☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☑ Other: greenland town line

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 100 Open Water: Other:

Topography:

Streams:

☐ Ephemeral ☐ Intermittent ☑ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands: ☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☑ Bog ☑ Forested wetland ☑ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands: Referred to as Packers Bog, this wetland extends into Greenland

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☑ NH Natural Heritage Data?

☑ Rare Plant Community Identified by NHNHB to contain a rare Atlantic White cedar -yellow birch-pepperbush plant community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification: High
Highest Ranked Habitat: State
☐ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: Exemplary plant community

Connectivity

☐ Corridor (through or adjacent)
☑ Wetland Connectivity
☐ Upland Connectivity

Habitat Degradation

% of Buffer with Encroachment:

☐ Invasive Specie (List):

☐ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☐ Structures obstructing wildlife movement?
☐ Dumping?
☐ ATV Activity?

Wildlife Observations

Recreational Value/Potential

☐ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☐ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Manage in cooperation with Greenland

Development Potential

Description: No- parcel is too wet

Describe Recreational Access:

Storm Water Data

Watershed ID (HUC12) Winnicut River

☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils: very poorly drained

BMP type?

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: Next to Portsmouth parcels 21, 22, and 23. Also abuts conservation land in Greenland.

PULA ID: 23

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 24 Acres: 7.60 Date Visited: 27-Jul-09

Tax Map/Lot #: 0283-0013-0000 Group ID: Scientist: Earle Chase

Address: Patricia Drive

Nearest Road: Adjacent to site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description:

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☑ Forest ☐ Shrubland ☐ Grassland ☑ Residential
☐ Pasture ☐ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial
☐ Cropland ☐ Tidal Wetland ☑ Abandoned/Disturbed ☑ Other: route 95

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: Cultivated:
Pasture: Wetland: 100 Open Water: Other:

Topography: Flat.

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☑ Shallow marsh ☐ Deep marsh
☐ Shrub swamp ☑ Bog ☑ Forested wetland ☐ Atlantic white cedar
☑ Prime wetland ☐ Vernal pool

Description of wetlands: Emergent with interspersed red maple, large component of snags, perimeter of scrub shrub; an extension of packers bog.

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:
Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☑ NH Natural Heritage Data?

☑ Rare Plant Community NHNHB identified black maple as well as green Ash (i.e. a less common hardwood)

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification: Low
Highest Ranked Habitat:
☑ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: scrub-shrub, shallow marsh, large snag component

Connectivity

☐ Corridor (through or adjacent)
☐ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

According to a local resident, white tailed deer cross from this parcel into #25. Turkey, fisher, canada geese, wood duck, and black ducks were also noted. American Robin (visual) and green frog (audio) song sparrow (audio) all noted.

Habitat Degradation

% of Buffer with Encroachment:

☑ Invasive Specie (List): Purple loosestrife and buckthorn

☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☑ Dumping?
☑ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☑ Hunting Permitted
☑ Walking/Biking Trails
☐ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Install stormwater measures (see stormwater data)

Development Potential

Description: No- a large % of existing parcel is wetland

Describe Recreational Access:

there is a small turnout off Patricia Drive

Storm Water Data

Watershed ID (HUC12) Winnicut River

☑ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

BMP type? No apparent stormwater management at nearby Patricia Drive/Martha Terrace

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☑ Hazardous Waste Possible a few old barrels observed

Comments: Educational potential is present - viewed an insect collecting research plot. A larger percentage of property is wetland. The quality of existing habitiat is affected by nearby urban development and proximity to Rte 95 and Ocean Road. A small black maple component was observed by the Heritage Bureau.

PULA ID: 24

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 25 Acres: 21.53 Date Visited: 27-Jul-09

Tax Map/Lot #: 0294-0009-0000 Group ID: C Scientist: Earle Chase

Address: Banfield Road

Nearest Road: Adjacent to site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Located between railroad and Banfield Road

Existing Structures on Site: ☑ Historical features Railroad; weeviled white pine indicates earlier pasture/hayland

Adjacent Land Uses (check all that apply):

☑ Forest	☐ Shrubland	☐ Grassland	☑ Residential
☐ Pasture	☐ Freshwater Wetland	☐ Open Water	☐ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☐ Other:

Habitat Types Present (percent cover):

Forest: 60 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 40 Open Water: Other:

Topography: flat

Streams:

☐ Ephemeral ☑ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow	☐ Shallow marsh	☐ Deep marsh	
☐ Shrub swamp	☐ Bog	☑ Forested wetland	☐ Atlantic white cedar
☐ Prime wetland	☑ Vernal pool		

Description of wetlands: Red maple swamp with American elm, interspersed swamp white oak

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock: 25

Oak/pine: White pine: 75 Other:

Description of forest: Early pasture/field, now white pine with mixture of hemlock

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 10 Mature: 90 Old growth:

Logging evidence: Type of cut: Previous agricultural use

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat
☐ Critical Features

Specific Habitat Features/ Type: Trees are same height with no/little understory; white pine-hemlock stand may provide some winter cover to resident deer.

Vertical Stratification: Low

Highest Ranked Habitat: State

☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

White-tailed deer tracks

Habitat Degradation

% of Buffer with Encroachment: 20

☑ Invasive Specie (List): Buckthorn (spp.)

☑ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☑ Dumping?
☑ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Remove trash; upgrade storm drain; divert road drainage from intermittent stream into storm drain

Development Potential

Description: Access into property may restrain development; large wetland at center of property makes potential house and road layout difficult

Describe Recreational Access:

Via Banfield Road or railroad tracks.

Storm Water Data

Watershed ID (HUC12) Winnicut River, Gr

☑ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☑ Underlying Aquifers and Transmissivity
☑ Sand & Gravel Deposits

Soils: Wet soils are VPD, upland soils are WD

BMP type? Storm drain present-this structure drains stormwater directly into the adjacent wetland system

Potential Property Liabilities:

☐ Homeless Activity
☑ Safety Hazard Access from road is difficult
☐ Hazardous Waste Possible

Comments:

PULA ID: 25

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 26 Acres: 0.54 Date Visited: 16-Jul-09

Tax Map/Lot #: 0293-0013-0000 Group ID: C Scientist: Earle Chase

Address: Ocean Road

Nearest Road: Adjacent to site Distance from Road (ft): ☑ Boundary ID present

Type of Road: 2-lane paved

Access Description:

Existing Structures on Site: ☑ Historical features

Adjacent Land Uses (check all that apply):

☐ Forest	☐ Shrubland	☐ Grassland	☑ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☐ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☐ Other:

Habitat Types Present (percent cover):

Forest: 90 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 10 Open Water: Other:

Topography:

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow	☐ Shallow marsh	☐ Deep marsh	
☐ Shrub swamp	☐ Bog	☑ Forested wetland	☐ Atlantic white cedar
☐ Prime wetland	☐ Vernal pool		

Description of wetlands: Red maple swamp

Dominant Upland Forest (percent):

Early successional: Northern hardwood: 100 Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 75 Mature: 25 Old growth:

Logging evidence: 20+ years ago Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat
☐ Critical Features

Specific Habitat Features/ Type: Apple, red maple, white ash, and red oak trees provide local wildlife species with seed and fruit sources

Vertical Stratification: Low

Highest Ranked Habitat:

☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Habitat Degradation

% of Buffer with Encroachment:

☑ Invasive Specie (List): Buckthorn (spp.)

☑ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☐ Structures obstructing wildlife movement?
☑ Dumping?
☐ ATV Activity?

Wildlife Observations

Songbirds singing on adjacent properties.

Recreational Value/Potential

☐ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☐ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Remove buckthorn (spp.)

Development Potential

Description: Property appears too small to develop

Describe Recreational Access:

There is no access unless one parks down the road at the railroad crossing

Storm Water Data

Watershed ID (HUC12) Winnicut River

☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land
☑ Underlying Aquifers and Transmissivity
☑ Sand & Gravel Deposits

Soils: Wet soils are VPD, upland soils are WD

BMP type?

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☑ Hazardous Waste Possible 5 gallon containers observed (rusted beyond recognition)

Comments:

PULA ID: 26

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 27 Acres: 19.88 Date Visited: 17-Jul-09

Tax Map/Lot #: 0293-0016-0000 Group ID: C Scientist: Earle Chase

Address: Situated between Ocean Road and back of PO facility on Heritage Road

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Nearest Road: Adjacent to site Distance from Road (ft): ☑ Boundary ID present

Type of Road: 2-lane paved

Access Description: Between Ocean Road and Heritage Road

Existing Structures on Site: ☑ Historical features Old barbed wire, railroad

Adjacent Land Uses (check all that apply):

☐ Forest ☐ Shrubland ☐ Grassland ☑ Residential
☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial
☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: 50 Shrub/Old Field: Grass/Forb: Cultivated:
Pasture: Wetland: 50 Open Water: Other:

Topography: Flat

Streams:

☐ Ephemeral ☑ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☑ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☑ Shallow marsh ☐ Deep marsh
☑ Shrub swamp ☐ Bog ☑ Forested wetland ☐ Atlantic white cedar
☐ Prime wetland ☑ Vernal pool

Description of wetlands: Potential vernal pond

Dominant Upland Forest (percent):

Early successional: Northern hardwood: 20 Red maple: Hemlock: 20
Oak/pine: White pine: 60 Other:

Description of forest: This is a mixed stand with many larger diametered trees (see forestry potential notes below)

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 10 Mature: 90 Old growth:

Logging evidence: 20+ years ago Type of cut: Previous agricultural use

☐ NH Natural Heritage Data?
☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☐ Critical Features

Specific Habitat Features/ Type: Fallen trees, cavity trees, potential vernal pool

Vertical Stratification: Low

Highest Ranked Habitat: Biological Region

☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Midden piles - red squirrel most likely.
Turkey (feather in stream)

Habitat Degradation

% of Buffer with Encroachment:

☑ Invasive Specie (List):

☑ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☐ Structures obstructing wildlife movement?
☑ Dumping?
☑ ATV Activity?

Recreational Value/Potential

☐ Parking Available
☐ Watercraft Access
☐ Fishing Available
☑ Hunting Permitted
☑ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description: Acquire wooded area behind PO facility

Recommendations to improve access or overall potential: Develop access at back of PO facility

Development Potential

Description: Limited due to adjacent wetlands and minimal uplands

Describe Recreational Access:

Access can be gained through Parcel #28 or parking behind PO facility

Storm Water Data

Watershed ID (HUC12) Winnicut River, Gr

☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☑ Underlying Aquifers and Transmissivity
☑ Sand & Gravel Deposits

Soils: very poorly drained

BMP type? Nearby parking at PO facility with little or no storm water management.

Potential Property Liabilities:

☑ Homeless Activity Piles of beer cans
☑ Safety Hazard Barbed wire fence
☐ Hazardous Waste Possible

Comments: Forestry Potential: timber management is an option. If management of #27, 28, & 29 were combined, there is enough volume to warrant a timber cutting. Stocking levels are moderate to high and tree diameters are large. This property abuts PULA parcels #25, 26, 28, & 29. Hemlock and white pine provide abundant seed sources and large mast trees (red & white oak) were noted.

PULA ID: 27

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 28 Acres: 2.53 Date Visited: 17-Jul-09

Tax Map/Lot #: 0284-0003-0000 Group ID: C Scientist: Earle Chase

Address: Heritage Road

Nearest Road: Adjacent to site Distance from Road (ft): ☑ Boundary ID present

Type of Road: 2-lane paved

Access Description:

Existing Structures on Site: ☑ Historical features Enclosed fence structure at road

Adjacent Land Uses (check all that apply):

☐ Forest	☐ Shrubland	☐ Grassland	☑ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☑ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☐ Other:

Habitat Types Present (percent cover):

Forest: 90 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 10 Open Water: Other:

Topography: Flat

Streams:

☐ Ephemeral ☑ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

	☐ Wet Meadow	☐ Shallow marsh	☐ Deep marsh
☑ Shrub swamp	☐ Bog	☑ Forested wetland	☐ Atlantic white cedar
☐ Prime wetland	☐ Vernal pool		

Description of wetlands: Forested wetland with green ash component

Dominant Upland Forest (percent):

Early successional: Northern hardwood: 20 Red maple: Hemlock: 40

Oak/pine: White pine: 40 Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 5 Mature: 95 Old growth:

Logging evidence: 20+ years ago Type of cut: Previous agricultural use

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat
☑ Critical Features
Vertical Stratification: Low
Highest Ranked Habitat:
☐ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: Dead standing trees, fallen trees, stonewalls

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Eastern chipmunk (feeding/audio), weasel, white-tailed deer (tracks), black capped chicadee (audio)

Habitat Degradation

% of Buffer with Encroachment:
☑ Invasive Specie (List): Japanese barberry
☐ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☑ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☑ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☐ Existing Conservation Land

Describe Recreational Access:

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Potential to improve existing trail/pathway to provide a linkage with adjacent properties.

Development Potential

Description: No - width of property does not allow development

Storm Water Data

Watershed ID (HUC12) Great Bay
☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

BMP type?

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land
☑ Underlying Aquifers and Transmissivity
☑ Sand & Gravel Deposits

Soils:

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: Width of property restrains many management possibilities.

PULA ID: 28

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 29 Acres: 8.98 Date Visited: 17-Jul-09

Tax Map/Lot #: 0284-0004-0000 Group ID: C Scientist: Earle Chase

Address: landlocked; access via Heritage Road

Nearest Road: Adjacent to site Distance from Road (ft): ☑ Boundary ID present

Type of Road:

Access Description: Parcel is landlocked; access by Heritage Road or via parcels #28, 30, or 31

Existing Structures on Site: ☑ Historical features stonewalls, barbed wire fence, prior agricultural usage

Adjacent Land Uses (check all that apply):

☑ Forest	☐ Shrubland	☐ Grassland	☑ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☐ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☑ Other: Playground

Habitat Types Present (percent cover):

Forest:	40	Shrub/Old Field:		Grass/Forb:		Cultivated:	
Pasture:		Wetland:	40	Open Water:		Other:	20 ballfield park

Topography: Flat

Streams:

☐ Ephemeral ☑ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☑ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow	☑ Shallow marsh	☐ Deep marsh	
☑ Shrub swamp	☐ Bog	☑ Forested wetland	☐ Atlantic white cedar
☑ Prime wetland	☐ Vernal pool		

Description of wetlands: This wetland is situated north-centrally, it is emergent in character

Dominant Upland Forest (percent):

Early successional:		Northern hardwood:	20	Red maple:		Hemlock:	35
Oak/pine:		White pine:	45	Other:			

Description of forest:

Forest Age Class (percent):

Regeneration-seedling:		Sapling-pole:	10	Mature:	90	Old growth:	

Logging evidence: 20+ years ago Type of cut: Previous agricultural use

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification: Low
Highest Ranked Habitat:
☑ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: Scrub-shrub wetland present. Snag component in wetland.

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Swamp swallow (visual), green frog (audio), rusty blackbird, hairy woodpecker, beaver browse, American robin

Habitat Degradation

% of Buffer with Encroachment: 10

☑ Invasive Specie (List): Buckthorn (spp.); multiflora rose

☑ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☐ Structures obstructing wildlife movement?
☑ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☑ Potential Ballfield
☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Clear pathways; provide access from adjacent development

Development Potential

Description: Recreation assets outweigh any development potential on east.

Describe Recreational Access:

Via parcel #28 off Heritage Road or #30 from park/playground

Storm Water Data

Watershed ID (HUC12) Great Bay

☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

BMP type?

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☑ Underlying Aquifers and Transmissivity
☑ Sand & Gravel Deposits

Soils:

Potential Property Liabilities:

☐ Homeless Activity
☑ Safety Hazard barbed wire fence
☐ Hazardous Waste Possible

Comments: Develop connecting linkage of pathway from park/playground to Parcel #26's interior and to Parcel #27. Will need wetland permit to cross wetland on Parcel #30. Develop wildlife viewing area within interior to observe wetland area.

PULA ID: 29

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 30 Acres: 0.61 Date Visited: 17-Jul-09

Tax Map/Lot #: 0292-0095-0000 Group ID: C Scientist: Earle Chase

Address: Maple Haven Park

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description:

Existing Structures on Site: ☐ Historical features Pcinic Tables, playground equipment

Adjacent Land Uses (check all that apply):

☑ Forest ☐ Shrubland ☐ Grassland ☑ Residential

☐ Pasture ☐ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☑ Other: playground, ballfield

Habitat Types Present (percent cover):

Forest: 10 Shrub/Old Field: Grass/Forb: 90 Cultivated:

Pasture: Wetland: Open Water: Other:

Topography: Flat

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands: ☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☐ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands:

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: 20 Hemlock:

Oak/pine: 80 White pine: Other:

Description of forest: This is a park setting that is chiefly open with several large diametered interspersed trees.

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: 100 Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat
☐ Critical Features
Specific Habitat Features/ Type:

Vertical Stratification: Low
Highest Ranked Habitat:
☑ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)
☐ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

American robin, red squirrel

Habitat Degradation

% of Buffer with Encroachment: 75

☐ Invasive Specie (List):

☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☑ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Research developing trail from Parcel #30 to #29. This linkage would access Parcels #27, 28, & 25

Development Potential

Description:

Describe Recreational Access:

Northwest end of Simonds Street (off Ocean or Lafayette)

Storm Water Data

Watershed ID (HUC12) Great Bay

☑ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☑ Underlying Aquifers and Transmissivity
☑ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: Currently, Parcels #30, 31, & 29 are being actively used as a park with associated amenities. It appears that Portsmouth Public Works Dept. is caring for the parcels well.

PULA ID: 30

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 31 Acres: 0.22 Date Visited: 17-Jul-09

Tax Map/Lot #: 0292-0016-0000 Group ID: C Scientist:

Address: Maple Haven Park

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description:

Existing Structures on Site: ☐ Historical features Picnic tables, playground equipment

Adjacent Land Uses (check all that apply):

☑ Forest	☐ Shrubland	☐ Grassland	☑ Residential
☐ Pasture	☐ Freshwater Wetland	☐ Open Water	☐ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☑ Other: Playground

Habitat Types Present (percent cover):

Forest: 10 Shrub/Old Field: Grass/Forb: 90 Cultivated:

Pasture: Wetland: Open Water: Other:

Topography:

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☐ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands:

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: 20 Hemlock:

Oak/pine: 80 White pine: Other:

Description of forest: This is a park setting with interspersed large diametered trees.

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: 100 Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: Low

Highest Ranked Habitat:

☑ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)

☐ Wetland Connectivity

☑ Upland Connectivity

Wildlife Observations

Red squirrel, American robin

Habitat Degradation

% of Buffer with Encroachment: 75

☑ Invasive Specie (List): Buckthorn, multiflora rose

☑ Activities adversely affecting wildlife function?

☑ Significant Disturbance?

☑ Structures obstructing wildlife movement?

☐ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☐ Walking/Biking Trails

☑ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Manage eastern end of #29, 30 & 31 together as a park facility.

Development Potential

Description:

Describe Recreational Access:

Northwest end of Simonds/Suzanne Streets (off Ocean or Lafayette)

Storm Water Data

Watershed ID (HUC12) Great Bay

☑ Upstream sources of pollution

☑ Erosion/sedimentation observed

☑ Stabilization needed

☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land

☑ Underlying Aquifers and Transmissivity

☑ Sand & Gravel Deposits

Soils:

BMP type? Diversion swale needed. Road run-off is occurring and being directed into park. This stormwater should be directed into nearby treed area.

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: Currently, Parcels #30, 31, & 29 are being actively used as a park with associated amenities. It appears that Portsmouth Public Works Dept. is caring for the parcels well.

PULA ID: 31

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 32 Acres: 1.36 Date Visited: 07-Aug-09

Tax Map/Lot #: 0286-022A-0000 Group ID: Scientist: Earle Chase

Address: Lang Road

Nearest Road: On-site Distance from Road (ft): ☑ Boundary ID present

Type of Road: 2-lane paved

Access Description: Lang Road behind Phillips 66 gas station, Stonecroft housing just to the east

Existing Structures on Site: ☑ Historical features Stonewall, abandoned road, 2 vehicles

Adjacent Land Uses (check all that apply):

☐ Forest ☐ Shrubland ☐ Grassland ☑ Residential

☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: 5 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 90 Open Water: Other: 5 Paved driveway

Topography: Flat

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands: ☐ Wet Meadow ☑ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☑ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands: Largely emergent (mostly) broad-leaved cattails with red maple overstory

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: Moderate

Highest Ranked Habitat:

☐ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)

☐ Wetland Connectivity

☐ Upland Connectivity

Wildlife Observations

song bird (unidentified)

Habitat Degradation

% of Buffer with Encroachment: 75

☑ Invasive Specie (List): Common reed, purple loosestrife, multiflora rose

☑ Activities adversely affecting wildlife function?

☑ Significant Disturbance?

☑ Structures obstructing wildlife movement?

☑ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☐ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☐ Walking/Biking Trails

☐ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description: There is a paved access road from abutting parel to the north, but site is mostly wetland.

Describe Recreational Access:

Parcel is situated on north side of Lang Road between Phillips 66 and Stonecroft Housing

Storm Water Data

Watershed ID (HUC12) Berry's Brook-Rye

☑ Upstream sources of pollution

☐ Erosion/sedimentation observed

☐ Stabilization needed

☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land

☑ Underlying Aquifers and Transmissivity

☑ Sand & Gravel Deposits

Soils:

BMP type? Culvert passes underneath Lang Road flowing into wetland. Flowage appeared poor in quality; adjacent property across street is open and unvegetated.

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: Proximity to Lang Road and commercial activity lowers overall value. Photos: (2) at respective wetland, of invasive species, culvert outlet, white-tailed deer crossing, sign, proximity to Lang Road.

PULA ID: 32

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 33 Acres: 32.54 Date Visited: 03-Aug-09

Tax Map/Lot #: 0287-0003-0000 Group ID: D Scientist: Earle Chase

Address: landlocked

Nearest Road: Distance from Road (ft): ☑ Boundary ID present

Type of Road:

Access Description: Lang Road into Beechstone, continue to northeast corner of parking area

Existing Structures on Site: ☑ Historical features Stonewalls

Adjacent Land Uses (check all that apply):

☑ Forest	☐ Shrubland	☐ Grassland	☑ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☐ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☐ Other:

Habitat Types Present (percent cover):

Forest: 35 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 65 Open Water: Other:

Topography: Flat, situated on coastal plain

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow	☑ Shallow marsh	☐ Deep marsh	
☐ Shrub swamp	☐ Bog	☑ Forested wetland	☐ Atlantic white cedar
☑ Prime wetland	☐ Vernal pool		

Description of wetlands: This wetland system includes a forested component and an emergent component. These wetlands are eligible and proposed for prime designation.

Dominant Upland Forest (percent):

Early successional: Northern hardwood: 10 Red maple: 15 Hemlock:

Oak/pine: White pine: 75 Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 25 Mature: 75 Old growth:

Logging evidence: 20+ years ago Type of cut: Previous agricultural use

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat
☐ Critical Features

Specific Habitat Features/ Type: Fallen trees, stonewalls provide good wildlife structure, some large mast trees, white pine & red oak provide excellent seed source

Vertical Stratification: Low

Highest Ranked Habitat: State

☐ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Red squirrel/eastern chipmunk (feeding activity); excellent white pine seed source; existing tree stand suggestions, white deer activity.

Habitat Degradation

% of Buffer with Encroachment: 10

☑ Invasive Specie (List): buckthorn, barberry

☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☐ Structures obstructing wildlife movement?
☐ Dumping?
☑ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☑ Hunting Permitted
☑ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Develop pathway(s); post signage

Development Potential

Description:

Describe Recreational Access:

Via Beechwood, continue to Northeast corner of complex. There is parking for residents, stonewall separating lawn area from WP forest is northwestern boundary.

Storm Water Data

Watershed ID (HUC12) Berry's Brook-Rye

☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

BMP type?

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☑ Underlying Aquifers and Transmissivity
☑ Sand & Gravel Deposits

Soils:

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: Develop recreational potential; manage for timber and wildlife. Forest management potential: large volume of sawlog sized trees; selective cut--create small wildlife openings by removing weeviled and low grade pine; existing red oak component; ability to generate monies for care. Ballfield potential restrained by square footage of wetlands (adj. #34), a city-owned property. Possible existing camping or fire activity.

PULA ID: 33

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 34 Acres: 20.60 Date Visited: 04-Aug-09

Tax Map/Lot #: 0271-0001-0008 Group ID: D Scientist: Earle Chase

Address: landlocked

Nearest Road: Distance from Road (ft): ☐ Boundary ID present

Type of Road:

Access Description: Property is landlocked. Lang Road to Beechwood. Continue to parking area in NE corner. Cross #34 to reach #35.

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☑ Forest	☐ Shrubland	☐ Grassland	☐ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☐ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☐ Other:

Habitat Types Present (percent cover):

Forest: 15 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 85 Open Water: Other:

Topography: Flat, part of coastal plain

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

	☐ Wet Meadow	☑ Shallow marsh	☑ Deep marsh
☑ Shrub swamp	☐ Bog	☐ Forested wetland	☐ Atlantic white cedar
☑ Prime wetland	☐ Vernal pool		

Description of wetlands: This wetland is chiefly emergent with a perimeter of wetland shrubs. The dominant plant is broad-leaved cattails. This wetland is proposed for prime wetland designation.

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: 10 Hemlock:

Oak/pine: White pine: 90 Other:

Description of forest: There are components of white pine in northwest and northeast corners.

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 10 Mature: 90 Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☐ Critical Features

Specific Habitat Features/ Type: Shallow/deep marsh; scrub-shrub wetland

Vertical Stratification: Low

Highest Ranked Habitat: Biological Region

☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Habitat Degradation

% of Buffer with Encroachment:

☑ Invasive Specie (List): Buckthorn

☐ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☐ Structures obstructing wildlife movement?
☐ Dumping?
☑ ATV Activity?

Recreational Value/Potential

☐ Parking Available
☐ Watercraft Access
☐ Fishing Available
☑ Hunting Permitted
☐ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Describe Recreational Access:

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Combine management of #34 with #35. Establish wildlife viewing stations at edge of wetland.

Development Potential

Description: No -- the large percentage of parcel is wetland. Also there is no access.

Storm Water Data

Watershed ID (HUC12) Berry's Brook-Rye

☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

BMP type?

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

Potential Property Liabilities:

☑ Homeless Activity Possibly; abandoned sleeping bag found
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments:

PULA ID: 34

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 35 Acres: 38.98 Date Visited: 03-Aug-09

Tax Map/Lot #: 0288-0001-0000 Group ID: D Scientist: Earle Chase

Address: Lang Road

Nearest Road: On-site Distance from Road (ft): ☑ Boundary ID present

Type of Road: 2-lane paved

Access Description:

Existing Structures on Site: ☑ Historical features Stonewalls; previous agricultural usage

Adjacent Land Uses (check all that apply):

☑ Forest	☐ Shrubland	☐ Grassland	☑ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☐ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☐ Other:

Habitat Types Present (percent cover):

Forest:	45	Shrub/Old Field:		Grass/Forb:	10	Cultivated:	
Pasture:		Wetland:	45	Open Water:		Other:	

Topography: Flat, part of coastal plain

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow	☑ Shallow marsh	☐ Deep marsh	
☐ Shrub swamp	☐ Bog	☑ Forested wetland	☐ Atlantic white cedar
☑ Prime wetland	☑ Vernal pool		

Description of wetlands: The majority of wetland at the parcel is forested. Emergent wetland, part of a larger system, is situated in NW corner.

Dominant Upland Forest (percent):

Early successional:		Northern hardwood:		Red maple:	10	Hemlock:	
Oak/pine:		White pine:	90	Other:			

Description of forest:

Forest Age Class (percent):

Regeneration-seedling:		Sapling-pole:	10	Mature:	90	Old growth:	

Logging evidence: 20+ years ago Type of cut: Previous agricultural use

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat
☐ Critical Features

Specific Habitat Features/ Type: potential vernal pool, scrub-shrub wetland, fallen trees

Vertical Stratification: Low

Highest Ranked Habitat: Biological Region

☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Eastern chipmunk/red squirrel feeding activity. Wildlife activity may be restrained by developmjent on east and busy Lang Road.

Habitat Degradation

% of Buffer with Encroachment: 40

☑ Invasive Specie (List): Buckthorn and barberry

☑ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☐ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☑ Hunting Permitted
☑ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Describe Recreational Access:

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Develop small parking area in field; install signage.

Development Potential

Description:

Storm Water Data

Watershed ID (HUC12) Berry's Brook-Rye

☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

BMP type?

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☑ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments:

PULA ID: 35

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 36 Acres: 29.87 Date Visited: 01-Dec-09

Tax Map/Lot #: 0250-0106-0000 Group ID: Scientist: Mark West

Address: Van Buren Avenue

Nearest Road: Adjacent to site Distance from Road (ft): 100 ☑ Boundary ID present

Type of Road: 2-lane paved

Access Description: Parking available on 3 sides of school building.

Existing Structures on Site: ☐ Historical features Yes.

Adjacent Land Uses (check all that apply):

☑ Forest	☐ Shrubland	☐ Grassland	☑ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☐ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☐ Other:

Habitat Types Present (percent cover):

Forest: 10 Shrub/Old Field: 5 Grass/Forb: 25 Cultivated:

Pasture: Wetland: 40 Open Water: Other: 20 School

Topography: Flat

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow	☐ Shallow marsh	☐ Deep marsh	
☐ Shrub swamp	☐ Bog	☑ Forested wetland	☐ Atlantic white cedar
☐ Prime wetland	☐ Vernal pool		

Description of wetlands: Mature forested wetland with both deciduous and coniferous tree species and a thick shrub layer in places.

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: 100 White pine: Other:

Description of forest: Small upland forest south of school buildings with ropes course.

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: 50 Old growth: 50

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community Not rare plant community, but large specimen black gums present.

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: High

Highest Ranked Habitat:

☐ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)

☑ Wetland Connectivity

☑ Upland Connectivity

Wildlife Observations

Deer tracks and scat; chipmunks; mockingbird; blue jay; gray squirrel

Habitat Degradation

% of Buffer with Encroachment:

☑ Invasive Specie (List): Multiflora rose

☐ Activities adversely affecting wildlife function?

☐ Significant Disturbance?

☐ Structures obstructing wildlife movement?

☐ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☑ Walking/Biking Trails

☑ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Multiflora rose blocks trail over sewerline in western part of site.

Development Potential

Description: Low, mostly wetland.

Describe Recreational Access:

Large parking lot at school. Adjacent to Elwyn Park.

Storm Water Data

Watershed ID (HUC12) Berry's Brook-Rye

☑ Upstream sources of pollution

☑ Erosion/sedimentation observed

☑ Stabilization needed

☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land

☑ Underlying Aquifers and Transmissivity

☑ Sand & Gravel Deposits

Soils:

BMP type? Treatment swale or porous pavement. Parking lot drains south into wetland without treatment.

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: Beautiful mature forested wetland with specimen black gum southwest of school. Sewer line could provide trail to west linking to Taft Road.

PULA ID: 36

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 37 Acres: 7.66 Date Visited: 07-Aug-09

Tax Map/Lot #: 0284-0009-0000 Group ID: E Scientist: Earle Chase

Address: Heritage Road

Nearest Road: On-site Distance from Road (ft): ☑ Boundary ID present

Type of Road: 2-lane paved

Access Description: Parcel is situated east of commercial building. Business/personnel parking available here.

Existing Structures on Site: ☑ Historical features Stonewalls, barbed wire

Adjacent Land Uses (check all that apply):

☑ Forest	☐ Shrubland	☐ Grassland	☐ Residential
☐ Pasture	☐ Freshwater Wetland	☐ Open Water	☑ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☐ Other:

Habitat Types Present (percent cover):

Forest:	15	Shrub/Old Field:		Grass/Forb:		Cultivated:	
Pasture:		Wetland:	85	Open Water:		Other:	

Topography: Generally flat, some mild slopes in the south

Streams:

☐ Ephemeral ☑ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☑ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands: Red maple swamp with shrub and herb understory

Dominant Upland Forest (percent):

Early successional:		Northern hardwood:	25	Red maple:		Hemlock:	
Oak/pine:		White pine:	75	Other:			

Description of forest: White pine with mixed hardwood. This forest type occupies a very smalle area between the existing wetland and parking lot. Much of WP on parcel earlier infested with white pine weevil.

Forest Age Class (percent):

Regeneration-seedling:		Sapling-pole:	25	Mature:	75	Old growth:	

Logging evidence: 20+ years ago Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification: High
Highest Ranked Habitat:
☐ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: Scrub-shrub wetland thick vegetative cover

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

It was noted on Parcel #28 that white-tailed deer are moving towrds Parcel #37. Deer scat was also observed on Parcel #38.

Habitat Degradation

% of Buffer with Encroachment: 65

☑ Invasive Specie (List): Buckthorn

☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☐ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Describe Recreational Access:

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Explore developing trail from Heritage Road to Constitution Road.

Development Potential

Description: No. Parcel is largely wetland.

Storm Water Data

Watershed ID (HUC12) Great Bay

☑ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☑ Underlying Aquifers and Transmissivity
☑ Sand & Gravel Deposits

Soils:

BMP type? Adjacent parking lots. No observed stormwater measures to filter/assimilate surface water coming from parking areas.

Potential Property Liabilities:

☑ Homeless Activity Observed an abandoned tent.
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments:

PULA ID: 37

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 38 Acres: 29.87 Date Visited: 12-Aug-09

Tax Map/Lot #: 0274-0003-0000 Group ID: E Scientist: Earle Chase

Address: Constitution Ave.

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Parcel is located adjacent to Constitution Ave. Proceed to grassed area.

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☐ Forest	☐ Shrubland	☐ Grassland	☑ Residential
☐ Pasture	☐ Freshwater Wetland	☐ Open Water	☑ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☐ Other:

Habitat Types Present (percent cover):

Forest:	40	Shrub/Old Field:		Grass/Forb:	2	Cultivated:	
Pasture:		Wetland:	58	Open Water:		Other:	

Topography: Relatively flat, some rolling ground.

Streams:

☐ Ephemeral ☑ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow	☐ Shallow marsh	☐ Deep marsh	
☑ Shrub swamp	☐ Bog	☑ Forested wetland	☐ Atlantic white cedar
☐ Prime wetland	☐ Vernal pool		

Description of wetlands: There are two main components of wetlands, one consists of Red Maple with scrub-shrub understory and the other is chiefly Eastern Hemlock.

Dominant Upland Forest (percent):

Early successional:		Northern hardwood:		Red maple:		Hemlock:	50
Oak/pine:		White pine:	50	Other:			

Description of forest:

Forest Age Class (percent):

Regeneration-seedling:		Sapling-pole:	25	Mature:	75	Old growth:	

Logging evidence: 20+ years ago Type of cut:

☑ NH Natural Heritage Data?

☑ Rare Plant Community Classified as a Red Maple-Sensitive Fern plant community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification: High
Highest Ranked Habitat:
☐ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: Scrub-shrub wetland, thick vegetative cover

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Potential wildlife corridor from south and west. White-tailed deer scat observed. Keeping Parcels #37 & 38 intact may provide wildlife access into large open space parcels to the northeast. Surrounding comm. dev. restrains overall

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☑ Hunting Permitted
☑ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Describe Recreational Access:
Constitution Ave. to small grassed area.

Habitat Degradation

% of Buffer with Encroachment: 90

☑ Invasive Specie (List): Buckthorn, oriental bittersweet

☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☑ Dumping? Dumping of leaf piles, public works road curbing
☐ ATV Activity?

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Develop trail from grassed area to Parcel #28.

Development Potential

Description: The upland area at intersection of Banfield and Constitution may accommodate potential development

Storm Water Data

Watershed ID (HUC12) Great Bay

☑ Upstream sources of pollution
☑ Erosion/sedimentation observed
☑ Stabilization needed
☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

BMP type? Evidence of soil migration into wetlands along eastern boundary (possibly during construction phase at adj. comm. prop.) Few visible stormwater measures; some comm. parcels directing stormwater into this

Potential Property Liabilities:

☑ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: This property was being actively used for camping -- four individual campsites were observed. It is not clear if this is local teenagers or homeless activity.

PULA ID: 38

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 39 Acres: 7.24 Date Visited: 12-Aug-09

Tax Map/Lot #: 0265-002D-0000 Group ID: Scientist: Earle Chase

Address: Banfield Road

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description:

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☐ Forest ☐ Shrubland ☐ Grassland ☐ Residential

☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: 10 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 90 Open Water: Other:

Topography: Flat; elevation drop from Banfield Road to wetland.

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands: ☐ Wet Meadow ☑ Shallow marsh ☑ Deep marsh

☐ Shrub swamp ☐ Bog ☑ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands: This is chiefly an emergent weltand with an overtopping red maple overstory. Phragmites was observed adjacent Banfield Road.

Dominant Upland Forest (percent):

Early successional: Northern hardwood: 15 Red maple: 85 Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 75 Mature: 25 Old growth:

Logging evidence: 20+ years ago Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification: Moderate
Highest Ranked Habitat: State
☐ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: Shallow/deep marsh; thick vegetative cover

Connectivity

☐ Corridor (through or adjacent)
☑ Wetland Connectivity
☐ Upland Connectivity

Wildlife Observations

Presence of phragmites and monoculture of cattails restrains plant & wildlife diversity. Parcel #39 is directly under a flight path to the airport. The extreme noise also decreases wildlife usage.

Habitat Degradation

% of Buffer with Encroachment: 10

☑ Invasive Specie (List): Common reed

☑ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☑ Structures obstructing wildlife movement?

☑ Dumping?
☐ ATV Activity?

Trash along Bandfield Road

Recreational Value/Potential

☐ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description: Explore improving stormwater measures

Recommendations to improve access or overall potential: Probably no options due to current width of Banfield Road.

Development Potential

Description: No -- property is almost entirely wet.

Describe Recreational Access:

Park in parking lot at Sheds USA. Walk to end of Constitution Ave. Continue northeast on Banfield Road for a short distance. Cross road into Parcel #39.

Storm Water Data

Watershed ID (HUC12) Great Bay

☑ Upstream sources of pollution
☑ Erosion/sedimentation observed
☑ Stabilization needed
☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

BMP type? Existing storm drains on Constitution Ave outlet via culvert across Banfield directly into wetlands. This section of wetland is hydrologically connected to subject parcel #39. Parking lot at Sheds USA drains into

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: Wetland #39 is hydrologically connected to large adjacent wetland.

PULA ID: 39

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 40 Acres: 189.80 Date Visited: 01-Aug-09

Tax Map/Lot #: 0282-0005-0000 Group ID: F Scientist: Mark West

Address: Ocean Road/Buckminster

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Trailhead off Buckminster; adjacent to Parcel #41.

Existing Structures on Site: ☑ Historical features 4 stone foundations; Hamond Homestead

Adjacent Land Uses (check all that apply):

☑ Forest ☑ Shrubland ☐ Grassland ☑ Residential
☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial
☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☑ Other: Highway

Habitat Types Present (percent cover):

Forest: 20 Shrub/Old Field: 25 Grass/Forb: 5 Cultivated:
Pasture: Wetland: 50 Open Water: Other:

Topography: Rolling hill in center of site.

Streams:

☐ Ephemeral ☐ Intermittent ☑ Perennial ☐ River ☑ Presence of fish

Water bodies:

☐ Small pond ☑ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☑ Wet Meadow ☑ Shallow marsh ☑ Deep marsh
☑ Shrub swamp ☐ Bog ☑ Forested wetland ☑ Atlantic white cedar
☑ Prime wetland ☐ Vernal pool

Description of wetlands: Largest (diverse) wetland complex in Portsmouth.

Dominant Upland Forest (percent):

Early successional: 50 Northern hardwood: 15 Red maple: Hemlock: 10
Oak/pine: 10 White pine: 15 Other:

Description of forest: Areas of mature forest surrounded by wetland or shrub land.

Forest Age Class (percent):

Regeneration-seedling: 30 Sapling-pole: 30 Mature: 30 Old growth: 10

Logging evidence: Recent Type of cut: Previous agricultural use

☑ NH Natural Heritage Data?

☑ Rare Plant Community Hairy-fruited sedge; tufted loosestrife; Atlantic white cedar swamp

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

- [x] Critical Habitat
- [x] Critical Features

Specific Habitat Features/ Type: Deep marsh habitat for Blandings and spotted turtle. Scrub-shrub/woodland habitat for New England cottontail.

Vertical Stratification: High

Highest Ranked Habitat: State

- [x] Proximity to Beaver/Mink/Otter

Connectivity

- [x] Corridor (through or adjacent)
- [x] Wetland Connectivity
- [x] Upland Connectivity

Wildlife Observations

Song sparrow; chipmunk; house wren; red tail hawk; coyote scat; wood duck; deer tracks; beaver; raccoon tracks

Habitat Degradation

% of Buffer with Encroachment: 0

- [x] Invasive Specie (List): phragmites, purple loosestrife, glossy buckthorn, honeysuckle, crown vetch, olive, multiflora rose,
- [ ] Activities adversely affecting wildlife function?
- [ ] Significant Disturbance?
- [ ] Structures obstructing wildlife movement?
- [ ] Dumping?
- [x] ATV Activity?

Recreational Value/Potential

- [x] Parking Available
- [ ] Watercraft Access
- [ ] Fishing Available
- [x] Hunting Permitted
- [x] Walking/Biking Trails
- [x] Passive Recreation
- [ ] Tidal Access
- [ ] Potential Ballfield
- [x] Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Some boardwalk opportunities along maintrail at 1st wetland crossing.

Development Potential

Description:

Describe Recreational Access:

Access at trailhead off of

Storm Water Data

Watershed ID (HUC12) Great Bay, Winnic

- [x] Upstream sources of pollution
- [ ] Erosion/sedimentation observed
- [ ] Stabilization needed
- [ ] BMP or BMP modification needed

Additional Natural Resource Data Layers

- [x] Adjacent Conservation Land
- [x] Underlying Aquifers and Transmissivity
- [x] Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

- [x] Homeless Activity — In eastern portion of site adjacent to railroad bed
- [ ] Safety Hazard
- [ ] Hazardous Waste Possible

Comments: Larges PULA parcel and largest PULA group. Conservation easement held by SELTNH.

PULA ID: 40

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 41 Acres: 1.00 Date Visited: 01-Aug-09

Tax Map/Lot #: 0282-0006-0014 Group ID: F Scientist: Mark West

Address: Ocean & Buckminster Road

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Trail head.

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☑ Forest ☐ Shrubland ☑ Grassland ☑ Residential

☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: 60 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 40 Open Water: Other:

Topography: Slopes west towards wetland

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☑ Forested wetland ☐ Atlantic white cedar

☑ Prime wetland ☐ Vernal pool

Description of wetlands: Red maple swamp

Dominant Upland Forest (percent):

Early successional: 10 Northern hardwood: 90 Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest: Woodland abuts wetlands/upland on PULA parcel 40

Forest Age Class (percent):

Regeneration-seedling: 10 Sapling-pole: 40 Mature: 50 Old growth:

Logging evidence: 20+ years ago Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat
☐ Critical Features
Specific Habitat Features/ Type:

Vertical Stratification: Moderate
Highest Ranked Habitat:
☑ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Yellow throat

Habitat Degradation

% of Buffer with Encroachment: 50
☑ Invasive Specie (List): Japanese knotweed, purple loosestrife, crown vetch
☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☐ Structures obstructing wildlife movement?
☑ Dumping? Dumping of lawn clippings
☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☑ Hunting Permitted
☑ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Invasive species control

Development Potential

Description:

Describe Recreational Access:

Right next to trail

Storm Water Data

Watershed ID (HUC12) Great Bay
☑ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☑ Underlying Aquifers and Transmissivity
☑ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: Small parcel at entrance to Great Bog. Invasive species management needed.

PULA ID: 41

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 42 Acres: 1.83 Date Visited: 01-Aug-09

Tax Map/Lot #: 0281-0001-0000 Group ID: F Scientist: Mark West

Address: Ocean Road

Nearest Road: Adjacent to site Distance from Road (ft): 50 ☐ Boundary ID present

Type of Road: Interstate

Access Description: No access from Interstate 95 or Ocean Road. Signage indicates No Trespassing.

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☐ Forest	☑ Shrubland	☐ Grassland	☐ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☑ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☑ Other: Interstate

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: 30 Grass/Forb: Cultivated:

Pasture: Wetland: 70 Open Water: Other:

Topography: Slopes northeast into Great Bog.

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

	☐ Wet Meadow	☑ Shallow marsh	☐ Deep marsh
☑ Shrub swamp	☐ Bog	☐ Forested wetland	☐ Atlantic white cedar
☑ Prime wetland	☐ Vernal pool		

Description of wetlands: Western corner of Great Bog adjacent to Interstate 95.

Dominant Upland Forest (percent):

Early successional: 100 Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: 50 Sapling-pole: 50 Mature: Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: Moderate

Highest Ranked Habitat: State

☑ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)

☑ Wetland Connectivity

☐ Upland Connectivity

Wildlife Observations

Turkey vulture; grackle

Habitat Degradation

% of Buffer with Encroachment: 50

☑ Invasive Specie (List): Phragmites, purple loosestrife

☑ Activities adversely affecting wildlife function?

☑ Significant Disturbance?

☑ Structures obstructing wildlife movement?

☐ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☐ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☐ Walking/Biking Trails

☐ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☑ Existing Conservation Land

Restoration/Property Potential

Description: No-Proximity to highway limits opportunity for restoration.

Recommendations to improve access or overall potential:

Development Potential

Description: Power grid?

Describe Recreational Access:

Limited by signage off of Ocean Road for power grid substation.

Storm Water Data

Watershed ID (HUC12) Great Bay

☑ Upstream sources of pollution

☐ Erosion/sedimentation observed

☐ Stabilization needed

☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land

☑ Underlying Aquifers and Transmissivity

☑ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity

☑ Safety Hazard Adjacent to fenced-off power substation

☐ Hazardous Waste Possible

Comments: Small parcel, mostly wetland, on Greenland town boundary, bordering Interstate 95.

PULA ID: 42

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 43 | Acres: 81.09 | Date Visited: 01-Sep-09

Tax Map/Lot #: 0278-0001-0000 | Group ID: F | Scientist: Mark West

Address: Greenland Road

Nearest Road: Adjacent to site | Distance from Road (ft): 25 | ☐ Boundary ID present

Type of Road: Interstate

Access Description: Access is from Griffin Road office park to north or through PULA Parcels #40 or 42 to the south.

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☑ Forest	☑ Shrubland	☐ Grassland	☐ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☐ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☑ Other: highway

Habitat Types Present (percent cover):

Forest:	10	Shrub/Old Field:		Grass/Forb:		Cultivated:	
Pasture:		Wetland:	90	Open Water:		Other:	

Topography: Flat in wetland, sloping south in upland in northwest corner

Streams:

☐ Ephemeral ☑ Intermittent ☑ Perennial ☐ River ☑ Presence of fish

Water bodies:

☐ Small pond ☑ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow	☑ Shallow marsh	☑ Deep marsh	
☑ Shrub swamp	☐ Bog	☑ Forested wetland	☐ Atlantic white cedar
☑ Prime wetland	☐ Vernal pool		

Description of wetlands: Large diverse complex with stream feeding Pickering Brook.

Dominant Upland Forest (percent):

Early successional:		Northern hardwood:		Red maple:		Hemlock:	
Oak/pine:		White pine:	100	Other:			

Description of forest: Large white pine with hemlock mixed in.

Forest Age Class (percent):

Regeneration-seedling:		Sapling-pole:		Mature:	80	Old growth:	

Logging evidence: 20+ years ago | Type of cut:

☑ NH Natural Heritage Data?

☑ Rare Plant Community: Herbaceous seepage swamp; swamp white oak; basin swamp; red maple-sensitive fern swamp

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification: High
Highest Ranked Habitat: State
☑ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: Shallow & deep marsh habitat for spotted and Blandings turtle. Open water areas in streams and marshes.

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Wood pewee; mallard; grackle

Habitat Degradation

% of Buffer with Encroachment: 30

☑ Invasive Specie (List): Phragmites, purple loosestrife

☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☐ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☐ Parking Available
☐ Watercraft Access
☐ Fishing Available
☑ Hunting Permitted
☐ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Phragmites control.

Development Potential

Description: No - conservation easement, wetland

Describe Recreational Access:

Limited access. Must access through other PULA parcels (40 or 42), or off Griffin Road office park.

Storm Water Data

Watershed ID (HUC12) Great Bay

☑ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☑ Underlying Aquifers and Transmissivity
☑ Sand & Gravel Deposits

Soils:

BMP type? Treatment swales along Interstate 95 improvements could be considered.

Potential Property Liabilities:

☑ Homeless Activity Small fort on upland along railroad bed
☑ Safety Hazard Highway in northwest corner of site
☑ Hazardous Waste Possible If highway spill occurs

Comments:

PULA ID: 43

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 44 Acres: 16.40 Date Visited: 09-Sep-10

Tax Map/Lot #: 0278-0003-0000 Group ID: F Scientist: Mark West

Address: Greenland Road

Nearest Road: Adjacent to site Distance from Road (ft): 200 ☐ Boundary ID present

Type of Road: Interstate

Access Description: Minimal access from Griffin Road/west railroad bed

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☑ Forest ☐ Shrubland ☐ Grassland ☐ Residential

☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☑ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: 5 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 95 Open Water: Other:

Topography: Flat.

Streams:

☐ Ephemeral ☑ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☑ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands: ☐ Wet Meadow ☑ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☑ Forested wetland ☐ Atlantic white cedar

☑ Prime wetland ☐ Vernal pool

Description of wetlands: Part of Great Bog wetland complex, includes swamp white oak stand

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: 100 Other:

Description of forest: Northern edge of site abuts white pine stand

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: 100 Old growth:

Logging evidence: Type of cut:

☑ NH Natural Heritage Data?

☑ Rare Plant Community Swamp white oak basin swamp

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☐ Critical Features

Specific Habitat Features/ Type: Deep marsh

Vertical Stratification: Moderate

Highest Ranked Habitat: State

☑ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Habitat Degradation

% of Buffer with Encroachment:

☑ Invasive Specie (List): Phragmites, purple loosestrife

☐ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☐ Dumping?
☐ ATV Activity?

Wildlife Observations

Deer tracks; pileated woodpecker

Recreational Value/Potential

☐ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☐ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description: Mostly wetland.

Describe Recreational Access:

Limited to non-existent.

Storm Water Data

Watershed ID (HUC12) Great Bay

☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☑ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: Mostly wet with an upland island.

PULA ID: 44

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 45 Acres: 17.00 Date Visited: 09-Sep-10

Tax Map/Lot #: 0278-0002-0000 Group ID: F Scientist: Mark West

Address: Greenland Road

Nearest Road: Adjacent to site Distance from Road (ft): 600 ☐ Boundary ID present

Type of Road: Interstate

Access Description: Minimal access from Griffin Road/west railroad bed

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☑ Forest	☐ Shrubland	☐ Grassland	☐ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☑ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☐ Other:

Habitat Types Present (percent cover):

Forest: 20 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 80 Open Water: Other:

Topography: Flat with small hill for pine island.

Streams:

☐ Ephemeral ☑ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☑ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow	☑ Shallow marsh	☑ Deep marsh	
☐ Shrub swamp	☐ Bog	☑ Forested wetland	☐ Atlantic white cedar
☐ Prime wetland	☐ Vernal pool		

Description of wetlands: Part of Great Bog wetland complex, includes swamp white oak stand.

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: 100 Other:

Description of forest: Island of large white pine on site.

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: 100 Old growth:

Logging evidence: Type of cut:

☑ NH Natural Heritage Data?

☑ Rare Plant Community Swamp white oak basin swamp

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

- [x] Critical Habitat
- [x] Critical Features

Specific Habitat Features/ Type: Shallow & deep marsh habitat for spotted and Blandings turtle. Open water areas in streams and marshes.

Vertical Stratification: Moderate

Highest Ranked Habitat: State

- [x] Proximity to Beaver/Mink/Otter

Connectivity

- [x] Corridor (through or adjacent)
- [x] Wetland Connectivity
- [x] Upland Connectivity

Wildlife Observations

Pileated woodpecker

Habitat Degradation

% of Buffer with Encroachment: 0

- [x] Invasive Specie (List): Phragmites, purple loosestrife
- [ ] Activities adversely affecting wildlife function?
- [ ] Significant Disturbance?
- [x] Structures obstructing wildlife movement?
- [ ] Dumping?
- [ ] ATV Activity?

Route 95 obstructs wildlife movement

Recreational Value/Potential

- [ ] Parking Available
- [ ] Watercraft Access
- [ ] Fishing Available
- [x] Hunting Permitted
- [ ] Walking/Biking Trails
- [ ] Passive Recreation
- [ ] Tidal Access
- [ ] Potential Ballfield
- [x] Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description:

Describe Recreational Access:

Limited to non-existent.

Storm Water Data

Watershed ID (HUC12) Great Bay

- [x] Upstream sources of pollution
- [ ] Erosion/sedimentation observed
- [ ] Stabilization needed
- [ ] BMP or BMP modification needed

Additional Natural Resource Data Layers

- [x] Adjacent Conservation Land
- [ ] Underlying Aquifers and Transmissivity
- [ ] Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

- [ ] Homeless Activity
- [ ] Safety Hazard
- [ ] Hazardous Waste Possible

Comments: Almost entirely wetland. Remote parcel in Great Bog.

PULA ID: 45

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 46 Acres: 6.77 Date Visited: 01-Sep-09

Tax Map/Lot #: 0280-0003-0000 Group ID: F Scientist: Mark West

Address: Greenland Road

Nearest Road: Adjacent to site Distance from Road (ft): 50 ☑ Boundary ID present

Type of Road: Interstate

Access Description: Only access is along railroad bed from Griffin Road offices.

Existing Structures on Site: ☐ Historical features Railroad bed

Adjacent Land Uses (check all that apply):

☑ Forest	☑ Shrubland	☐ Grassland	☐ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☑ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☑ Other: highway

Habitat Types Present (percent cover):

Forest:	10	Shrub/Old Field:		Grass/Forb:		Cultivated:	
Pasture:		Wetland:	90	Open Water:		Other:	

Topography: Wetland is flat and small upland in western end slopes east.

Streams:

☐ Ephemeral ☑ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow	☑ Shallow marsh	☑ Deep marsh	
☑ Shrub swamp	☐ Bog	☐ Forested wetland	☐ Atlantic white cedar
☐ Prime wetland	☐ Vernal pool		

Description of wetlands: Marsh between I-95 off ramp and railroad bed drains south into Great Bog.

Dominant Upland Forest (percent):

Early successional:		Northern hardwood:	50	Red maple:		Hemlock:	
Oak/pine:	50	White pine:		Other:			

Description of forest: Some large pines and disturbed areas.

Forest Age Class (percent):

Regeneration-seedling:		Sapling-pole:	20	Mature:	80	Old growth:	

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification: Moderate
Highest Ranked Habitat:
☐ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: Shallow marsh, potential habitat for spotted turtle.

Connectivity

☐ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Red winged blackbird; American robin, song sparrow

Habitat Degradation

% of Buffer with Encroachment:
☑ Invasive Specie (List): Phragmites, purple loosestrife, multiflora rose, honeysuckle, Russian olive
☐ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☐ Structures obstructing wildlife movement?
☐ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☐ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☐ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description:

Describe Recreational Access:

Limited due to no road frontage

Storm Water Data

Watershed ID (HUC12) Great Bay
☑ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☑ Homeless Activity Old camp sites
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: Narrow strip of land between off ramp and railroad bed. Limited potential unless railroad bed is used as trail.

PULA ID: 46

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 47 Acres: 16.96 Date Visited: 01-Sep-09

Tax Map/Lot #: 0263-0003-0000 Group ID: F Scientist: Mark West

Address: Greenland Road

Nearest Road: Adjacent to site Distance from Road (ft): 200 ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Only access is off Griffin Road/ office parking lots

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☐ Forest ☑ Shrubland ☐ Grassland ☐ Residential

☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☑ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 100 Open Water: Other:

Topography: Flat

Streams:

☐ Ephemeral ☑ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☑ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☑ Shallow marsh ☑ Deep marsh

☑ Shrub swamp ☐ Bog ☐ Forested wetland ☐ Atlantic white cedar

☑ Prime wetland ☐ Vernal pool

Description of wetlands: Large complex, forested in the north and emergent in the south

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☑ NH Natural Heritage Data?

☑ Rare Plant Community Red maple-sensitive fern swamp

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☐ Critical Features

Specific Habitat Features/ Type: Shallow marsh has potential for spotted turtle. Pockets of open water.

Vertical Stratification: High

Highest Ranked Habitat: Biological Region

☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Red winged blackbird; green frog; painted turtle; turkey vulture

Habitat Degradation

% of Buffer with Encroachment: 25

☑ Invasive Specie (List): phragmites, glossy leaved buckthorn

☐ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☐ Structures obstructing wildlife movement?
☐ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☐ Parking Available
☐ Watercraft Access
☐ Fishing Available
☑ Hunting Permitted
☐ Walking/Biking Trails
☐ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description: Phragmites control

Recommendations to improve access or overall potential:

Development Potential

Description: No - wetland and conservation land

Describe Recreational Access:

Limited; from office park off Griffin Road onto railroad bed.

Storm Water Data

Watershed ID (HUC12) Great Bay

☑ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: Exemplary community of red maple-sensitive fern swamp. Has been somewhat degraded by adjacent development and invasive species.

PULA ID: 47

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 48 Acres: 4.06 Date Visited: 01-Aug-09

Tax Map/Lot #: 0260-0159-0000 Group ID: Scientist: Mark West

Address: off Schurman Ave.

Nearest Road: Adjacent to site Distance from Road (ft): ☑ Boundary ID present

Type of Road: Interstate

Access Description: Parking at the end of Schurman Ave. for 4 cars. Property also borders interstate.

Existing Structures on Site: ☐ Historical features Park with playground and basketball court.

Adjacent Land Uses (check all that apply):

☑ Forest ☐ Shrubland ☐ Grassland ☑ Residential

☐ Pasture ☐ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☑ Other: highway

Habitat Types Present (percent cover):

Forest: 40 Shrub/Old Field: Grass/Forb: 30 Cultivated:

Pasture: Wetland: Open Water: Other: 30 playground

Topography: Gentle slope east and north

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☐ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands:

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: 30 Hemlock:

Oak/pine: 70 White pine: Other:

Description of forest: Small woodland between residential area and Interstate 95.

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 50 Mature: 50 Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: Moderate

Highest Ranked Habitat:

☐ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)

☐ Wetland Connectivity

☑ Upland Connectivity

Wildlife Observations

Habitat Degradation

% of Buffer with Encroachment: 80

☑ Invasive Specie (List):

☑ Activities adversely affecting wildlife function?

☑ Significant Disturbance?

☑ Structures obstructing wildlife movement?

☑ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☐ Walking/Biking Trails

☑ Passive Recreation

☐ Tidal Access

☑ Potential Ballfield

☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description:

Describe Recreational Access:

Parking spaces on road at end of Schurman Ave.

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☐ Upstream sources of pollution

☐ Erosion/sedimentation observed

☐ Stabilization needed

☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land

☑ Underlying Aquifers and Transmissivity

☑ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: Small park isolated by proximity to Interstate 95. Serves Sherburne Road neighborhood.

PULA ID: 48

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 49 Acres: 0.61 Date Visited: 01-Aug-09

Tax Map/Lot #: 0260-0140-0000 Group ID: Scientist: Mark West

Address: Colonial Drive

Nearest Road: On-site Distance from Road (ft): ☑ Boundary ID present

Type of Road: 2-lane paved

Access Description: Access is off of Colonial Drive between 2 houses. Interstate also borders site.

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☑ Forest ☐ Shrubland ☐ Grassland ☑ Residential
☐ Pasture ☐ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial
☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☑ Other: Interstate

Habitat Types Present (percent cover):

Forest: 80 Shrub/Old Field: Grass/Forb: 20 Cultivated:
Pasture: Wetland: Open Water: Other:

Topography: Flat.

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh
☐ Shrub swamp ☐ Bog ☐ Forested wetland ☐ Atlantic white cedar
☐ Prime wetland ☐ Vernal pool

Description of wetlands:

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:
Oak/pine: 100 White pine: Other:

Description of forest: Small woodland finger between residential and interstate.

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 30 Mature: 70 Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: Moderate

Highest Ranked Habitat:

☐ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)

☐ Wetland Connectivity

☑ Upland Connectivity

Wildlife Observations

None.

Habitat Degradation

% of Buffer with Encroachment: 90

☐ Invasive Specie (List):

☑ Activities adversely affecting wildlife function?

☑ Significant Disturbance?

☑ Structures obstructing wildlife movement?

☑ Dumping?

☐ ATV Activity?

Dumping of brush.

Recreational Value/Potential

☑ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☐ Walking/Biking Trails

☐ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description:

Describe Recreational Access:

Along Colonial Drive in residential neighborhood.

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☐ Upstream sources of pollution

☐ Erosion/sedimentation observed

☐ Stabilization needed

☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land

☑ Underlying Aquifers and Transmissivity

☑ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: Small parcel with limited potential.

PULA ID: 49

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 50 Acres: 4.34 Date Visited: 01-Aug-09

Tax Map/Lot #: 0261-0077-0000 Group ID: Scientist: Mark West

Address: Sherburne Road

Nearest Road: Adjacent to site Distance from Road (ft): ☑ Boundary ID present

Type of Road: 2-lane paved

Access Description: Access on Sherburne Road is part of yard. Remaining portion of lot entirely fenced.

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☑ Forest ☑ Shrubland ☐ Grassland ☑ Residential
☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial
☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: 70 Shrub/Old Field: 26 Grass/Forb: 4 Cultivated:
Pasture: Wetland: Open Water: Other:

Topography: Flat to gentle slope northeast.

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh
☐ Shrub swamp ☐ Bog ☑ Forested wetland ☐ Atlantic white cedar
☐ Prime wetland ☐ Vernal pool

Description of wetlands: Red maple swamp ditched and historically disturbed.

Dominant Upland Forest (percent):

Early successional: 20 Northern hardwood: 70 Red maple: Hemlock:
Oak/pine: White pine: 10 Other:

Description of forest: Mostly hardwoods with lots of invasive bittersweet.

Forest Age Class (percent):

Regeneration-seedling: 20 Sapling-pole: 20 Mature: 60 Old growth:

Logging evidence: 10-20 years ag Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification: High
Highest Ranked Habitat:
☐ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: Old fields with dense cover and shrub sapling growth for NE cottontail.

Connectivity

☐ Corridor (through or adjacent)
☐ Wetland Connectivity
☐ Upland Connectivity

Wildlife Observations

American robin; catbird; crow; blue jay; chipmunk

Habitat Degradation

% of Buffer with Encroachment: 50

☑ Invasive Specie (List): Buckthorn, bitterweet, honeysuckle, barberry

☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☐ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☐ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Fenced due to water supply protection?

Development Potential

Description: No -- assume need for protection

Describe Recreational Access:

Parking along Sherburne however majority of site is fenced.

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land
☑ Underlying Aquifers and Transmissivity
☑ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: This site is surrounded by a chain link fence preventing access.

PULA ID: 50

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 51 Acres: 0.20 Date Visited: 01-Aug-09

Tax Map/Lot #: 0259-0025-0000 Group ID: G Scientist:

Address: Dartmouth Street, Harvard Street

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Gated entrance to municipal well site on PULA Parcel 55

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☑ Forest ☐ Shrubland ☐ Grassland ☑ Residential
☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☑ Industrial/Commercial
☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: 80 Shrub/Old Field: Grass/Forb: Cultivated:
Pasture: Wetland: Open Water: Other: 20 Roadway

Topography: Flat

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh
☐ Shrub swamp ☐ Bog ☑ Forested wetland ☐ Atlantic white cedar
☐ Prime wetland ☐ Vernal pool

Description of wetlands:

Dominant Upland Forest (percent):

Early successional: Northern hardwood: 30 Red maple: Hemlock:
Oak/pine: White pine: 70 Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth: 100

Logging evidence: 20+ years ago Type of cut:

☐ NH Natural Heritage Data?
☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: Moderate

Highest Ranked Habitat:

☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)

☑ Wetland Connectivity

☑ Upland Connectivity

Wildlife Observations

Habitat Degradation

% of Buffer with Encroachment: 80

☑ Invasive Specie (List): Knotweed

☑ Activities adversely affecting wildlife function?

☐ Significant Disturbance?

☐ Structures obstructing wildlife movement?

☑ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☐ Walking/Biking Trails

☐ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description:

Describe Recreational Access:

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☑ Upstream sources of pollution

☑ Erosion/sedimentation observed

☐ Stabilization needed

☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land

☑ Underlying Aquifers and Transmissivity

☑ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: Small lot connected to PULA 53; potential clean up includes invasive species control.

PULA ID: 51

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 52 Acres: 5.79 Date Visited: 01-Aug-09

Tax Map/Lot #: 0258-0036-0000 Group ID: G Scientist: Mark West

Address: Greenland Road

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Park and ride on Greenland Road -- room for 20+ cars; also abuts Dodge Ave.

Existing Structures on Site: ☐ Historical features Metal shed at eastern end of site

Adjacent Land Uses (check all that apply):

☑ Forest	☐ Shrubland	☐ Grassland	☑ Residential
☐ Pasture	☐ Freshwater Wetland	☐ Open Water	☑ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☐ Other:

Habitat Types Present (percent cover):

Forest: 10 Shrub/Old Field: 60 Grass/Forb: 20 Cultivated:

Pasture: Wetland: 10 Open Water: Other:

Topography: Small hill in northern portion of site.

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

	☑ Wet Meadow	☐ Shallow marsh	☐ Deep marsh
☐ Shrub swamp	☐ Bog	☐ Forested wetland	☐ Atlantic white cedar
☐ Prime wetland	☐ Vernal pool		

Description of wetlands: Wet areas in lawn area along southern boundary.

Dominant Upland Forest (percent):

Early successional: 60 Northern hardwood: Red maple: Hemlock:

Oak/pine: 10 White pine: Other: 20

Description of forest: Most of parcel is under power lines scrub-shrub

Forest Age Class (percent):

Regeneration-seedling: 60 Sapling-pole: Mature: 10 Old growth:

Logging evidence: Type of cut: Clear cut

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification: Moderate
Highest Ranked Habitat:
☐ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: Old field; potential NE cottontail habitat

Connectivity

☑ Corridor (through or adjacent)
☐ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Songbird habitat

Habitat Degradation

% of Buffer with Encroachment: 50
☑ Invasive Specie (List): Crown vetch
☑ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☐ Structures obstructing wildlife movement?
☐ Dumping?
☑ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☑ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☑ Potential Ballfield
☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description:

Describe Recreational Access:

Parking lot for 20+ vehicles abuts power line with trail north to PULA 53

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo
☑ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land
☑ Underlying Aquifers and Transmissivity
☑ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: Parcel includes area under power line, parking lot lawn area, and small thick woods in southeast corner.

PULA ID: 52

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 53 Acres: 18.97 Date Visited: 01-Aug-09

Tax Map/Lot #: 0259-0027-0000 Group ID: G Scientist: Mark West

Address: End of Howard Street & Greenland Road

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Gated access through PULA Parcel 51 and trail from PULA parcel 52

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☑ Forest ☑ Shrubland ☐ Grassland ☐ Residential

☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: 80 Shrub/Old Field: 15 Grass/Forb: Cultivated:

Pasture: Wetland: 5 Open Water: Other:

Topography: Sloping north with very steep excavated slopes along southeast boundary; flat in northern portion

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands: ☑ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☑ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands: Wetland in northeast portion of site adjacent to pond on PULA parcel 54

Dominant Upland Forest (percent):

Early successional: 20 Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: 80 Other:

Description of forest: White pine forest with historic disturbance in eastern portion.

Forest Age Class (percent):

Regeneration-seedling: 20 Sapling-pole: Mature: 80 Old growth:

Logging evidence: 20+ years ago Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: Moderate

Highest Ranked Habitat:

☑ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)

☐ Wetland Connectivity

☑ Upland Connectivity

Wildlife Observations

Mature pine forest provides woodland habitat refuge in a developed landscape.

Habitat Degradation

% of Buffer with Encroachment: 20

☑ Invasive Specie (List): Asia bittersweet

☑ Activities adversely affecting wildlife function?

☑ Significant Disturbance?

☐ Structures obstructing wildlife movement?

☑ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☐ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☐ Walking/Biking Trails

☐ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description:

Describe Recreational Access:

Access to site via gated foot access through PULA parcel 52

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☐ Upstream sources of pollution

☐ Erosion/sedimentation observed

☐ Stabilization needed

☐ BMP or BMP modification needed

BMP type?

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land

☑ Underlying Aquifers and Transmissivity

☑ Sand & Gravel Deposits

Soils:

Potential Property Liabilities:

☐ Homeless Activity

☑ Safety Hazard Steep slope in southeast portion abuts residential land

☐ Hazardous Waste Possible

Comments: White pine forest has management potential; lots of clean up needed in northeast portion of site: old vehicles, pipes, stone piles, etc.

PULA ID: 53

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 54 Acres: 5.05 Date Visited: 01-Aug-09

Tax Map/Lot #: 0241-0017-0000 Group ID: G Scientist: Mark West

Address: Old railroad bed at end of Howard Street

Nearest Road: Adjacent to site Distance from Road (ft): 50 ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Access through PULA parcels 51, 53, & 55

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☑ Forest ☑ Shrubland ☐ Grassland ☐ Residential

☐ Pasture ☑ Freshwater Wetland ☑ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☑ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: 8 Grass/Forb: Cultivated:

Pasture: Wetland: Open Water: 92 Other:

Topography: Flat

Streams:

☐ Ephemeral ☑ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☑ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands: ☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☐ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands: Pond appears to be excavated and is adjacent to well site.

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: 100 Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: Low

Highest Ranked Habitat:

☑ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)

☑ Wetland Connectivity

☑ Upland Connectivity

Wildlife Observations

Water fowl habitat - green heron observed; amphibian/fish habitat

Habitat Degradation

% of Buffer with Encroachment: 60

☑ Invasive Specie (List): purple loosestrife

☐ Activities adversely affecting wildlife function?

☑ Significant Disturbance?

☐ Structures obstructing wildlife movement?

☐ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☐ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☐ Walking/Biking Trails

☐ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description:

Describe Recreational Access:

Access only through PULA parcels 51, 53, & 55. Railroad bed is abandoned - possible upgrade.

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☐ Upstream sources of pollution

☑ Erosion/sedimentation observed

☑ Stabilization needed

☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land

☑ Underlying Aquifers and Transmissivity

☑ Sand & Gravel Deposits

Soils:

BMP type? Northern border and discharge from pond could be managed by construction of grassed swale.

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: Most of this parcel is encompassed by the pond.

PULA ID: 54

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 55 | Acres: 14.86 | Date Visited: 01-Aug-09

Tax Map/Lot #: 0241-0016-0000 | Group ID: G | Scientist: Mark West

Address: End of Howard Street

Nearest Road: On-site | Distance from Road (ft): | ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Access through PULA parcels 51 & 53 and/or railroad bed along the northern boundary

Existing Structures on Site: ☑ Historical features — New & old water supply buildings (3 total); possible historical feat

Adjacent Land Uses (check all that apply):

☑ Forest	☑ Shrubland	☐ Grassland	☐ Residential
☐ Pasture	☑ Freshwater Wetland	☑ Open Water	☑ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☑ Abandoned/Disturbed	☐ Other:

Habitat Types Present (percent cover):

Forest:	2	Shrub/Old Field:	2	Grass/Forb:		Cultivated:	
Pasture:		Wetland:	90	Open Water:		Other:	6 Paved/gravel/disturbed

Topography: Flat with small island of hemlock

Streams:

☐ Ephemeral ☑ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow	☑ Shallow marsh	☑ Deep marsh	
☑ Shrub swamp	☐ Bog	☐ Forested wetland	☐ Atlantic white cedar
☐ Prime wetland	☐ Vernal pool		

Description of wetlands: Large cattail marsh with some areas of scrub-shrub and phragmites.

Dominant Upland Forest (percent):

Early successional:		Northern hardwood:		Red maple:		Hemlock:	
Oak/pine:		White pine:	100	Other:			

Description of forest:

Forest Age Class (percent):

Regeneration-seedling:		Sapling-pole:		Mature:	100	Old growth:	

Logging evidence: | Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

- [x] Critical Habitat
- [x] Critical Features

Specific Habitat Features/ Type: Large dense marsh for secretive wading bird species.

Vertical Stratification: Moderate

Highest Ranked Habitat:

- [x] Proximity to Beaver/Mink/Otter

Connectivity

- [x] Corridor (through or adjacent)
- [x] Wetland Connectivity
- [x] Upland Connectivity

Wildlife Observations

Kingfisher; green heron; catbird; green frog; goldfinch

Habitat Degradation

% of Buffer with Encroachment: 60

- [x] Invasive Specie (List): purple loosestrife
- [ ] Activities adversely affecting wildlife function?
- [x] Significant Disturbance?
- [x] Structures obstructing wildlife movement?
- [x] Dumping?
- [ ] ATV Activity?

Recreational Value/Potential

- [ ] Parking Available
- [ ] Watercraft Access
- [ ] Fishing Available
- [ ] Hunting Permitted
- [x] Walking/Biking Trails
- [ ] Passive Recreation
- [ ] Tidal Access
- [ ] Potential Ballfield
- [ ] Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description:

Describe Recreational Access:

Access through PULA parcels 51 & 53; foot access from railroad bed

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

- [x] Upstream sources of pollution
- [x] Erosion/sedimentation observed
- [x] Stabilization needed
- [x] BMP or BMP modification needed

Additional Natural Resource Data Layers

- [ ] Adjacent Conservation Land
- [ ] Underlying Aquifers and Transmissivity
- [ ] Sand & Gravel Deposits

Soils:

BMP type? Grassed swale/berm; Install grassed swale from pond on PULA parcel 54 and along southern boundary of wetland adjacent to gravel parking/staging area

Potential Property Liabilities:

- [x] Homeless Activity — Camp on island along railroad bed
- [ ] Safety Hazard
- [ ] Hazardous Waste Possible

Comments: This large marsh has potential for both phragmites control and for BMP installation; proposed Prime Wetland candidate.

PULA ID: 55

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 56 Acres: 9.57 Date Visited: 01-Aug-09

Tax Map/Lot #: 0240-0002-2001 Group ID: G Scientist: Mark West

Address: Bothwick Ave.

Nearest Road: Adjacent to site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Access is very limited by the fact that all of the site is wetlands.

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☐ Forest ☐ Shrubland ☐ Grassland ☐ Residential

☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☑ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 100 Open Water: Other:

Topography: Flat.

Streams:

☐ Ephemeral ☑ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☑ Shallow marsh ☑ Deep marsh

☑ Shrub swamp ☐ Bog ☐ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands: Large cattail marsh with pockets of scrub shrub and deep marsh.

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification: Moderate
Highest Ranked Habitat:
☑ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: Large freshwater marsh suitable for secretive wading birds

Connectivity

☐ Corridor (through or adjacent)
☑ Wetland Connectivity
☐ Upland Connectivity

Habitat Degradation

% of Buffer with Encroachment: 70
☑ Invasive Specie (List): Phragmites, purple loosestrife
☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☐ Dumping?
☐ ATV Activity?

Wildlife Observations

Red-winged blackbird; grackle, mallard; green frog

Recreational Value/Potential

☐ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☐ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description:

Describe Recreational Access:

All wetland, not traversable.

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☑ Upstream sources of pollution
☑ Erosion/sedimentation observed
☑ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land
☑ Underlying Aquifers and Transmissivity
☑ Sand & Gravel Deposits

Soils:

BMP type? Treatment swales; northwest portion borders parking lot which needs treatment swales to improve water.

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: Entire site is wetland and is proposed prime wetland candidate. Drains northwest under Bothwick Ave. and hospital site.

PULA ID: 56

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 57 Acres: 9.60 Date Visited: 09-Sep-10

Tax Map/Lot #: 0240-0002-1001 Group ID: H Scientist: Mark West

Address: Borthwick Ave.

Nearest Road: Adjacent to site Distance from Road (ft): 35 ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Access through PULA parcel 58 off Borthwick Ave.

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☑ Forest	☑ Shrubland	☐ Grassland	☐ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☑ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☑ Other: Interstate

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: 15 Grass/Forb: Cultivated:

Pasture: Wetland: 85 Open Water: Other:

Topography: Flat with pit and and mound in wetland.

Streams:

☐ Ephemeral ☑ Intermittent ☑ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow	☑ Shallow marsh	☑ Deep marsh	
☑ Shrub swamp	☐ Bog	☑ Forested wetland	☐ Atlantic white cedar
☐ Prime wetland	☐ Vernal pool		

Description of wetlands: Wetland includes thick marsh and scrub shrub with associated stream.

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification: Moderate
Highest Ranked Habitat:
☑ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: Deep marsh areas could be utilized by Blandings and spotted turtle. Pockets of standing water with soft muddy bottom.

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Red-winged blackbird; song sparrow; deer carcass

Habitat Degradation

% of Buffer with Encroachment: 50

☑ Invasive Specie (List): Purple loosestrife, phragmites, knotweed

☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☐ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☐ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description: Low, mostly wetland

Describe Recreational Access:

Parking in hospital lot is possible but it is mostly bordered with wetlands.

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☑ Upstream sources of pollution
☑ Erosion/sedimentation observed
☑ Stabilization needed
☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

BMP type? Treatment swale; portions of the parking lot drain directly into wetland.

Potential Property Liabilities:

☑ Homeless Activity Old activity on Pine Island (PULA parcel 58)
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: High value wetland complex bordering Portsmouth Hospital site. Good potential for water quality improvements.

PULA ID: 57

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 58 Acres: 17.41 Date Visited: 01-Sep-09

Tax Map/Lot #: 0234-0007-0003 Group ID: H Scientist: Mark West

Address: Borthwick Ave.

Nearest Road: On-site Distance from Road (ft): ☑ Boundary ID present

Type of Road: 2-lane paved

Access Description: Pull-off for a few cars on west site of Borthwick Ave. Road under powerline.

Existing Structures on Site: ☐ Historical features Power poles

Adjacent Land Uses (check all that apply):

☑ Forest	☑ Shrubland	☐ Grassland	☑ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☑ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☐ Other:

Habitat Types Present (percent cover):

Forest: 20 Shrub/Old Field: 20 Grass/Forb: Cultivated:

Pasture: Wetland: 60 Open Water: Other:

Topography: Slopes west toward Interstate 95. Upland island is a geologic feature called a kame, with steep slopes on eastern end.

Streams:

☐ Ephemeral ☑ Intermittent ☑ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow	☑ Shallow marsh	☑ Deep marsh	
☑ Shrub swamp	☐ Bog	☑ Forested wetland	☐ Atlantic white cedar
☐ Prime wetland	☐ Vernal pool		

Description of wetlands:

Dominant Upland Forest (percent):

Early successional: 40 Northern hardwood: Red maple: 30 Hemlock:

Oak/pine: White pine: 30 Other:

Description of forest: Thick shrub-sapling under powerlines. White Pine Island. Red maple swamp along I-95.

Forest Age Class (percent):

Regeneration-seedling: 20 Sapling-pole: 40 Mature: 40 Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification: High
Highest Ranked Habitat:
☑ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: Shallow marsh habitat for spotted turtle, but water quality may be an issue. Pockets of open water.

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

raccoon trakcs; deer tracks, song sparrow; catbird

Habitat Degradation

% of Buffer with Encroachment: 65

☑ Invasive Specie (List): Purple loosestrife

☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?

☑ Dumping?
☑ ATV Activity?

Dumping of brush & debris; truck activity under power lines

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☑ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: A parking area could be installed (access to island limited by wide wetland crossing)

Development Potential

Description: Yes - Upland in northeast corner could be developed.

Describe Recreational Access:

Three is an impaired road under powerlines that goes into site several hundred feed. Room for several cars at road entrance.

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☑ Upstream sources of pollution
☑ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☑ Underlying Aquifers and Transmissivity
☑ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: High value wetland with upland island powerlines may provide alternative energy site.

PULA ID: 58

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 59 Acres: 0.11 Date Visited: 20-Aug-09

Tax Map/Lot #: 0233-0139-0000 Group ID: Scientist: Earle Chase

Address: Foch Avenue

Nearest Road: Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Washington Street to Bayberry Land to Foch Land

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☐ Forest ☐ Shrubland ☐ Grassland ☐ Residential

☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 100 Open Water: Other:

Topography: Flat.

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☑ Shrub swamp ☐ Bog ☑ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands: This wetland is a componet of a large system. It is forested with a scrub-shrub understory. Green ash is a dominant tree species.

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☑ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification: High
Highest Ranked Habitat:
☐ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: Scrub-shrub wetland; vegetative cover; scrub-shrub wetland

Connectivity

☐ Corridor (through or adjacent)
☑ Wetland Connectivity
☐ Upland Connectivity

Wildlife Observations

Sensitive fern and green ash provide potential seed source

Habitat Degradation

% of Buffer with Encroachment: 25
☑ Invasive Specie (List): buckthorn
☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☑ Dumping?
☐ ATV Activity?

Dumping of leaves, stock, piling of old soils

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Describe Recreational Access:

Restoration/Property Potential

Description: Remove leaf/debris piles; contains soil piles with silt fence

Recommendations to improve access or overall potential:

Development Potential

Description: No; parcel is all wet

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo
☑ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

BMP type?

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: The presence and abundance of green ash, a less common tree species, accentuates the value of this wetland. It is unusual to find a wetland with more that a few individual trees. A large-diametered green ash was observed in this wetland. After nominating this tree in the Big Tree Contest, it was determined that the tree was a Rockingham County champion. This may emphasize that even small parcels may

PULA ID: 59

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 60 Acres: 0.47 Date Visited: 20-Aug-09

Tax Map/Lot #: 0233-0138-0000 Group ID: Scientist: Earle Chase

Address: Via Bayberry Lane to existing utility easement or via Foch Ave.

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Via Bayberry Lane to existing utility easement or via Foch Ave.

Existing Structures on Site: ☐ Historical features Adjacent utility easement

Adjacent Land Uses (check all that apply):

☑ Forest ☐ Shrubland ☐ Grassland ☑ Residential
☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☑ Industrial/Commercial
☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: Cultivated:
Pasture: Wetland: 100 Open Water: Other:

Topography: Flat.

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh
☑ Shrub swamp ☐ Bog ☑ Forested wetland ☐ Atlantic white cedar
☐ Prime wetland ☐ Vernal pool

Description of wetlands: The parcel is entirely wetland. The wetland is forested with a scrub-shrub understory. Somewhat uncommon, green ash is the dominant tree.

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:
Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community The presence & abundance of green ash accentuates the value of this wetland.

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☐ Critical Features
Specific Habitat Features/ Type: Scrub-shrub wetland; vegetative cover, wetland habitat
Vertical Stratification: High
Highest Ranked Habitat:
☐ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Cottontail (spp.) on adjacent utility easement

Habitat Degradation

% of Buffer with Encroachment: 25
☑ Invasive Specie (List): Purple loosestrife
☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☑ Dumping?
☐ ATV Activity?
Dumping leaves and debris, barrel at end of Foch Ave.

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☐ Existing Conservation Land

Restoration/Property Potential

Description: Remove leaf & debris piles, secure existing stock piles of soil

Recommendations to improve access or overall potential:

Development Potential

Description: No - entire parcel is wetland

Describe Recreational Access:

Washington Street to Bayberry Lane to Foch Ave. Northern perimeter can be accessed by a utility easement.

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo
☑ Upstream sources of pollution
☐ Erosion/sedimentation observed
☑ Stabilization needed
☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits
Soils:

BMP type? Silt fence; piles of soil at end of Foch Land not contained by silt fence.

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: The potential usage by the observed cottontail (spp.) emphasizes the importance of small parcels of "open space" within an urban landscape.

PULA ID: 60

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 61 Acres: 0.32 Date Visited: 20-Aug-09

Tax Map/Lot #: 0233-0146-0000 Group ID: Scientist: Earle Chase

Address: off Bayberry Lane

Nearest Road: Adjacent to site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Off Islington Street to Barberry Lane, #61 is situated adjacent to railroad tracks

Existing Structures on Site: ☐ Historical features Adjacent to a railroad

Adjacent Land Uses (check all that apply):

☐ Forest ☐ Shrubland ☐ Grassland ☑ Residential

☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☑ Other: Route 1, a railroad

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 100 Open Water: Other:

Topography: Flat.

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☑ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands: This is a forested wetland with a thick herb layer.

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community The existing plant community has a high composition of green ash.

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat
☐ Critical Features
Specific Habitat Features/ Type:

Vertical Stratification: Moderate
Highest Ranked Habitat:
☐ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)
☐ Wetland Connectivity
☐ Upland Connectivity

Wildlife Observations

Wild turkeys were observed in the adjacent city-owned property.

Habitat Degradation

% of Buffer with Encroachment: 30

☑ Invasive Specie (List): Tartarian honeysuckle

☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?

☑ Dumping?
☑ ATV Activity?
Piles of beer cans observed. ATV activity was evident along the railroad tracks.

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☑ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Potential to remove invasive species and to clean up accumulated trash.

Development Potential

Description: No - this parcel is wetland.

Describe Recreational Access:

Off Islington to Bayberry. Continue to railroad tracks, park on left in open field area.

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☑ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☑ Homeless Activity Type of trash may indicate occasional usage by homeless or neighborhood kids.
☑ Safety Hazard nearby railroad
☐ Hazardous Waste Possible

Comments:

PULA ID: 61

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 62 Acres: 0.61 Date Visited: 20-Aug-09

Tax Map/Lot #: 0233-0147-0000 Group ID: Scientist: Earle Chase

Address: off Bayberry Lane

Nearest Road: Adjacent to site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Off Islington to Bayberry Lane, PULA Parcel #62 is situated north and adjacent to the existing railroad

Existing Structures on Site: ☐ Historical features adjacent to railroad

Adjacent Land Uses (check all that apply):

☐ Forest	☐ Shrubland	☐ Grassland	☑ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☐ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☑ Other: railroad

Habitat Types Present (percent cover):

Forest: 50 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 50 Open Water: Other:

Topography: Flat

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow	☐ Shallow marsh	☐ Deep marsh	
☐ Shrub swamp	☐ Bog	☑ Forested wetland	☐ Atlantic white cedar
☐ Prime wetland	☐ Vernal pool		

Description of wetlands: The wetland that is situated at the parcel is part of a larger wetland system. This wetland is chiefly forested with 2' thick herb layer.

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: 30 Hemlock:

Oak/pine: 40 White pine: Other: 30 Quaking aspen, birch

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 25 Mature: 75 Old growth:

Logging evidence: 20+ years ago Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community This parcel contains a component of a wetland that has a high % of green ash

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: Moderate

Highest Ranked Habitat:

☐ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)

☑ Wetland Connectivity

☐ Upland Connectivity

Wildlife Observations

Observed wild turkeys in the adjacent parcels

Habitat Degradation

% of Buffer with Encroachment: 40

☑ Invasive Specie (List): Tartarian honeysuckle

☑ Activities adversely affecting wildlife function?

☑ Significant Disturbance?

☑ Structures obstructing wildlife movement?

☐ Dumping?

☑ ATV Activity? ATV activity evident along railroad

Recreational Value/Potential

☑ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☑ Walking/Biking Trails

☐ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☑ Existing Conservation Land

Describe Recreational Access:

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Potential to remove invasive species

Development Potential

Description: No - parcel is difficult to access and is at least 50% wetlands.

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☑ Upstream sources of pollution

☐ Erosion/sedimentation observed

☐ Stabilization needed

☐ BMP or BMP modification needed

BMP type?

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land

☐ Underlying Aquifers and Transmissivity

☐ Sand & Gravel Deposits

Soils:

Potential Property Liabilities:

☐ Homeless Activity

☑ Safety Hazard nearby railroad

☐ Hazardous Waste Possible

Comments:

PULA ID: 62

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 63 Acres: 0.13 Date Visited: 21-Aug-09

Tax Map/Lot #: 0232-0004-0000 Group ID: Scientist: Earle Chase

Address: US Route 1 By-pass

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 4-lane paved

Access Description:

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☐ Forest ☐ Shrubland ☐ Grassland ☑ Residential

☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☑ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: 95 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 5 Open Water: Other:

Topography:

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☐ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands: There is a drainage swale/ditch adjacent to Route 1 with emergent vegetation.

Dominant Upland Forest (percent):

Early successional: Northern hardwood: 100 Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest: This is a very small parcel of mostly upland. The tract contains chiefly forest and is a mixture of hardwood trees.

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 80 Mature: 20 Old growth:

Logging evidence: 20+ years ago Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: Moderate

Highest Ranked Habitat:

☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)

☐ Wetland Connectivity

☑ Upland Connectivity

Wildlife Observations

The parcel is in close proximity to the Chase Home. There may be some overlapping usage by wildlife species.

Habitat Degradation

% of Buffer with Encroachment: 50

☑ Invasive Specie (List): puple loosestrife, buckthorn, j. barberry

☑ Activities adversely affecting wildlife function?

☑ Significant Disturbance?

☑ Structures obstructing wildlife movement?

☑ Dumping? Dumping of miscellaneous trash and debris

☐ ATV Activity?

Recreational Value/Potential

☐ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☑ Walking/Biking Trails

☐ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Clean up scattered trash, assorted debris (bedspring)

Development Potential

Description: Yes - very small size restrains possibilities.

Describe Recreational Access:

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☑ Upstream sources of pollution

☑ Erosion/sedimentation observed

☐ Stabilization needed

☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land

☐ Underlying Aquifers and Transmissivity

☐ Sand & Gravel Deposits

Soils:

BMP type? There is some runoff occurring from adjacent driveway and Route 1

Potential Property Liabilities:

☐ Homeless Activity

☑ Safety Hazard Traffic on Route 1 makes access very difficult.

☐ Hazardous Waste Possible

Comments: This parcel provides a bit of a buffer to adjacent wetland (the wetland next to the Toyota dealership).

PULA ID: 63

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 64 Acres: 0.25 Date Visited: 20-Aug-09

Tax Map/Lot #: 0242-0002-0000 Group ID: Scientist: Earle Chase

Address: Middle Road (across from beauty salon)

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description:

Existing Structures on Site: ☐ Historical features Fire hydrant, traffic light, US mailbox

Adjacent Land Uses (check all that apply):

☐ Forest ☐ Shrubland ☐ Grassland ☑ Residential

☐ Pasture ☐ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☑ Other: City park

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: 100 Cultivated:

Pasture: Wetland: Open Water: Other:

Topography: Flat

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands: ☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☐ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands:

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other: 100 Interspersed black locust trees

Description of forest: This parcel appears to be part of an adjacent city park

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: 100 Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: Low

Highest Ranked Habitat:

☐ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)

☐ Wetland Connectivity

☑ Upland Connectivity

Wildlife Observations

Potential to support various song birds - mostly those associated with urban settings.

Habitat Degradation

% of Buffer with Encroachment: 100

☐ Invasive Specie (List):

☑ Activities adversely affecting wildlife function?

☑ Significant Disturbance?

☑ Structures obstructing wildlife movement?

☐ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☐ Walking/Biking Trails

☑ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Preserve as open space.

Development Potential

Description: Possibly - size of parcel restrains any potential

Describe Recreational Access:

Off Middle Road, parking available at adjacent city park.

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☐ Upstream sources of pollution

☐ Erosion/sedimentation observed

☐ Stabilization needed

☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land

☑ Underlying Aquifers and Transmissivity

☑ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: This parcel appears to be a component of a park located between Middle Road and Islington Street. Note: 2 photos taken from Middle Road.

PULA ID: 64

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 65 Acres: 0.07 Date Visited:

Tax Map/Lot #: 0243-0053-0000 Group ID: Scientist: Earle Chase

Address: Peverly Hill Road

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Via cul-de-sac located on SE side of parcel

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☐ Forest ☐ Shrubland ☐ Grassland ☑ Residential

☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 100 Open Water: Other:

Topography: Flat

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands: ☑ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☑ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands: The perimeter of this wetland is forested. The more central component is emergent. Purple loosestrife was a noted invasive.

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community A few swamp white oaks were observed

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat
☑ Critical Features
Specific Habitat Features/ Type: Snag trees were evident
Vertical Stratification: Moderate
Highest Ranked Habitat:
☐ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)
☐ Wetland Connectivity
☐ Upland Connectivity

Wildlife Observations

The wetland may provide some songbird habitat.

Habitat Degradation

% of Buffer with Encroachment: 100
☑ Invasive Specie (List): Purple loosestrife
☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☐ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☐ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description: No - the parcel is too wet.

Describe Recreational Access:

An adjacent cul-de-sac provides parking that is off the main road.

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo
☑ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity
☑ Safety Hazard This parcel is situated on a very busy road
☐ Hazardous Waste Possible

Comments: This parcel is situated adjacent to PULA parcel #65.

PULA ID: 65

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 66 Acres: 0.15 Date Visited:

Tax Map/Lot #: 0243-0052-0000 Group ID: Scientist: Earle Chase

Address: Peverly Hill Road

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Via a cul-de-sac located to the southeast

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☐ Forest	☐ Shrubland	☐ Grassland	☑ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☐ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☐ Other:

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 100 Open Water: Other:

Topography: Flat.

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☑ Wet Meadow	☐ Shallow marsh	☐ Deep marsh	
☐ Shrub swamp	☐ Bog	☑ Forested wetland	☐ Atlantic white cedar
☐ Prime wetland	☐ Vernal pool		

Description of wetlands: The perimeter of this wetland is forested. The more central component is emergent. Purple loosestrife was a noted invasive.

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community A few swamp white oak were observed.

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat
☑ Critical Features
Vertical Stratification: Moderate
Highest Ranked Habitat:
☐ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: Snag trees were evident.

Connectivity

☐ Corridor (through or adjacent)
☐ Wetland Connectivity
☐ Upland Connectivity

Wildlife Observations

The wetland may provide some songbird habitat.

Habitat Degradation

% of Buffer with Encroachment:
☑ Invasive Specie (List): Purple loosestrife
☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☐ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☐ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Describe Recreational Access:

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description: No - parcel is too wet.

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo
☑ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

BMP type?

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

Potential Property Liabilities:

☐ Homeless Activity
☑ Safety Hazard Nearby road
☐ Hazardous Waste Possible

Comments:

PULA ID: 66

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 67 Acres: 0.10 Date Visited:

Tax Map/Lot #: 0243-0013-0000 Group ID: Scientist: Earle Chase

Address: Swett Ave. and McClintook Ave.

Nearest Road: On-site Distance from Road (ft): ☑ Boundary ID present

Type of Road: 2-lane paved

Access Description:

Existing Structures on Site: ☑ Historical features Earlier stonewall

Adjacent Land Uses (check all that apply):

☑ Forest ☐ Shrubland ☐ Grassland ☑ Residential
☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial
☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: 50 Shrub/Old Field: Grass/Forb: Cultivated:
Pasture: Wetland: 50 Open Water: Other:

Topography: Flat.

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh
☐ Shrub swamp ☐ Bog ☑ Forested wetland ☐ Atlantic white cedar
☐ Prime wetland ☐ Vernal pool

Description of wetlands: The existing wetland is forested. Surficial flowage is being directed from road into this parcel.

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: 50 Hemlock:
Oak/pine: White pine: 50 Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 50 Mature: 50 Old growth:

Logging evidence: 20+ years ago Type of cut:

☐ NH Natural Heritage Data?
☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: Moderate

Highest Ranked Habitat:

☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)

☑ Wetland Connectivity

☑ Upland Connectivity

Wildlife Observations

While on site, I spoke to the abutter, who is an avid hunter. He stated that several species of wildlife had been observed including white-tailed deer, wild turkey, red fox, white-striped skunk, and eastern coyote.

Recreational Value/Potential

☑ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☐ Walking/Biking Trails

☑ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☐ Existing Conservation Land

Describe Recreational Access:

Parking on Swett Ave.

Habitat Degradation

% of Buffer with Encroachment: 80

☐ Invasive Specie (List):

☑ Activities adversely affecting wildlife function?

☑ Significant Disturbance?

☑ Structures obstructing wildlife movement?

☐ Dumping?

☐ ATV Activity?

Restoration/Property Potential

Description: There is potential to improve stormwater management.

Recommendations to improve access or overall potential:

Development Potential

Description: No - parcel is generally too wet.

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☑ Upstream sources of pollution

☑ Erosion/sedimentation observed

☑ Stabilization needed

☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land

☐ Underlying Aquifers and Transmissivity

☐ Sand & Gravel Deposits

Soils:

BMP type? A stormwater measure is needed to prevent drainage from the nearby road from entering existing wetland.

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: PULA parcel 67 backs up against the Chase Home property. This proximity adds significantly to its value. The Chase Home property contains a large block of forestland that may provide additional sanctuary to resident wildlife species.

PULA ID: 67

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 68 Acres: 3.59 Date Visited: 14-Aug-09

Tax Map/Lot #: 0243-0004-0000 Group ID: Scientist: Earle Chase

Address: Intersection of Greenleaf Avenue and Holiday Drive

Nearest Road: 0 Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: South of Greenleaf Ave., southwest of Holiday Ave., adjacent to Family Rental units.

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☑ Forest ☐ Shrubland ☐ Grassland ☑ Residential
☐ Pasture ☐ Freshwater Wetland ☐ Open Water ☑ Industrial/Commercial
☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: 30 Cultivated:
Pasture: Wetland: 20 Open Water: Other: 40 skateboard park & rec. ct

Topography: Flat

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☑ Shallow marsh ☐ Deep marsh
☐ Shrub swamp ☐ Bog ☐ Forested wetland ☐ Atlantic white cedar
☐ Prime wetland ☐ Vernal pool

Description of wetlands: This is a low grade emergent marsh chiefly occupied by phragmites. It is, however, situated very close to Prime Wetland #62, thus providing some additional wetland buffer.

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:
Oak/pine: White pine: Other: 10 Black locust

Description of forest: This is open park. Trees are interspersed.

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 50 Mature: 50 Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat
☐ Critical Features
Specific Habitat Features/ Type:

Vertical Stratification: Low
Highest Ranked Habitat:
☐ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Songbird

Habitat Degradation

% of Buffer with Encroachment: 80

☑ Invasive Specie (List): phragmites, multiflora rose
☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☐ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☑ Potential Ballfield
☐ Existing Conservation Land

Describe Recreational Access:

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Park currently has 2 benches. Opportunity to expand recreational activities or possibly remove Phragmites from existing wetland.

Development Potential

Description: Yes

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

BMP type?

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

Potential Property Liabilities:

☐ Homeless Activity
☑ Safety Hazard At skateboard park
☐ Hazardous Waste Possible

Comments: This parcel serves as an adjacent park to a complex of rental units. Part of property is occupied by a skateboard park and recreational center.

PULA ID: 68

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 69 Acres: 3.87 Date Visited: 14-Aug-09

Tax Map/Lot #: 0221-0092-0000 Group ID: I Scientist: Earle Chase

Address: Via Andrew Jarvis Road. Parcel is situated just E of High School

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Nearest Road: Distance from Road (ft): ☐ Boundary ID present

Type of Road:

Access Description: Access via northeast parking lot at Portsmouth High School.

Existing Structures on Site: ☑ Historical features stonewalls

Adjacent Land Uses (check all that apply):

☑ Forest	☐ Shrubland	☐ Grassland	☑ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☐ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☑ Other: High school

Habitat Types Present (percent cover):

Forest: 50 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 50 Open Water: Other:

Topography: Moderate slope descending to wetland.

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow	☐ Shallow marsh	☐ Deep marsh	
☐ Shrub swamp	☐ Bog	☑ Forested wetland	☐ Atlantic white cedar
☐ Prime wetland	☐ Vernal pool		

Description of wetlands: This wetland is moderately stocked with trees. A thick herb layer (sensitive fern, jewelweed, NY aster) was observed.

Dominant Upland Forest (percent):

Early successional: Northern hardwood: 20 Red maple: Hemlock:

Oak/pine: White pine: 80 Other:

Description of forest: Many of the white pine trees are weeviled. This suggests that the parcel was open (prior pasture) and has reverted to forest.

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 20 Mature: 80 Old growth:

Logging evidence: Type of cut: Previous agricultural use

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat
☐ Critical Features

Specific Habitat Features/ Type: White pine trees provide an abundant and preferred seed source.

Vertical Stratification: Moderate

Highest Ranked Habitat:

☐ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Song bird (spp.); coniferous trees potentially attract both red squirrels and chipmunks

Habitat Degradation

% of Buffer with Encroachment: 35

☑ Invasive Specie (List): buckthorn, barberry, honeysuckle

☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☑ Dumping?
☐ ATV Activity?

Some trash at edge of parking area

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Due to proximity to High School, establish research plots to study ecology

Development Potential

Description: No - either too steep or too wet

Describe Recreational Access:

Andrew Jarvis Road to High School. Proceed to northeast parking area. Eastern perimeter of parking area abuts parcel.

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments:

PULA ID: 69

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 70 Acres: 5.09 Date Visited: 01-Sep-09

Tax Map/Lot #: 0221-002A-0000 Group ID: I Scientist: Mark West

Address: Jones Ave.

Nearest Road: Adjacent to site Distance from Road (ft): 30 ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Access off of driveway behind Portsmouth High School

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☑ Forest	☑ Shrubland	☑ Grassland	☑ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☐ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☑ Other: High school

Habitat Types Present (percent cover):

Forest: 20 Shrub/Old Field: 5 Grass/Forb: 30 Cultivated:

Pasture: Wetland: 45 Open Water: Other:

Topography: Flat

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

	☐ Wet Meadow	☐ Shallow marsh	☐ Deep marsh
☑ Shrub swamp	☐ Bog	☑ Forested wetland	☐ Atlantic white cedar
☐ Prime wetland	☐ Vernal pool		

Description of wetlands: Forested wetland with mostly pole-sized trees drains into culvert on western boundary.

Dominant Upland Forest (percent):

Early successional: 20 Northern hardwood: Red maple: Hemlock:

Oak/pine: 30 White pine: 50 Other:

Description of forest: Small forested area between ballfield and residential homes off of Jones Ave.

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 20 Mature: 80 Old growth:

Logging evidence: 20+ years ago Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: Moderate

Highest Ranked Habitat:

☑ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)

☑ Wetland Connectivity

☑ Upland Connectivity

Wildlife Observations

Grackle; green frog; beaver

Habitat Degradation

% of Buffer with Encroachment: 60

☑ Invasive Specie (List): purple loosestrife

☑ Activities adversely affecting wildlife function?

☑ Significant Disturbance?

☑ Structures obstructing wildlife movement?

☑ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☑ Walking/Biking Trails

☑ Passive Recreation

☐ Tidal Access

☑ Potential Ballfield

☐ Existing Conservation Land

Restoration/Property Potential

Description: Outlet structure could be modified to improve drainage.

Recommendations to improve access or overall potential:

Development Potential

Description: No.

Describe Recreational Access:

Plenty of parking on high school property.

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☑ Upstream sources of pollution

☑ Erosion/sedimentation observed

☑ Stabilization needed

☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land

☐ Underlying Aquifers and Transmissivity

☐ Sand & Gravel Deposits

Soils:

BMP type? Treatment swale; outlet pipe along western boundary obstructed. Runoff from school driveway parking enters wetland untreated.

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: Parcel behind high school includes ballfield and a trail to Jones Ave. homes. Degraded wetlands.

PULA ID: 70

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 71 Acres: 3.61 Date Visited: 01-Sep-09

Tax Map/Lot #: 0222-0073-0000 Group ID: I Scientist: Mark West

Address: Jones Ave.

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: No parking except road shoulder. Access adjacent to 2 house lots.

Existing Structures on Site: ☐ Historical features Possibly part of house in NW corner.

Adjacent Land Uses (check all that apply):

☑ Forest ☐ Shrubland ☐ Grassland ☑ Residential
☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial
☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: 20 Shrub/Old Field: Grass/Forb: Cultivated:
Pasture: Wetland: 80 Open Water: Other:

Topography: Slopes south and east.

Streams:

☐ Ephemeral ☑ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☑ Shallow marsh ☑ Deep marsh
☑ Shrub swamp ☐ Bog ☑ Forested wetland ☐ Atlantic white cedar
☐ Prime wetland ☐ Vernal pool

Description of wetlands:

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:
Oak/pine: White pine: 100 Other:

Description of forest: Mature white pine stand.

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 10 Mature: 90 Old growth:

Logging evidence: 20+ years ago Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification: High
Highest Ranked Habitat:
☑ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: Deep and shallow marsh habitat for spotted and/or Blandings turtle.

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Habitat Degradation

% of Buffer with Encroachment: 40
☑ Invasive Specie (List): purple loosestrife
☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☑ Dumping?
☐ ATV Activity?

Wildlife Observations

American robin; song sparrow; chipmunk; bull frog

Recreational Value/Potential

☐ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☐ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description:

Describe Recreational Access:

Limited access off of Jones Ave. through house lots.

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☑ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: Include high value wetland with encroachment by two house lots next to road frontage along western boundary.

PULA ID: 71

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 72 Acres: 7.36 Date Visited: 01-Sep-09

Tax Map/Lot #: 0228-0007-0000 Group ID: I Scientist: Mark West

Address: Jones Avenue/ Portsmouth High School

Nearest Road: Adjacent to site Distance from Road (ft): 20 ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Parking at high school and small lot on site.

Existing Structures on Site: ☐ Historical features Ropes course, tennis courts

Adjacent Land Uses (check all that apply):

☑ Forest ☑ Shrubland ☐ Grassland ☑ Residential

☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☑ Other: High school

Habitat Types Present (percent cover):

Forest: 20 Shrub/Old Field: 5 Grass/Forb: Cultivated:

Pasture: Wetland: 60 Open Water: Other: 15 Tennis courts

Topography: Land slopes south and west

Streams:

☐ Ephemeral ☑ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☑ Shrub swamp ☐ Bog ☑ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands: Marginal forested wetland with lots of pole sized trees.

Dominant Upland Forest (percent):

Early successional: Northern hardwood: 20 Red maple: Hemlock:

Oak/pine: White pine: 80 Other:

Description of forest: Pine forest along southern boundary adjacent to PULA parcel 73.

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 30 Mature: 70 Old growth:

Logging evidence: 10-20 years ag Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: High

Highest Ranked Habitat:

☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)

☑ Wetland Connectivity

☑ Upland Connectivity

Wildlife Observations

Wood thrush; catbird; starling

Habitat Degradation

% of Buffer with Encroachment: 50

☑ Invasive Specie (List): glossy buckthorn, multiflora rose, honeysuckle

☑ Activities adversely affecting wildlife function?

☑ Significant Disturbance?

☑ Structures obstructing wildlife movement?

☑ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☑ Walking/Biking Trails

☑ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☑ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description:

Describe Recreational Access:

Parking lot for tennis courts provides good access. Trails are mostly on adjacent PULA parcel 73.

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☐ Upstream sources of pollution

☐ Erosion/sedimentation observed

☐ Stabilization needed

☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land

☐ Underlying Aquifers and Transmissivity

☐ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: Parcel is mostly wetland but could provide trail connections to PULA parcel 73.

PULA ID: 72

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 73 Acres: 66.38 Date Visited: 01-Sep-09

Tax Map/Lot #: 0228-0001-0000 Group ID: I Scientist: Mark West

Address: Jones Ave., Incinerator Rd.

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Locked gate at Jones Ave. Accessible through trails off Jones Ave. and High School.

Existing Structures on Site: ☐ Historical features Building near old dump.

Adjacent Land Uses (check all that apply):

☑ Forest	☐ Shrubland	☐ Grassland	☑ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☐ Industrial/Commercial
☐ Cropland	☑ Tidal Wetland	☐ Abandoned/Disturbed	☑ Other: High school

Habitat Types Present (percent cover):

Forest: 60 Shrub/Old Field: 5 Grass/Forb: 20 Cultivated:

Pasture: Wetland: 15 Open Water: Other:

Topography: Slopes north, west, and south. On hill.

Streams:

☐ Ephemeral ☑ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☑ Estuary

Wetlands:

☐ Wet Meadow	☐ Shallow marsh	☐ Deep marsh	
☐ Shrub swamp	☐ Bog	☑ Forested wetland	☐ Atlantic white cedar
☑ Prime wetland	☑ Vernal pool		

Description of wetlands: Sagamore Creek marsh and vernal pool complex make this an important wetland site.

Dominant Upland Forest (percent):

Early successional: 10 Northern hardwood: 40 Red maple: Hemlock:

Oak/pine: White pine: 50 Other:

Description of forest: Some large speciman trees on site. Potential for management.

Forest Age Class (percent):

Regeneration-seedling: 10 Sapling-pole: 20 Mature: 60 Old growth: 10

Logging evidence: 20+ years ago Type of cut:

☑ NH Natural Heritage Data?

☑ Rare Plant Community High salt marsh; saline-brackish channel/bay bottom; saline-brackish intertidal flat; tidal creek bottom; Salicornica bigelovii

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features

Specific Habitat Features/ Type: Common tern feeding habitat, potential saltmarsh sharptailed sparrow habitat. Tidal marsh feeding areas.

Vertical Stratification: High

Highest Ranked Habitat: State

☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Great blue heron; chipmunk; snowy egret; crow; greater yellow legs; wood frog; spotted salamander; gray squirrel; raccoon tracks; coyote scat

Habitat Degradation

% of Buffer with Encroachment: 5

☑ Invasive Specie (List): phragmites, Japanese knotweed, Asian bittersweet

☐ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☐ Dumping?
☑ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☑ Fishing Available
☑ Hunting Permitted
☑ Walking/Biking Trails
☑ Passive Recreation
☑ Tidal Access
☑ Potential Ballfield
☑ Existing Conservation Land

Restoration/Property Potential

Description: Invasive species control

Recommendations to improve access or overall potential:

Development Potential

Description:

Describe Recreational Access:

Road shoulder parking on Jones Ave. at gate entrance could be improved.

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☑ Homeless Activity Several tent and structures built on western boundary of old landfill against existing fence.
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: This large diverse site has significant passive recreation potential and also could be considered for alternative energy based on height and open water to south and west.

PULA ID: 73

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 74 Acres: 0.39 Date Visited: 01-Oct-09

Tax Map/Lot #: 0225-0008-0000 Group ID: Scientist: Mark West

Address: Elwyn Road

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Between two houses on north side of Elwyn Road. No parking on road.

Existing Structures on Site: ☐ Historical features Drainage outfall

Adjacent Land Uses (check all that apply):

☐ Forest ☐ Shrubland ☐ Grassland ☑ Residential

☐ Pasture ☑ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: 5 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 95 Open Water: Other:

Topography: Slopes north

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☑ Shallow marsh ☐ Deep marsh

☑ Shrub swamp ☐ Bog ☑ Forested wetland ☐ Atlantic white cedar

☑ Prime wetland ☐ Vernal pool

Description of wetlands:

Dominant Upland Forest (percent):

Early successional: Northern hardwood: 50 Red maple: 50 Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: 100 Old growth:

Logging evidence: 20+ years ago Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☐ Critical Features

Specific Habitat Features/ Type: Deep and shallow marsh habitat for spotted turtle.

Vertical Stratification: Moderate

Highest Ranked Habitat: Biological Region

☑ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☐ Upland Connectivity

Wildlife Observations

Song sparrow

Habitat Degradation

% of Buffer with Encroachment: 50

☑ Invasive Specie (List): phragmites

☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☐ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☐ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☐ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☐ Existing Conservation Land

Restoration/Property Potential

Description: Evaluate stormwater outfall

Recommendations to improve access or overall potential:

Development Potential

Description:

Describe Recreational Access:

No parking.

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☑ Upstream sources of pollution
☑ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

BMP type? Possible outfall treatment

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: Small site, mostly wetland. Stormwater potential. Existing conservation land.

PULA ID: 74

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 75 Acres: 11.04 Date Visited: 01-Sep-09

Tax Map/Lot #: 0223-0025-000B Group ID: Scientist: Mark West

Address: Sagamore Ave.

Nearest Road: On-site Distance from Road (ft): ☑ Boundary ID present

Type of Road: 2-lane paved

Access Description: Parking behind Seacoast Mental Health

Existing Structures on Site: ☐ Historical features Dock

Adjacent Land Uses (check all that apply):

☑ Forest	☐ Shrubland	☐ Grassland	☑ Residential
☐ Pasture	☐ Freshwater Wetland	☐ Open Water	☑ Industrial/Commercial
☐ Cropland	☑ Tidal Wetland	☐ Abandoned/Disturbed	☐ Other:

Habitat Types Present (percent cover):

Forest: 90 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 20 Open Water: Other:

Topography: Hill slopes north and south mostly.

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☑ Estuary

Wetlands:

	☐ Wet Meadow	☐ Shallow marsh	☐ Deep marsh
☐ Shrub swamp	☐ Bog	☑ Forested wetland	☐ Atlantic white cedar
☑ Prime wetland	☐ Vernal pool		

Description of wetlands: Small freshwater drainage along southern boundary drains into marsh.

Dominant Upland Forest (percent):

Early successional: Northern hardwood: 60 Red maple: Hemlock:

Oak/pine: White pine: 40 Other:

Description of forest: Nice mature forested peninsula adjacent to Sagamore Creek.

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 10 Mature: 70 Old growth: 20

Logging evidence: 20+ years ago Type of cut:

☑ NH Natural Heritage Data?

☐ Rare Plant Community High salt marsh

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☑ Critical Features
Vertical Stratification:
Highest Ranked Habitat: State
☐ Proximity to Beaver/Mink/Otter

Specific Habitat Features/ Type: High salt marsh. Feeding areas for common tern.

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Greater yellow legs; sandpiper; great blue heron; chipmunk; nuthatch

Habitat Degradation

% of Buffer with Encroachment: 20

☑ Invasive Specie (List): Asian bittersweet

☐ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☐ Structures obstructing wildlife movement?
☑ Dumping?
☑ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☑ Watercraft Access
☑ Fishing Available
☐ Hunting Permitted
☑ Walking/Biking Trails
☑ Passive Recreation
☑ Tidal Access
☐ Potential Ballfield
☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Invasive species management. Clean up.

Development Potential

Description:

Describe Recreational Access:

Access from parking lot behind Seacoast Mental Health and includes trail head signage.

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☑ Upstream sources of pollution
☑ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

BMP type?

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: Clean up needed in southeast corner of site. Excellent passive recreation site.

PULA ID: 75

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 76 Acres: 16.44 Date Visited: 01-Aug-09

Tax Map/Lot #: 0201-0026-0000 Group ID: Scientist: Mark West

Address: Sagamore Ave. and Wentworth House Road

Nearest Road: Adjacent to site Distance from Road (ft): ☑ Boundary ID present

Type of Road: 2-lane paved

Access Description: Limited roadside parking on Sagamore Ave. and Wenworth House Road

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☑ Forest	☐ Shrubland	☐ Grassland	☑ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☑ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☐ Other:

Habitat Types Present (percent cover):

Forest: 70 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 23 Open Water: 7 Other:

Topography: Rolling with ledge outcrops sloping east.

Streams:

☐ Ephemeral ☑ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☑ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow	☐ Shallow marsh	☐ Deep marsh	
☐ Shrub swamp	☐ Bog	☑ Forested wetland	☐ Atlantic white cedar
☐ Prime wetland	☐ Vernal pool		

Description of wetlands: Thick forested wetland along southern and eastern boundary with fingers connecting pond to wetlands.

Dominant Upland Forest (percent):

Early successional: Northern hardwood: 70 Red maple: Hemlock:

Oak/pine: 30 White pine: Other:

Description of forest: Red and black oak. White pine dominant.

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: 60 Old growth: 40

Logging evidence: 20+ years ago Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: High

Highest Ranked Habitat:

☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)

☑ Wetland Connectivity

☑ Upland Connectivity

Wildlife Observations

White-tailed deer scat; wood thrush; green frog in pond; hairy woodpecker

Habitat Degradation

% of Buffer with Encroachment: 25

☑ Invasive Specie (List): phragmites, knotweed

☑ Activities adversely affecting wildlife function?

☐ Significant Disturbance?

☐ Structures obstructing wildlife movement?

☐ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☐ Walking/Biking Trails

☐ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Room to enhance parking and access

Development Potential

Description:

Describe Recreational Access:

Shoulder parking only

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☑ Upstream sources of pollution

☑ Erosion/sedimentation observed

☐ Stabilization needed

☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land

☐ Underlying Aquifers and Transmissivity

☐ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: Nice upland forest habitat. Pond could be used for education and skating. Wetland high value. Potential disc golf course.

PULA ID: 76

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 77 | Acres: 23.70 | Date Visited: 01-Sep-09

Tax Map/Lot #: 0204-0007-0000 | Group ID: | Scientist: Mark West

Address: Little Harbor Road

Nearest Road: Adjacent to site | Distance from Road (ft): | ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: There is a parking lot at the church and access from the eastern end of the circle driveway. Room for parking expansion.

Existing Structures on Site: ☑ Historical features — Old foundation on eastern point

Adjacent Land Uses (check all that apply):

☑ Forest	☐ Shrubland	☐ Grassland	☐ Residential
☐ Pasture	☐ Freshwater Wetland	☐ Open Water	☐ Industrial/Commercial
☐ Cropland	☑ Tidal Wetland	☐ Abandoned/Disturbed	☐ Other:

Habitat Types Present (percent cover):

Forest:	80	Shrub/Old Field:	5	Grass/Forb:		Cultivated:	
Pasture:		Wetland:	15	Open Water:		Other:	

Topography: Slopes north to the salt marsh.

Streams:

☐ Ephemeral ☑ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☑ Estuary

Wetlands:

☐ Wet Meadow	☐ Shallow marsh	☐ Deep marsh	
☐ Shrub swamp	☐ Bog	☐ Forested wetland	☐ Atlantic white cedar
☐ Prime wetland	☑ Vernal pool		

Description of wetlands: High salt marsh present along northern boundary.

Dominant Upland Forest (percent):

Early successional:	5	Northern hardwood:	10	Red maple:	20	Hemlock:	
Oak/pine:		White pine:	65	Other:			

Description of forest: Good sized white pine

Forest Age Class (percent):

Regeneration-seedling:	10	Sapling-pole:	10	Mature:	80	Old growth:	

Logging evidence: 20+ years ago | Type of cut:

☑ NH Natural Heritage Data?

☑ Rare Plant Community — Marsh elder (Iva frutescens); high salt marsh

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☑ Critical Habitat
☐ Critical Features

Specific Habitat Features/ Type: High salt marsh

Vertical Stratification: Moderate

Highest Ranked Habitat: State

☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

Habitat Degradation

% of Buffer with Encroachment:

☑ Invasive Specie (List): bittersweet

☐ Activities adversely affecting wildlife function?
☐ Significant Disturbance?
☐ Structures obstructing wildlife movement?
☐ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☑ Watercraft Access
☑ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☑ Passive Recreation
☑ Tidal Access
☐ Potential Ballfield
☑ Existing Conservation Land

Describe Recreational Access:

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Bittersweet control

Development Potential

Description: No

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

BMP type?

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: This site is an excellent candidate for walking trails, for passive recreation, birding,etc.

PULA ID: 77

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 78 Acres: 0.41 Date Visited: 14-Sep-09

Tax Map/Lot #: 0163-0037-0000 Group ID: Scientist: Earle Chase

Address: Cate Road

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: This parcel abuts Cate Road. Route 1 (Lafayette Rd) is just to the west

Existing Structures on Site: ☐ Historical features Fence on western perimeter agains commercial parking area

Adjacent Land Uses (check all that apply):

☐ Forest ☐ Shrubland ☐ Grassland ☑ Residential

☐ Pasture ☐ Freshwater Wetland ☐ Open Water ☑ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: 66 Shrub/Old Field: Grass/Forb: 34 Cultivated:

Pasture: Wetland: Open Water: Other:

Topography: Flat, elevated from adjacent commercial trucking center.

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands: ☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☐ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands:

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other: 100 Black locust, sugar maple, white ash, red

Description of forest: This small forested parcel is squeezed between Cate Road and a commercial trucking center.

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 100 Mature: Old growth:

Logging evidence: 20+ years ago Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: Low

Highest Ranked Habitat:

☐ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)

☐ Wetland Connectivity

☐ Upland Connectivity

Wildlife Observations

Hairy woodpecker gleaning fallen tree, potential denning site

Habitat Degradation

% of Buffer with Encroachment: 100

☑ Invasive Specie (List): T. honeysuckle, buckthorn

☑ Activities adversely affecting wildlife function?

☑ Significant Disturbance?

☑ Structures obstructing wildlife movement?

☑ Dumping?

☐ ATV Activity?

Dumping: soil stockpile

Recreational Value/Potential

☑ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☐ Walking/Biking Trails

☑ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☐ Existing Conservation Land

Restoration/Property Potential

Description: There is potential to clean up trash and truck components

Recommendations to improve access or overall potential:

Development Potential

Description: Yes-either by adjacent commercial owner or nearby residence; however, parcel is very small.

Describe Recreational Access:

Adjacent to Cate Road.

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☐ Upstream sources of pollution

☐ Erosion/sedimentation observed

☐ Stabilization needed

☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land

☐ Underlying Aquifers and Transmissivity

☐ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☑ Homeless Activity Abandoned sleeping gear

☑ Safety Hazard Broken glass

☑ Hazardous Waste Possible The adjacent property owner appears to be parking trailer components on or very close

Comments:

PULA ID: 78

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 79 Acres: 0.23 Date Visited: 01-Sep-09

Tax Map/Lot #: 0103-0028-0000 Group ID: Scientist: Mark West

Address: Mechanic Street

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: On-street parking

Existing Structures on Site: ☐ Historical features Sewer pump station

Adjacent Land Uses (check all that apply):

☐ Forest ☐ Shrubland ☐ Grassland ☑ Residential

☐ Pasture ☐ Freshwater Wetland ☐ Open Water ☑ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☑ Other: Park

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: 50 Cultivated:

Pasture: Wetland: Open Water: Other: 50 park

Topography: Flat with slope next to road/bridge.

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☑ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☐ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands:

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other: 100 parklike

Description of forest: Lawn with planted trees, benches.

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: Low

Highest Ranked Habitat:

☐ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)

☐ Wetland Connectivity

☐ Upland Connectivity

Wildlife Observations

Pigeon

Habitat Degradation

% of Buffer with Encroachment: 100

☐ Invasive Specie (List):

☑ Activities adversely affecting wildlife function?

☑ Significant Disturbance?

☑ Structures obstructing wildlife movement?

☐ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available

☐ Watercraft Access

☑ Fishing Available

☐ Hunting Permitted

☑ Walking/Biking Trails

☑ Passive Recreation

☑ Tidal Access

☐ Potential Ballfield

☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description:

Describe Recreational Access:

Roadside parking next to site.

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☑ Upstream sources of pollution

☐ Erosion/sedimentation observed

☐ Stabilization needed

☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land

☐ Underlying Aquifers and Transmissivity

☐ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: Small park area near Pierce Island Bridge.

PULA ID: 79

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 80 Acres: 0.57 Date Visited: 01-Sep-09

Tax Map/Lot #: 0143-0020-0000 Group ID: Scientist: Earle Chase

Address: Monteith Street (off Thornton Street)

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Monteith Street off Thornton Street

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☐ Forest ☐ Shrubland ☐ Grassland ☑ Residential

☐ Pasture ☐ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: 50 Shrub/Old Field: 50 Grass/Forb: Cultivated:

Pasture: Wetland: Open Water: Other:

Topography: Flat

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☐ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands:

Dominant Upland Forest (percent):

Early successional: 50 Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other: 50 Black cherry, Norway maple

Description of forest: This upland consists of a mixed-early successional forest with a heavy infestation of invasive species.

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 50 Mature: 50 Old growth:

Logging evidence: 20+ years ago Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat
☐ Critical Features
Specific Habitat Features/ Type:

Vertical Stratification: Moderate
Highest Ranked Habitat:
☐ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)
☐ Wetland Connectivity
☐ Upland Connectivity

Wildlife Observations

Songbird (spp.)

Habitat Degradation

% of Buffer with Encroachment: 100

☑ Invasive Specie (List): buckthorn, multiflora rose
☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☑ Dumping?
☐ ATV Activity?

Dumping: stockpile of soil

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☐ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Potential to remove invasive species from parcel, possibility to establish demonstration/research plot.

Development Potential

Description: Yes.

Describe Recreational Access:

Adjacent Monteith Street (off Thornton Street)

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☐ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: Songbird (spp.) were observed. Observer believes that these small parcels contribute to important niches for wildlife. In this particular case, several songbirds were seen feeding on buckthorn berries. This parcel may also provide additional buffering to an adjacent high quality habitat.

PULA ID: 80

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 81 Acres: 0.47 Date Visited: 01-Sep-09

Tax Map/Lot #: 0143-0008-0000 Group ID: Scientist: Earle Chase

Address: Mill Pond Way

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description:

Existing Structures on Site: ☐ Historical features Overhead powerline

Adjacent Land Uses (check all that apply):

☐ Forest ☐ Shrubland ☐ Grassland ☑ Residential

☐ Pasture ☐ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: 100 Cultivated:

Pasture: Wetland: Open Water: Other:

Topography: Flat.

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☑ Estuary

Wetlands: ☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☐ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands:

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other: 100 Lawn area with scattered ash trees

Description of forest: Scattered planted trees.

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 100 Mature: Old growth:

Logging evidence: 20+ years ago Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat
☐ Critical Features
Specific Habitat Features/ Type: High ranked habitat is in very close proximity
Vertical Stratification: Low
Highest Ranked Habitat:
☐ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)
☐ Wetland Connectivity
☐ Upland Connectivity

Wildlife Observations

Great blue heron on adjacent body of water

Habitat Degradation

% of Buffer with Encroachment: 50
☑ Invasive Specie (List): Buckthorn, autumn olive, multiflora rose
☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☑ Dumping? Dumping of pavement debris at edge of water
☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☑ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☑ Passive Recreation
☑ Tidal Access
☐ Potential Ballfield
☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Potential to develop parcel as a park with benches--setting is aesthetically pleasing and peaceful

Development Potential

Description: Yes - a prime/high valued house lot is present

Describe Recreational Access:

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo
☑ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

BMP type? Improvement possibly needed. A stormwater drain was observed - it is unclear where the flowage drains.

Potential Property Liabilities:

☐ Homeless Activity
☑ Safety Hazard Low overhead wires
☐ Hazardous Waste Possible

Comments: See above restoration potential. Preserve open space when possible. It appears an earlier restoration could have occurred - shrub plantings and yellow markers were noted.

PULA ID: 81

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 82 Acres: 0.33 Date Visited: 31-Aug-09

Tax Map/Lot #: 0220-0080-0000 Group ID: Scientist: Earle Chase

Address: Edmond Ave (off Woodbury Ave.)

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Via Edmond Ave.

Existing Structures on Site: ☐ Historical features Overhead powerline

Adjacent Land Uses (check all that apply):

☐ Forest ☐ Shrubland ☐ Grassland ☑ Residential

☐ Pasture ☐ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☑ Other: Abuts I-95

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: 75 Grass/Forb: Cultivated:

Pasture: Wetland: 25 Open Water: Other:

Topography: Flat

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☑ Shrub swamp ☐ Bog ☐ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands:

Dominant Upland Forest (percent):

Early successional: 80 Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other: 20

Description of forest: This is early successional with scrub-like growth (a high % of staghorn sumac with a mixture of invasives).

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 100 Mature: Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat
☐ Critical Features
Specific Habitat Features/ Type: Any value nullified by presence of invasive species.

Vertical Stratification: Moderate
Highest Ranked Habitat:
☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☐ Upland Connectivity

Wildlife Observations

Songbird (spp.) - sparrow family; wildlife trail from Edmond Ave. into wetland observed

Habitat Degradation

% of Buffer with Encroachment: 75

☑ Invasive Specie (List): buckthorn, autumn olive, multiflora rose

☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☐ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☐ Existing Conservation Land

Describe Recreational Access:

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description: No-This parcel has marginal public utility due to its very small size and its position between I-95 and Edmond Ave.

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☑ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

BMP type?

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

Potential Property Liabilities:

☐ Homeless Activity
☑ Safety Hazard Nearby road
☐ Hazardous Waste Possible

Comments: A small mammal trail was observed again emphasizing usage by resident wildlife species and how small parcels may be providing refuge to urban wildlife.

PULA ID: 82

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 83 Acres: 0.62 Date Visited: 31-Aug-09

Tax Map/Lot #: 0220-0079-0000 Group ID: Scientist: Earle Chase

Address: Edmond Ave (off Woodbury Ave)

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Via Edmond Ave, a powerline passes overhead

Existing Structures on Site: ☐ Historical features overhead powerlines

Adjacent Land Uses (check all that apply):

☐ Forest ☐ Shrubland ☐ Grassland ☑ Residential

☐ Pasture ☐ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☑ Other: Edmund Ave and I-95

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: 75 Grass/Forb: Cultivated:

Pasture: Wetland: 25 Open Water: Other:

Topography: flat

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☑ Shrub swamp ☐ Bog ☐ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands: This is a scrub-shrub wetland situated between Edmund Ave and Interstate 95

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat
☐ Critical Features

Specific Habitat Features/ Type: no- any value nullified by parcels position between Edmund Ave and Interstate 95

Vertical Stratification: Moderate

Highest Ranked Habitat:

☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

songbird and adjacent small mammal trail

Habitat Degradation

% of Buffer with Encroachment: 100

☑ Invasive Specie (List): buckthorn and autumn olive

☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☐ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☐ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☐ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☐ Existing Conservation Land

Restoration/Property Potential

Description: This parcel has marginal utility due to its very small size and its position between I-95 and Edmund Ave.

Recommendations to improve access or overall potential:

Development Potential

Description: no

Describe Recreational Access:

Adjacent to Portsmouth-owned properties #82 & 84

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☑ Upstream sources of pollution
☐ Erosion/sedimentation observed
☐ Stabilization needed
☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments:

PULA ID: 83

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 84 Acres: 1.40 Date Visited: 31-Aug-09

Tax Map/Lot #: 0220-0055-0000 Group ID: Scientist: Earle Chase

Address: Edmund Ave (off Woodbury Ave)

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Adjacent to Edmund Ave

Existing Structures on Site: ☐ Historical features overhead powerlines, fire hydrant

Adjacent Land Uses (check all that apply):

☐ Forest ☐ Shrubland ☐ Grassland ☑ Residential

☐ Pasture ☐ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☑ Other: road

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 100 Open Water: Other:

Topography:

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☑ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands: ☐ Wet Meadow ☑ Shallow marsh ☑ Deep marsh

☐ Shrub swamp ☐ Bog ☐ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands: open water components with associated broad-leaved cattailed vegetation

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: Low

Highest Ranked Habitat:

☐ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)

☑ Wetland Connectivity

☐ Upland Connectivity

Wildlife Observations

tree swallow

Habitat Degradation

% of Buffer with Encroachment:

☑ Invasive Specie (List): purple loosestrife in wetlands, Japanese knotweed on road embankement

☑ Activities adversely affecting wildlife function?

☑ Significant Disturbance?

☑ Structures obstructing wildlife movement?

☐ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☐ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☐ Walking/Biking Trails

☑ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description:

Describe Recreational Access:

100% wet- adjacent two other parcels owned by the city (82,83)

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☑ Upstream sources of pollution

☐ Erosion/sedimentation observed

☐ Stabilization needed

☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☑ Adjacent Conservation Land

☐ Underlying Aquifers and Transmissivity

☐ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: This small parcel is a good example of niche habitiat in an urban setting.

PULA ID: 84

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 85 Acres: 5.16 Date Visited: 01-Aug-09

Tax Map/Lot #: 0238-0010-0001 Group ID: Scientist: Mark west

Address: Arthur F Brady Drive

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description:

Existing Structures on Site: ☐ Historical features

Adjacent Land Uses (check all that apply):

☐ Forest	☑ Shrubland	☑ Grassland	☑ Residential
☐ Pasture	☑ Freshwater Wetland	☐ Open Water	☑ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☑ Abandoned/Disturbed	☐ Other:

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: Open Water: Other:

Topography: relatively flat

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

	☐ Wet Meadow	☑ Shallow marsh	☐ Deep marsh
☑ Shrub swamp	☐ Bog	☑ Forested wetland	☐ Atlantic white cedar
☐ Prime wetland	☐ Vernal pool		

Description of wetlands: mostly shallow marsh with edges of scrub shrub and red maple swamp

Dominant Upland Forest (percent):

Early successional: 100 Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other:

Description of forest: mostly sapling pole size trees. Area appears to be previously disturbed with surface rubble

Forest Age Class (percent):

Regeneration-seedling: 50 Sapling-pole: 50 Mature: Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: Moderate

Highest Ranked Habitat:

☐ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)

☑ Wetland Connectivity

☑ Upland Connectivity

Wildlife Observations

catbird and mourning dove

Habitat Degradation

% of Buffer with Encroachment: 40

☑ Invasive Specie (List): purple loosestrife and phragmites

☑ Activities adversely affecting wildlife function?

☑ Significant Disturbance?

☑ Structures obstructing wildlife movement?

☑ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☐ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☑ Walking/Biking Trails

☐ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: yes- fill piles along Northern Wetland boundary clean up needed

Development Potential

Description: limited

Describe Recreational Access:

road shoulder parking only

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☑ Upstream sources of pollution

☑ Erosion/sedimentation observed

☑ Stabilization needed

☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land

☐ Underlying Aquifers and Transmissivity

☐ Sand & Gravel Deposits

Soils:

BMP type? treatment swale or other device. Now the point source discharge from Arthur Brady Drive in Northeast corner of the site.

Potential Property Liabilities:

☑ Homeless Activity previously used campsites / trash

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: This site has extensive trash/old campsites with a small trail network. Stormwater management is recommended. Invasive species control possible. Unique grassland area south of site.

PULA ID: 85

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 86 Acres: 0.15 Date Visited: 01-Aug-09

Tax Map/Lot #: 0216-0002-0000 Group ID: Scientist: Mark West

Address: Woodbury Ave

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 4-lane paved

Access Description: Parking in the Market Basket shopping plaza off Woodbury Ave

Existing Structures on Site: ☐ Historical features stormwater and sewer piping

Adjacent Land Uses (check all that apply):

☐ Forest ☐ Shrubland ☑ Grassland ☑ Residential

☐ Pasture ☐ Freshwater Wetland ☐ Open Water ☑ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other: parking lot

Habitat Types Present (percent cover):

Forest: Shrub/Old Field: Grass/Forb: 100 Cultivated:

Pasture: Wetland: Open Water: Other:

Topography: slopes Northwest

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands: ☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☐ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands:

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other: 100 park like

Description of forest: grass lawn with shade trees

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: Mature: Old growth:

Logging evidence: Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: Low

Highest Ranked Habitat:

☑ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)

☐ Wetland Connectivity

☐ Upland Connectivity

Wildlife Observations

Habitat Degradation

% of Buffer with Encroachment: 100

☑ Invasive Specie (List): Norway Maples- planted

☑ Activities adversely affecting wildlife function?

☑ Significant Disturbance?

☑ Structures obstructing wildlife movement?

☐ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☐ Walking/Biking Trails

☑ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description:

Describe Recreational Access:

Large parking lot at shopping plaza

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☑ Upstream sources of pollution

☐ Erosion/sedimentation observed

☐ Stabilization needed

☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land

☐ Underlying Aquifers and Transmissivity

☐ Sand & Gravel Deposits

Soils:

BMP type? drains into grassed detention area

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: Minimal opportunities on this site basically its part of a large landscape island for shopping center.

PULA ID: 86

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 87 Acres: 5.72 Date Visited: 31-Aug-09

Tax Map/Lot #: 0218-0001-0000 Group ID: Scientist: Earle Chase

Address: Market Street property located between Kearsarge Way and Spinnaker Way

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Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 4-lane paved

Access Description: There is a parking lot adjacent recreational facility/ swimming pool/ tennis court which was used to access this parcel (off Spinnaker Way)

Existing Structures on Site: ☑ Historical features stonewall

Adjacent Land Uses (check all that apply):

☐ Forest	☐ Shrubland	☐ Grassland	☑ Residential
☐ Pasture	☐ Freshwater Wetland	☐ Open Water	☑ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☐ Other:

Habitat Types Present (percent cover):

Forest: 60 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: 40 Open Water: Other:

Topography: rolling

Streams:

☐ Ephemeral ☑ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow	☐ Shallow marsh	☐ Deep marsh	
☑ Shrub swamp	☐ Bog	☐ Forested wetland	☐ Atlantic white cedar
☐ Prime wetland	☐ Vernal pool		

Description of wetlands: shrub swamp with seafern, jewelweed, buckthorn and dogwood

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: 90 Other: 10

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 5 Mature: 95 Old growth:

Logging evidence: 20+ years ago Type of cut: Previous agricultural use

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat
☐ Critical Features
Specific Habitat Features/ Type:

Vertical Stratification: Moderate
Highest Ranked Habitat:
☐ Proximity to Beaver/Mink/Otter

Connectivity

☑ Corridor (through or adjacent)
☑ Wetland Connectivity
☑ Upland Connectivity

Wildlife Observations

tracks of fox and raccoon; several locations where a wildlife species had scratched in search of insects; trail

Habitat Degradation

% of Buffer with Encroachment:

☑ Invasive Specie (List): buckthorn, honeysuckle, Oriental Bittersweet, purpleloosestrife

☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☐ Dumping?
☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☐ Walking/Biking Trails
☑ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: potential to explore increasing stormwater measures along route 1 & adjacent parking area

Development Potential

Description: yes- location in residential neighborhood accentuates parcel's proximity

Describe Recreational Access:

off Spinnaker Way to parking lot near recreational facility

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☑ Upstream sources of pollution
☐ Erosion/sedimentation observed
☑ Stabilization needed
☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

BMP type? stormwater runoff from parking lot near recreational facility (off Spinnaker Way) & from Market Street as noted

Potential Property Liabilities:

☐ Homeless Activity
☐ Safety Hazard
☐ Hazardous Waste Possible

Comments: Again- it should be stated that small parcels that have not been developed continue to serve resident wildlife species. It was also observed at one location at an internittent stream, three individual sets of wildlife tracks. In addition, a well travelled wildlife trail was observed. It is very interesting how these species move back and forth in a urban landscape through these parcels

PULA ID: 87

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 88 Acres: 0.10 Date Visited: 21-Aug-09

Tax Map/Lot #: 0210-0017-0000 Group ID: Scientist: Earle Chase

Address: Forest Street (the end of the street is "on paper")

Nearest Road: Adjacent to site Distance from Road (ft): ☐ Boundary ID present

Type of Road:

Access Description: Market Street to Michael Succi Drive to Chase Drive to Outts Ave to Forrest St to mowed pathway

Existing Structures on Site: ☐ Historical features nearby I-95

Adjacent Land Uses (check all that apply):

☐ Forest ☐ Shrubland ☐ Grassland ☑ Residential

☐ Pasture ☐ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☑ Other: highway 95

Habitat Types Present (percent cover):

Forest: 80 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: Open Water: Other: 20 highway

Topography: rolling topography

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands: ☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☐ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands:

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other: 100 black cherry with understory of invasive

Description of forest: Black Cherry with understory of invasives

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 90 Mature: 10 Old growth:

Logging evidence: 20+ years ago Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: Low

Highest Ranked Habitat:

☐ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)

☐ Wetland Connectivity

☑ Upland Connectivity

Wildlife Observations

Habitat Degradation

% of Buffer with Encroachment:

☑ Invasive Specie (List): Buckthorn, Oriental Bittersweet, Barberry and Honeysuckle

☑ Activities adversely affecting wildlife function?

☑ Significant Disturbance?

☑ Structures obstructing wildlife movement?

☐ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☐ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☑ Walking/Biking Trails

☑ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Explore removing invasive species

Development Potential

Description:

Describe Recreational Access:

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☐ Upstream sources of pollution

☐ Erosion/sedimentation observed

☐ Stabilization needed

☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land

☐ Underlying Aquifers and Transmissivity

☐ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments:

PULA ID: 88

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 89 Acres: 0.10 Date Visited: 21-Aug-09

Tax Map/Lot #: 0210-0016-0000 Group ID: Scientist: Earle Chase

Address: Forrest Street (partially on paper, an paper street)

Nearest Road: Adjacent to site Distance from Road (ft): ☐ Boundary ID present

Type of Road:

Access Description: Market Street to Michael Succi Drive to Chase Drive to Outts Ave to Forrest St to mowed pathway

Existing Structures on Site: ☐ Historical features a powerline passes overhead or abuts edge of powerline

Adjacent Land Uses (check all that apply):

☐ Forest ☐ Shrubland ☐ Grassland ☑ Residential

☐ Pasture ☐ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial

☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☑ Other: nearby RR Tracks, adjacent to I-95

Habitat Types Present (percent cover):

Forest: 80 Shrub/Old Field: Grass/Forb: Cultivated:

Pasture: Wetland: Open Water: Other: 20 occupied by many invasi

Topography: rolling topography

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands: ☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☐ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands:

Dominant Upland Forest (percent):

Early successional: Northern hardwood: Red maple: Hemlock:

Oak/pine: White pine: Other: 100 black cherry with thick understory of inv

Description of forest:

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 90 Mature: 10 Old growth:

Logging evidence: 20+ years ago Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: Low

Highest Ranked Habitat:

☐ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)

☐ Wetland Connectivity

☐ Upland Connectivity

Wildlife Observations

Adjacent landowner states she has observed a red fox, rabbit, and white tailed deer with fawn. Explained that same doe has come back year after year.

Habitat Degradation

% of Buffer with Encroachment:

☑ Invasive Specie (List): buckthorn, oriental bittersweet, japanese barberry, and honeysuckle

☑ Activities adversely affecting wildlife function?

☑ Significant Disturbance?

☑ Structures obstructing wildlife movement?

☐ Dumping?

☑ ATV Activity?

I-95 , local roads and urban development

Recreational Value/Potential

☐ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☑ Walking/Biking Trails

☑ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: explore developing greenway or wildlife travel rout eto open space on west and northwest respectively. Also, remove invasive species.

Development Potential

Description:

Describe Recreational Access:

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☐ Upstream sources of pollution

☐ Erosion/sedimentation observed

☐ Stabilization needed

☐ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land

☐ Underlying Aquifers and Transmissivity

☐ Sand & Gravel Deposits

Soils:

BMP type?

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: If adjacent landowner statements are correct with regard to her wildlife observations, these small parcels provide small habitat niches to resident wildlife.

PULA ID: 89

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 90 Acres: 0.92 Date Visited: 21-Aug-09

Tax Map/Lot #: 0218-0019-0000 Group ID: Scientist: earle chase

Address: on unamed road off Kearsarge Way

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road:

Access Description: North on Kearsarge Way; just before RR crossing ther eis an unnamed road to the west; entry is unmarked ; after Orange Street. The parcel abuts an old road on the east . The RR tracks are situated on the North

Existing Structures on Site: ☑ Historical features stonewall

Adjacent Land Uses (check all that apply):

☑ Forest ☐ Shrubland ☐ Grassland ☑ Residential
☐ Pasture ☐ Freshwater Wetland ☐ Open Water ☐ Industrial/Commercial
☐ Cropland ☐ Tidal Wetland ☐ Abandoned/Disturbed ☐ Other:

Habitat Types Present (percent cover):

Forest: 100 Shrub/Old Field: Grass/Forb: Cultivated:
Pasture: Wetland: Open Water: Other:

Topography: rolling, rocky

Streams:

☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☐ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh
☐ Shrub swamp ☐ Bog ☐ Forested wetland ☐ Atlantic white cedar
☐ Prime wetland ☐ Vernal pool

Description of wetlands:

Dominant Upland Forest (percent):

Early successional: Northern hardwood: 100 Red maple: Hemlock:
Oak/pine: White pine: Other:

Description of forest: This forest is a mixed hardwood plant community. Three distinct age classes were evident. The invasive species are choking out the understory species

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 70 Mature: 30 Old growth:

Logging evidence: 20+ years ago Type of cut:

☐ NH Natural Heritage Data?
☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat Specific Habitat Features/ Type:

☐ Critical Features

Vertical Stratification: Moderate

Highest Ranked Habitat:

☐ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)

☐ Wetland Connectivity

☑ Upland Connectivity

Wildlife Observations

observed a few wildlife dens, possibly a red fox

Habitat Degradation

% of Buffer with Encroachment: 50

☑ Invasive Specie (List): Autumn Olive, Buckthorn, Oriental Bittersweet, Multiflora Rose, Purple loosestrife, Japanese

☑ Activities adversely affecting wildlife function?

☑ Significant Disturbance?

☑ Structures obstructing wildlife movement?

☑ Dumping?

☐ ATV Activity?

Recreational Value/Potential

☑ Parking Available

☐ Watercraft Access

☐ Fishing Available

☐ Hunting Permitted

☑ Walking/Biking Trails

☑ Passive Recreation

☐ Tidal Access

☐ Potential Ballfield

☐ Existing Conservation Land

Describe Recreational Access:

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential:

Development Potential

Description:

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☐ Upstream sources of pollution

☐ Erosion/sedimentation observed

☐ Stabilization needed

☐ BMP or BMP modification needed

BMP type?

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land

☐ Underlying Aquifers and Transmissivity

☐ Sand & Gravel Deposits

Soils:

Potential Property Liabilities:

☐ Homeless Activity

☐ Safety Hazard

☐ Hazardous Waste Possible

Comments: Observation of a wildlife den empahsizes importance of small open spaces to urban wildlife species.

PULA ID: 90

PULA RESOURCE INVENTORY DATA SHEET

PULA ID: 91 Acres: 6.35 Date Visited: 21-Aug-09

Tax Map/Lot #: 0212-0166-0000 Group ID: Scientist: Earle Chase

Address: Hislop Field (opposite Concord Way) adjacent to Preble Way

---

Nearest Road: On-site Distance from Road (ft): ☐ Boundary ID present

Type of Road: 2-lane paved

Access Description: Hislop Field is located adjacent a residential neighborhood (Atlantic Heights Development)- this City Park is opposite Concord Way

Existing Structures on Site: ☐ Historical features a fence encircles the property, baseball field & associated dugout

Adjacent Land Uses (check all that apply):

☐ Forest	☐ Shrubland	☐ Grassland	☑ Residential
☐ Pasture	☐ Freshwater Wetland	☐ Open Water	☑ Industrial/Commercial
☐ Cropland	☐ Tidal Wetland	☐ Abandoned/Disturbed	☑ Other: I-95

Habitat Types Present (percent cover):

Forest: 75 Shrub/Old Field: Grass/Forb: 25 Cultivated:

Pasture: Wetland: Open Water: Other:

Topography: the baseball field is flat; land slopes

Streams:

☑ Ephemeral ☐ Intermittent ☐ Perennial ☑ River ☐ Presence of fish

Water bodies:

☐ Small pond ☐ Beaver flowage ☐ Clamming/oyster beds ☑ Estuary

Wetlands:

☐ Wet Meadow ☐ Shallow marsh ☐ Deep marsh

☐ Shrub swamp ☐ Bog ☐ Forested wetland ☐ Atlantic white cedar

☐ Prime wetland ☐ Vernal pool

Description of wetlands: This parcel is adjacent the Piscataqua River

Dominant Upland Forest (percent):

Early successional: Northern hardwood: 90 Red maple: Hemlock:

Oak/pine: White pine: 10 Other:

Description of forest: This is a Northern Hardwood- White Pine forest with adjacent baseball field. The parcel directly abuts the Piscataqua River

Forest Age Class (percent):

Regeneration-seedling: Sapling-pole: 50 Mature: 50 Old growth:

Logging evidence: 20+ years ago Type of cut:

☐ NH Natural Heritage Data?

☐ Rare Plant Community

PULA RESOURCE INVENTORY DATA SHEET

Wildlife Habitat

☐ Critical Habitat
☐ Critical Features
Specific Habitat Features/ Type: Parlike in character- trees are generally of the same height- there is no overstory or herb layer

Vertical Stratification: Low
Highest Ranked Habitat:
☐ Proximity to Beaver/Mink/Otter

Connectivity

☐ Corridor (through or adjacent)
☐ Wetland Connectivity
☐ Upland Connectivity

Wildlife Observations

American Robin, Potential to support other songbirds

Habitat Degradation

% of Buffer with Encroachment: 75

☑ Invasive Specie (List): japanese knotweed
☑ Activities adversely affecting wildlife function?
☑ Significant Disturbance?
☑ Structures obstructing wildlife movement?
☑ Dumping?
☐ ATV Activity?
trash was observed near park bench

Recreational Value/Potential

☑ Parking Available
☐ Watercraft Access
☐ Fishing Available
☐ Hunting Permitted
☑ Walking/Biking Trails
☐ Passive Recreation
☐ Tidal Access
☐ Potential Ballfield
☐ Existing Conservation Land

Restoration/Property Potential

Description:

Recommendations to improve access or overall potential: Potential to develop aesthetic view of the Piscataqua, also possibly provide access from the Piscataqua River to the park

Development Potential

Description: yes

Describe Recreational Access:

Via Concord Ave

Storm Water Data

Watershed ID (HUC12) Portsmouth Harbo

☑ Upstream sources of pollution
☑ Erosion/sedimentation observed
☑ Stabilization needed
☑ BMP or BMP modification needed

Additional Natural Resource Data Layers

☐ Adjacent Conservation Land
☐ Underlying Aquifers and Transmissivity
☐ Sand & Gravel Deposits

Soils:

BMP type? Settling Basin. An upper drainage drains into the adjacent Piscataqua. There is a high potential for increased runoff into the river from the park and nearby road

Potential Property Liabilities:

☐ Homeless Activity
☑ Safety Hazard there is a steep embankement
☐ Hazardous Waste Possible

Comments: The recreational value is high but there is opportunity to expand overall recreational usage along the Piscataqua.

PULA ID: 91

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: Mark West, West Environmental Inc
122 Mast Road Suite 6
Lee NH 03824

From: Sara Cairns, NH Natural Heritage Bureau
Date: 2009-07-23
Re: Review by NH Natural Heritage Bureau of request dated 2009-07-21

NHB File ID: 617 **Town:** Portsmouth
Project type: Landowner Request **Location:** City of Portsmouth properties (91 tracts).

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.

NHB records on the property(s):

	Mapping Precision	% within tract	Last Reported	Listing Status		Conservation Rank	
Natural Community				**Federal**	**NH**	**Global**	**State**
Atlantic white cedar - yellow birch - pepperbush swamp	Good	20	1996	--	--	-	S2
Atlantic white cedar - yellow birch - pepperbush swamp	Good	55	1993	--	--	-	S2
Atlantic white cedar - yellow birch - pepperbush swamp	Good	84	1994	--	--	-	S2
Herbaceous seepage marsh	Good	81	2002	--	--	-	S3
High salt marsh	Good	9	2006	--	--	-	S3
Low salt marsh	Good	9	2006	--	--	-	S3
Red maple - sensitive fern swamp	Good	28	2002	--	--	-	S2
Red maple - sensitive fern swamp	Good	94	1997	--	--	-	S2
Red maple - sensitive fern swamp	Good	24	1982	--	--	-	S2
Saline/brackish intertidal flat	Good	3	2006	--	--	-	S3
Saline/brackish subtidal channel/bay bottom	Good	3	1997	--	--	-	S3
Swamp white oak basin swamp	Good	96	2002	--	--	-	S1
Tidal creek bottom	Good	3	1997	--	--	-	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.

New Hampshire Natural Heritage Bureau

DRED - Division of Forests & Lands

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Plant species				Federal	NH	Global	State
Black Maple (Acer nigrum)	Good	42	1996	--	T	G5	S2
Dwarf Glasswort (Salicornia bigelovii)	Good	49	1997	--	E	G5	S1
Green Adder's Mouth (Malaxis unifolia)	Good	100	1997	--	T	G5	S2
Hairy-fruited Sedge (Carex trichocarpa)	Good	61	1989	--	E	G4	S1
Marsh Elder (Iva frutescens ssp. oraria)	Good	7	1996	--	T	T5	S2
Tufted Loosestrife (Lysimachia thyrsiflora)	Good	100	1989	--	T	G5	S2

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

	Last Reported	Listing Status		Conservation Rank	
Vertebrate species (For more information on animal species, contact Kim Tuttle, NH F&G at 271-6544)		Federal	NH	Global	State
Peregrine Falcon (*Falco peregrinus anatum*)	2007	M	T	T4	S1
Upland Sandpiper (*Bartramia longicauda*)	2002	--	E	G5	S1
Common Tern (*Sterna hirundo*)	1995	--	T	G5	S1
Purple Martin (*Progne subis*)	2003	--	SC	G5	S1B
Grasshopper Sparrow (*Ammodramus savannarum*)	2002	--	T	G5	S1B
Saltmarsh Sharp-tailed Sparrow (*Ammodramus caudacutus*)	2004	--	SC	G4	S3B
Spotted Turtle (*Clemmys guttata*)	1997	--	T	G5	S3
Blanding's Turtle (*Emydoidea blandingii*)	1997	--	E	G4	S3
Natural Community		Federal	NH	Global	State
Low salt marsh	1997	--	--	--	S3
High salt marsh	2006	--	--	--	S3
Low brackish tidal riverbank marsh	1997	--	--	--	S1
High brackish tidal riverbank marsh	1997	--	--	--	S1
Saline/brackish intertidal flat	1997	--	--	--	S3
Saline/brackish subtidal channel/bay bottom	1997	--	--	--	S3
Tidal creek bottom	1997	--	--	--	S3
Herbaceous low riverbank	1997	--	--	--	S3
Red maple - sensitive fern swamp	2006	--	--	--	S2
Tall graminoid emergent marsh	2006	--	--	--	S4
Seasonally flooded Atlantic white cedar swamp	1993	--	--	--	S2
Atlantic white cedar - yellow birch - pepperbush swamp	1994	--	--	--	S2

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.

New Hampshire Natural Heritage Bureau

DRED - Division of Forests & Lands

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Phone: (603) 271-2214 Fax: (603) 271-6488

Plant species		Federal	NH	Global	State
Marsh Elder (*Iva frutescens ssp. oraria*)	2006	--	T	T5	S2
Bulbous Bitter Cress (*Cardamine bulbosa*)	1990	--	E	G5	S1
Dwarf Glasswort (*Salicornia bigelovii*)	1997	--	E	G5	S1
Hairy Hudsonia (*Hudsonia tomentosa var. tomentosa*)	1999	--	T	T5	--
Prolific Knotweed (*Polygonum prolificum*)	1959	--	E	T4	S1
Salt-marsh Gerardia (*Agalinis maritima*)	1997	--	T	G5	S2
Small Spike-rush (*Eleocharis parvula*)	1997	--	T	G5	S2
Salt-loving Spike-rush (*Eleocharis uniglumis*)	1997	--	T	G5	S2
Loesel's Twayblade (*Liparis loeselii*)	1968	--	T	G5	S2
Beach Grass (*Ammophila breviligulata*)	2006	--	T	G5	S2
Tundra Alkali Grass (*Puccinellia tenella ssp. langeana*)	1997	--	E	T4	S1
Sand Grass (*Triplasis purpurea*)	1901	--	E	G4	S1
Horned Pondweed (*Zannichellia palustris*)	1972	--	E	G5	S1
Engelmann's Quillwort (*Isoetes engelmannii*)	1997	--	E	G4	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.

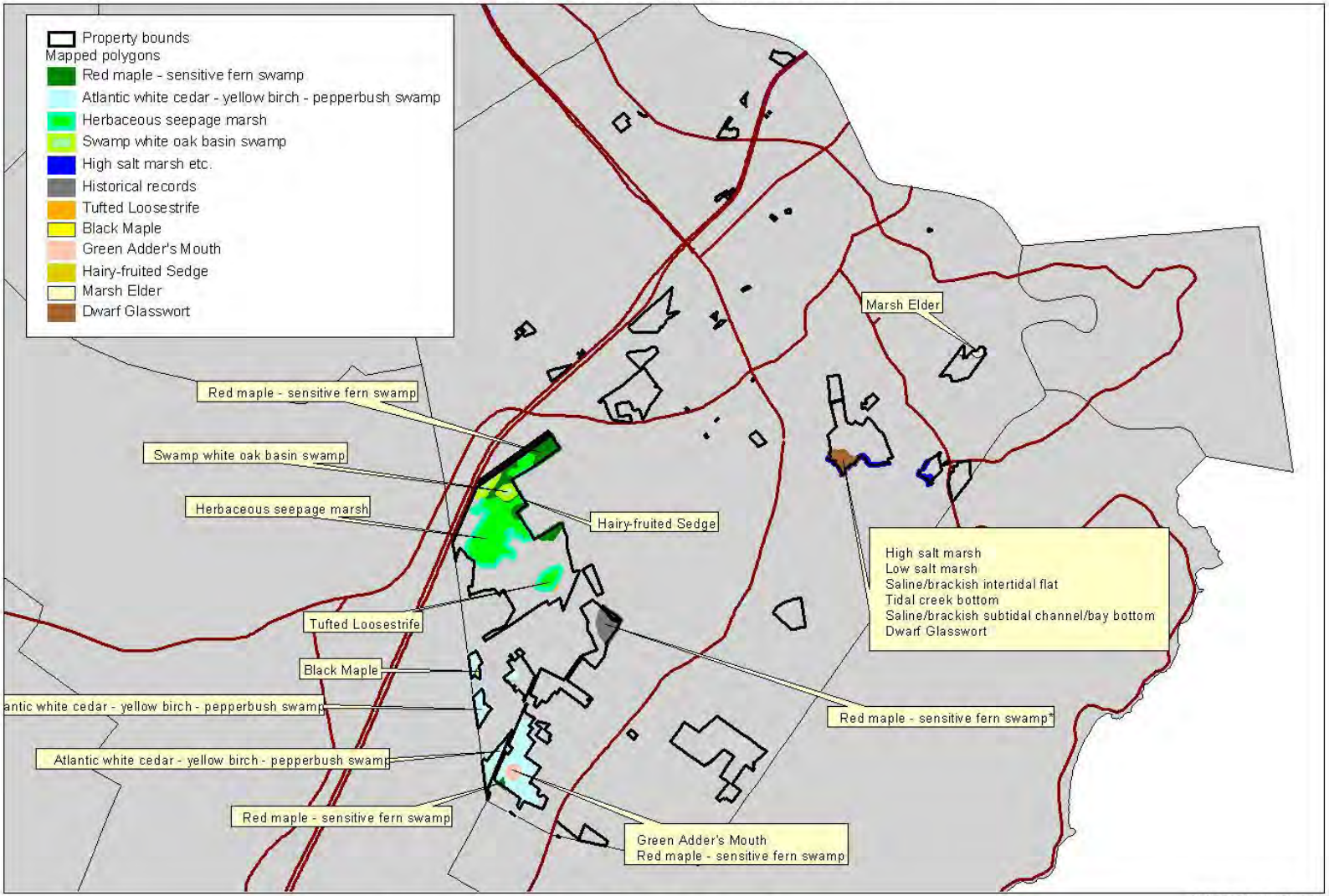
NOTE: This review *cannot* be used to satisfy a permit or other regulatory requirement to check for rare species or habitats that could be affected by a proposed project, since it provides detailed information only for records actually on the property.

NHB: L617

NH Natural Heritage Bureau

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: City of Portsmouth

1:60000

0.25 0 0.25 0.5 0.75 1 Miles

20 Jul 2009

New Hampshire Natural Heritage Bureau - Community Record

Atlantic white cedar - yellow birch - pepperbush swamp

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Not ranked (need more information)
State:	Not listed	State:	Imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank: Fair quality, condition and/or lanscape context ('C' on a scale of A-D).
Comments on Rank:

Detailed Description: 1994: 45 species present. Cedars are medium size (DBH = 35cm; height = 18 meters).
General Area: 1994: During wet years, two ponds and connecting channels fill with water. During the dry years, emergent vegetation grows in mud. Drainage is either toward Pickering Brook or is closed.
1994: Ranks were assigned based on size of the stand, tree age, distribution of age-classes, disturbance, competition from other vegetation, hydrologic integrity, and buffering. An "A" rank would have contiguous cedar stands of >= 40 acres in extent, many trees > 120 years old, a broad range of age classes, no remaining signs of human or beaver disturbance, and buffering from local water variations (Sperduto & Ritter 1994).

Location

Survey Site Name: Ocean Road-Banfield Site
Managed By: Drake

County:	Rockingham	USGS quad(s):	Portsmouth (4307017)
Town(s):	Portsmouth	Lat, Long:	430157N, 0704823W
Size:	1.7 acres	Elevation:	40 feet

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

Directions: Take Lafayette Road (Route 1) north to left turn on Ocean Road. Site is ca. 0.25 miles past railroad crossing (before Banfield Road intersection on right).

Dates documented

First reported:	1974	Last reported:	1994

Straus, C. 1994. Field observations from study of cedar wetlands of Portsmouth, NH conducted during and since 1974-1975. Unpublished data. Personal communication with Dan Sperduto, October 1994.

Sperduto, D. & N. Ritter. 1994. Altantic White Cedar Wetlands of New Hampshire. Environmental Protection Agency, Boston, MA.

New Hampshire Natural Heritage Bureau - Community Record

Atlantic white cedar - yellow birch - pepperbush swamp

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Not ranked (need more information)
State:	Not listed	State:	Imperiled due to rarity or vulnerability

Description at this Location

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

Detailed Description: 1993: In many areas the canopy is almost entirely composed of *Chamaecyparis thyoides* (Atlantic white cedar), with small amounts of *Acer rubrum* (red maple), *Pinus strobus* (white pine), and *Tsuga canadensis* (hemlock). The subcanopy is generally very sparse, and is dominated by *Betula alleghaniensis* (yellow birch). The shrub layer varies from abundant to scattered. *Vaccinium corymbosum* (highbush blueberry) and *Clethra alnifolia* (sweet pepperbush) are the dominant shrubs. The herb layer is similarly variable throughout the stand and is characterized by a large number of Carex species (sedges), as well as abundant and varied ferns. Principal ferns are *Osmunda cinnamomea* (cinnamon fern) and *Woodwardia virginica* (Virginia chain-fern). The presence of a large boulder with cracks large enough to sustain soil and plants provides habitat for two unusual Atlantic white cedar basin swamp species, *Polypodium virginianum* (rock polypody) and *Rubus allegheniensis* (common blackberry).

General Area: 1993: The tracks of the Boston and Maine Railroad bisect the once contiguous stand, disrupting the hydrology and essentially influencing two distinct cedar communities. The prevalent soil is mucky peat over marine clay. Peat deposits were determined to be less than 1 meter in some areas of the swamp. The soil water is fairly acidic - with a pH of 4.2. 1989: Portion of larger Packer Bog complex with relatively stagnant drainage and dominance of *Chamaecyparis thyoides* (Atlantic white cedar). Best cedar on west side of railroad track. 1993: Ranks were assigned based on size of the stand, tree age, distribution of age-classes, disturbance, competition from other vegetation, hydrologic integrity, and buffering. An "A" rank would have contiguous cedar stands of >= 40 acres in extent, many trees > 120 years old, a broad range of age classes, no remaining signs of human or beaver disturbance, and buffering from local water variations (Sperduto & Ritter 1994).

Location

Survey Site Name: Packer Bog
Managed By: Hislop

County:	Rockingham	USGS quad(s):	Portsmouth (4307017)
Town(s):	Portsmouth	Lat, Long:	430130N, 0704830W
Size:	23.8 acres	Elevation:	30 feet

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

Directions: Park at junction of railroad and Ocean Road.

Dates documented

First reported:	1989	Last reported:	1993-09-29

Ritter, N. 1993. Field survey to Portsmouth Cedar Swamp on September 29.

Sperduto, D. & N. Ritter. 1994. Altantic White Cedar Wetlands of New Hampshire. Environmental Protection Agency, Boston, MA.

New Hampshire Natural Heritage Bureau - Community Record

Atlantic white cedar - yellow birch - pepperbush swamp

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Not ranked (need more information)
State:	Not listed	State:	Imperiled due to rarity or vulnerability

Description at this Location

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

Detailed Description: 1996: No details. 1989: Has a healthy population of *Chamaecyparis thyoides* (Atlantic white cedar) plus *Picea mariana* (black spruce), *Tsuga canadensis* (hemlock), and *Larix* (larch). Excellent variety of bog plants.

General Area: 1972: Bordered by two roads, forest land, and a railroad bed.
Swamp logged in the past, but has since regained a natural quality. NH Natural Area #3. 335 acres total wetlands at Packer Bog.

Location

Survey Site Name: Packer Bog
Managed By: Packer Bog

County:	Rockingham	USGS quad(s):	Portsmouth (4307017)
Town(s):	Greenland	Lat, Long:	430149N, 0704851W
Size:	359.6 acres	Elevation:	30 feet

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

Directions: Greenland at Packer Bog.

Dates documented

First reported:	1972	Last reported:	1996-07-16

Nichols, Bill. 1996. Field survey to Packer Bog, Greenland on July 16.

Nichols, B. & D. Sperduto. 1996. Ecological inventories of 1996 project areas on the White Mountain National Forest in New Hampshire. New Hampshire Natural Heritage Program, Concord, NH. 83 pp.

New Hampshire Natural Heritage Bureau - Plant Record

Black Maple (*Acer nigrum*)

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Demonstrably widespread, abundant, and secure
State:	Listed Threatened	State:	Imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank: Fair quality, condition and/or lanscape context ('C' on a scale of A-D).
Comments on Rank: The quality, condition, viability and defensibility are marginal.

Detailed Description: 1996: Between one and ten sapling stems. Uncertain future success without knowledge of reproductive viability.

General Area: 1996: Sits along the upland edge adjacent to Packer Bog's southern New England acidic seepage swamp. Associated plant species include *Acer rubrum* (red maple), *Ulmus americana* (American elm), *Viburnum dentatum* var. *lucidum* (northern arrowwood), *Betula lenta*, *Parthenocissus quinquefolia* (Virginia creeper), and *Toxicodendron radicans* (climbing poison ivy).

Location

Survey Site Name: Packer Bog
Managed By: Widen

County:	Rockingham	USGS quad(s):	Portsmouth (4307017)
Town(s):	Portsmouth	Lat, Long:	430157N, 0704838W
Size:	2.8 acres	Elevation:	40 feet

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

Directions: From Rte. 33 (Greenland), head east on Ocean Road. Access behind factory buildings and at end of public roads south and west off of Ocean Road.

Dates documented

First reported: 1996-07-16 Last reported: 1996-07-16

Nichols, Bill. 1996. Field survey to Packer Bog, Greenland on July 16.

Nichols, B. & D. Sperduto. 1997. Ecological Assessment of Selected Towns in the Great Bay Area. New Hampshire Natural Heritage Program, Concord NH. 141 pp.

New Hampshire Natural Heritage Bureau - Plant Record

Dwarf Glasswort (*Salicornia bigelovii*)

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Demonstrably widespread, abundant, and secure
State:	Listed Endangered	State:	Critically imperiled due to rarity or vulnerability

Description at this Location

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

Detailed Description: 1997: More than 3,000 plants on north shore, and 200-400 on the south shore. 1983: (North of Urban Forestry Center) 20 by 20 foot area. Old (last years) inflorescences with new growth, ca. 2 cm in height, none flowering. Specimen at UNH. 1973: (North shore) ca. 101-1000 plants with seeds dispersing. Specimen S.N. at NHA.

General Area: 1997: Triglochin forb pannes on the *high salt marsh*. Associated dominants were *Triglochin maritimum* (arrow-grass), *Distichlis spicata* (spike-grass), *Spartina alterniflora* (smooth cord- grass), and S. patens (salt-meadow cord-grass). *Salicornia europaea* (common glasswort) also present. 1973: 0-10 feet, flat, full sun, wet mud, surrounded by Spartina (cord-grass) species. In salt marsh. Marsh pannes on green.
This occurrence may have been impacted by 1995/96 Dept. of Transportation bridge replacement project. Several colonies (1983) Coastal Zone Report, Bertrand and Dunlop (1983); F.D. Richardson, NH Water Resources Board (1973).

Location

Survey Site Name: Sagamore Creek
Managed By: Sagamore Creek Land

County:	Rockingham	USGS quad(s):	Portsmouth (4307017)
Town(s):	Portsmouth	Lat, Long:	430310N, 0704543W
Size:	14.8 acres	Elevation:	10 feet

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

Directions: Three known sites: (1) Rte 1 and Sagamore Creek, south of Sagamore Creek and east of Rte 1. Wet panne about 30 yards from Rte 1 between 2 telephone poles. Just above State of NH Urban Forestry Center; (2) north shore of Sagamore Creek on either side of small tributary, southwest of Sagamore Hill; (3) south shore of Sagamore Creek ca. 0.5 miles ESE of Rte 1 bridge.

Dates documented

First reported:	1973	Last reported:	1997-06-18

Nichols, Bill. 1997. Field survey to Sagamore Creek on June 18.

Nichols, William F. 2000. Ecological Assessment of Selected Towns in New Hamphire's Coastal Zone. Prepared by NH Natural Heritage Inventory. Concord, NH.

New Hampshire Natural Heritage Bureau - Plant Record

Green Adder's Mouth (*Malaxis unifolia*)

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Demonstrably widespread, abundant, and secure
State:	Listed Threatened	State:	Imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank:	Fair quality, condition and/or lanscape context ('C' on a scale of A-D).
Comments on Rank:	Few plants documented but persistent and in a large wetland, adjacent to development but partly protected.
Detailed Description:	1997: Relocated. 1983: Only a single plant sighted, seeds evidence of reproduction.
General Area:	1983: On small mossy hummock at edge of stream in acidic seepage swamp community with *Picea mariana* (black spruce), *Chamaecyparis thyoides* (Atlantic white cedar), *Larix laricina* (eastern larch), sedges, grasses, etc.

Location

Survey Site Name:	Portsmouth Cedar Swamp		
Managed By:	Beals + Widen		
County:	Rockingham	USGS quad(s):	Portsmouth (4307017)
Town(s):	Portsmouth	Lat, Long:	430122N, 0704823W
Size:	2.8 acres	Elevation:	35 feet

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

Directions: Portsmouth Cedar Swamp. Take Rte. 1 south from Portsmouth just before Rye town line, turn right on access road for pumping station. Take pipeline trail toward railroad tracks into swamp.

Dates documented

First reported:	No Date	Last reported:	1997-10-01

Brackley, F., T. Rawinski, & C. Straus. 1983. Field survey to Portsmouth Cedar Swamp on November 7.

Nichols, William F. 2000. Ecological Assessment of Selected Towns in New Hamphire's Coastal Zone. Prepared by NH Natural Heritage Inventory. Concord, NH.

New Hampshire Natural Heritage Bureau - Plant Record

Hairy-fruited Sedge (*Carex trichocarpa*)

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Apparently secure but with cause for concern
State:	Listed Endangered	State:	Critically imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank:	Fair quality, condition and/or lanscape context ('C' on a scale of A-D).
Comments on Rank:	Small population, needs field work.
Detailed Description:	2004: Searched for but not found. 2003: Searched for but not found. 2002: Searched for but not found. 1989: 50-100 budding plants. Rawinski specimen #9001 temporarily in personal herbarium.
General Area:	1989: Red maple swamp. With *Carex rostrata* (beaked sedge), *Acer rubrum* (red maple), *Cornus amomum* (silky dogwood), and *Typha latifolia* (common cat-tail). 2003: The surveyor (Jeremy Bell) has learned to ID this plant without flower or seed, so would like to go back next year to look again. 2002: General reported area was searched, but is all swamp and extremely challenging to cover. Also, original topographic map shows polygons covering extensive area - much of this was searched, but no plants were found. Unknown date: More inventory needed.

Location

Survey Site Name:	Great Bog		
Managed By:	City of Portsmouth Land		
County:	Rockingham	USGS quad(s):	Portsmouth (4307017)
Town(s):	Portsmouth	Lat, Long:	430258N, 0704818W
Size:	7.7 acres	Elevation:	35 feet

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

Directions: Great Bog. South of railroad, west and north of powerline right-of-way.

Dates documented

First reported:	1989-05-30	Last reported:	1989-05-30

Pau, Nancy. 2004. Field survey to Great Bog on July 8.

New Hampshire Natural Heritage Bureau - Community Record

Herbaceous seepage marsh

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Not ranked (need more information)
State:	Not listed	State:	Rare or uncommon

Description at this Location

Conservation Rank: Good quality, condition and lanscape context ('B' on a scale of A-D).
Comments on Rank: A very large seepage marsh in a compromised landscape context.

Detailed Description: 2002: The northern portion of the seepage marsh is characterized by dense swards of *Carex lacustris* (lake sedge) (50%) accompanied by *Typha latifolia* (common cat-tail, 10%), *Toxicodendron radicans* (climbing poison ivy, 5-10%), *Thelypteris palustris* var. *pubescens* (marsh fern, 5-10%), *Onoclea sensibilis* (sensitive fern, 5%), and scattered sapling *Acer rubrum* (red maple, 1-5%). Numerous other herbs are present in low abundance. This area grades further south into sparse woodland areas with more red maple (20-40 ft. tall, including many dead snags), but still more marshy than swampy. A soil sample was very well decomposed muck over silty muck. 1989: The hybrid cattail *Typha* x *Glauca* dominates open areas with extremely abundant *Lysimachia thyrsiflora* (tufted loosestrife). State record *Carex trichocarpa* (hairy-fruited sedge) occurs at the marsh-swamp ecotone.

General Area: 2002: The seepage marsh is the dominant community in the central and western portions of Great Bog, and bounded to the west by the large seepage swamp, to the north by railroad tracks, to the NW by swamp white oak swamp, to the west by the highway and disturbed emergent marsh, and to the south by powerlines and upland areas. While surrounded by development, Great Bog is so large that it is actually one of the largest and least developed tracts of land in Portsmouth. 1989: Borders the red maple swamp forests that the Great Bog largely consists of.
1989: Further field work and a field form is needed.

Location

Survey Site Name: Great Bog
Managed By: Hospital Corporation of America

County:	Rockingham	USGS quad(s):	Portsmouth (4307017)
Town(s):	Portsmouth	Lat, Long:	430251N, 0704822W
Size:	128.6 acres	Elevation:	40 feet

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

Directions: Great Bog. South and east of crook in powerline right-of-way. Best approach to portion of site visited in 2002 (without pulling over on I-95) is from north via the railroad tracks just south of crossing of Rte. 33 and I-95. Park in vicinity of Rte. 33 crossing of railroad tracks, at industrial complex on Griffen Rd to south of Rte. 33 (closest but dense shrub border along railroad track) or at railroad bridge by Greenland and Borthwick Streets just north of Rte. 33 (easiest). Proceed southwest on railroad tracks. The seepage swamp is located to the south just past the industrial complex (0.25 miles from Rte. 33); the seepage marsh is found further along past the seepage swamp (open area with few trees ca. 0.45 miles from Rte. 33); and the swamp white oak swamp is found where trees pick up again south of the RR tracks closer to the highway crossing (0.7 miles from Rte. 33).

Dates documented

First reported:	1989-05-30	Last reported:	2002-09-27

Sperduto, Dan. 2002. Field survey to Great Bog on September 27.

Sperduto, Daniel, and Stephanie Neid. 2003. Exemplary Bogs and Fens in New Hampshire: Part II. Prepared for the Environmental Protection Agency by the NH Natural Heritage Bureau. Concord, NH.

New Hampshire Natural Heritage Bureau - Community Record

High salt marsh

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Not ranked (need more information)
State:	Not listed	State:	Rare or uncommon

Description at this Location

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

Detailed Description: 2006: Observed and photographed *high salt marsh* as the dominant community in the Sagamore Creek estuary.1997: Dominated by the perennial grass *Spartina patens* (salt-meadow cord-grass). Covered more area than the *low salt marsh*. This zone had the highest species richness within the high marsh and included *Solidago sempervirens* (seaside goldenrod), *Festuca rubra* (red fescue), *Hierochloe odorata* (sweet grass), *Elytrigia repens* (quack-grass), *Ligusticum scothicum* (Scotch lovage), *Panicum virgatum* (switch-grass), *Aster novi-belgii* (New York aster), *Teucrium canadensis* (germander), *Sanguisorba canadensis* (Canadian burnet), *Spartina pectinata* (fresh-water cord-grass), *Carex hormathodes* (necklace sedge), and *Juncus arcticus* var. *littoralis* (shore rush). *Distichlis spicata* mixed with *S. patens*, growing at similar elevations on the high marsh or dominated in of the wetter, more poorly drained areas with *Triglochin maritimum* (arrow-grass). Some of these *Triglochin* (forb) pannes supported large numbers of the rare plants *Agalinis maritima* (salt-marsh gerardia) and *Salicornia bigelovii* (dwarf glasswort). *Spartina alterniflora* (short form) pannes occurred on less firm peat soils and appeared to be somewhat deeper, often larger, and saturated or flooded for longer periods than forb pannes.

General Area: 1997: Sagamore Creek is a relatively diverse, sizable, and significant estuary supporting good quality estuarine habitat. Three small, fair quality *brackish marshes* occurred landward of the *high salt marsh*. *Low salt marsh*, *tidal creek bottoms*, a *saline/brackish intertidal flat*, and an undifferentiated *saline/brackish subtidal channel/bay bottom* occur toward the channel. A population of *Puccinellia paupercula* var. *alaskana* (Alaskan goose-grass) was found on the cobbly shore of one of two "salt marsh islands" in the estuary. These islands were covered by *hemlock-beech-oak-pine forest*. Moderate residential and commercial development occurs particularly around the western lobe where Rte. 1 crosses the estuary. Estuarine tidal flow was evaluated as adequate for the salt marsh west of Rte. 1 and unaffected for the remainder of the marsh (USDA Soil Conservation Service 1994).

Location

Survey Site Name: Sagamore Creek
Managed By: Urban Forestry Center

County:	Rockingham	USGS quad(s):	Portsmouth (4307017)
Town(s):	Portsmouth	Lat, Long:	430259N, 0704537W
Size:	64.3 acres	Elevation:	4 feet

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

Directions: Park at Urban Forestry Center on Elwyn Road. Trails lead from here down to the southern edge of the salt marsh along Sagamore Creek, and east through adjacent upland forest to more trails leading to the eastern side of the salt marsh. The western side of the marsh can be accessed from the Episcopal Church near the southeast edge along Rte. 1. The Rte. 1 bridge crosses the creek at the western edge of the salt marsh (the marsh continues on the western side of the bridge but it has been heavily ditched there and is not exemplary).

Dates documented

First reported:	1997-06-18	Last reported:	2006-05-24

Kimball, Ben. 2006. Field visit to Sagamore Creek on May 24.

Nichols, William F. 2000. Ecological Assessment of Selected Towns in New Hamphire's Coastal Zone. Prepared by NH Natural Heritage Inventory. Concord, NH.

New Hampshire Natural Heritage Bureau - Community Record

Low salt marsh

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Not ranked (need more information)
State:	Not listed	State:	Rare or uncommon

Description at this Location

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

Detailed Description: 2006: Observed and photographed along the edges of tidal creeks and along the lower fringes of the much more dominant *high salt marsh* community.1997: *Spartina alterniflora* (smooth cord-grass) dominates. The band of *S. alterniflora*, reaching heights of 4-6 feet, generally was restricted to a narrow fringe along ditches, tidal creeks, and margins of Sagamore Creek.

General Area: 1997: The transition between *high* and *low salt marsh* occurred approximately at the mean high water mark; *high salt marsh* stretched landward from mean high water to the upper reaches of spring tides. Sagamore Creek is a relatively diverse, sizable, and significant estuary supporting good quality estuarine habitat. Three small, fair quality *brackish marshes* and a *high salt marsh* occurred landward of the *low salt marsh*. *Tidal creek bottoms*, a *saline/brackish intertidal flat*, and an undifferentiated *saline/brackish subtidal channel/bay bottom* occurred toward the channel. A population of *Puccinellia paupercula* var. *alaskana* (Alaskan goose-grass) was found on the cobbly shore of one of two "salt marsh islands" in the estuary. These islands were covered by *hemlock-beech-oak-pine forest*. Moderate residential and commercial development occurs particularly around the western lobe where Rte. 1 crosses the estuary. Estuarine tidal flow was evaluated as adequate for the salt marsh west of Rte. 1 and unaffected for the remainder of the marsh (USDA Soil Conservation Service 1994).
1997: The *low salt marsh* has more frequent tidal flooding, lower soil oxygen, and reduced soil salinity compared to the *high salt marsh*. *S. alterniflora* dominated the physically stressful low marsh due to its ability to oxygenate its roots and rhizosphere.

Location

Survey Site Name: Sagamore Creek
Managed By: Urban Forestry Center

County:	Rockingham	USGS quad(s):	Portsmouth (4307017)
Town(s):	Portsmouth	Lat, Long:	430259N, 0704537W
Size:	64.3 acres	Elevation:	4 feet

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

Directions: Occurs between mean sea level and mean high tide. Park at Urban Forestry Center on Elwyn Road. Trails lead from here down to the southern edge of the salt marsh along Sagamore Creek, and east through adjacent upland forest to more trails leading to the eastern side of the salt marsh. The western side of the marsh can be accessed from the Episcopal Church near the southeast edge along Rte. 1. The Rte. 1 bridge crosses the creek at the western edge of the salt marsh (the marsh continues on the western side of the bridge but it has been heavily ditched there and is not exemplary).

Dates documented

First reported:	1997-06-18	Last reported:	2006-05-24

Kimball, Ben. 2006. Field visit to Sagamore Creek on May 24.

Nichols, William F. 2000. Ecological Assessment of Selected Towns in New Hamphire's Coastal Zone. Prepared by NH Natural Heritage Inventory. Concord, NH.

New Hampshire Natural Heritage Bureau - Plant Record

Marsh Elder (*Iva frutescens ssp. oraria*)

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Demonstrably widespread, abundant, and secure
State:	Listed Threatened	State:	Imperiled due to rarity or vulnerability

Description at this Location

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

Comments on Rank: THIS RANK MAY BE FOR THE STATE RATHER THAN RELATIVE TO OTHERS IN THE REGIONS.

Detailed Description: 1996: Constant observation since 1953 reported, including all stages of phenology and age structure. 1982: Good clump observed.

General Area: 1996: On shores of several islands and peninsulas in the more or less enclosed bay system. Associated plant species: *Solidago sempervirens* (seaside goldenrod), *Juncus gerardii* (salt marsh rush), *Spartina patens* (salt-meadow cord-grass), *Triglochin maritimum* (arrow-grass), *Elymus virginicus* (Virginia wild rye), *Atriplex patula* (narrow-leaved orach), and *Artemisia vulgaris* (common mugwort). Substrate: gravel and marsh peat and muck. 1982: On shore at Pleasant Point.

Location

Survey Site Name: Little Harbor, back channel

Managed By: Little Harbor Trust

County:	Rockingham	USGS quad(s):	Kittery (4307016)
Town(s):	Portsmouth	Lat, Long:	430409N, 0704409W
Size:	57.8 acres	Elevation:	10 feet

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

Directions: In the vicinity of Rte. 1B which encircles the Little Harbor back channel from Portsmouth to Newcastle and Rye. Many of the sites are visible only by boat.

Dates documented

First reported:	1953	Last reported:	1996-04-01

Straus, Dr. Clotilde. Pleasant Point Portsmouth NH 03801 603/436-0730.

Straus, C.M. 1996. Special plant survey form for Little Harbor backchannel shores dated April 1.

New Hampshire Natural Heritage Bureau - Community Record

Red maple - sensitive fern swamp

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Not ranked (need more information)
State:	Not listed	State:	Imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank: Historical records only - current condition unknown.
Comments on Rank:

Detailed Description: 1982: Large *Tsuga* with *Taxus, Lindera, Equisetum sylvaticum, Epilobium glandulosum, Viburnum alnifolium, Picea rubens*.
General Area: 1982: Wet, spongy forest with numerous springs giving rise to brooklets.

Location

Survey Site Name: Banfield & Lafayette Road Site
Managed By: Grossman Development Properties, Inc.

County:	Rockingham	USGS quad(s):	Portsmouth (4307017)
Town(s):	Portsmouth	Lat, Long:	430214N, 0704730W
Size:	51.4 acres	Elevation:	45 feet

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

Directions: Portsmouth. Banfield and Lafayette Road site. Between the 2 roads.

Dates documented

First reported:	1982	Last reported:	1982

Straus, Dr. Clotilde. Pleasant Point Portsmouth NH 03801 603/436-0730.

New Hampshire Natural Heritage Bureau - Community Record

Red maple - sensitive fern swamp

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Not ranked (need more information)
State:	Not listed	State:	Imperiled due to rarity or vulnerability

Description at this Location

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

Comments on Rank: This is a fairly mature and very large example in a compromised landscape context. This part of Great Bog is less influenced by hydrologic alterations than portions nearer the outlet to the west.

Detailed Description: 2002: Two seepage swamp associations were observed at the north end of the seepage swamp system. Area 1 occurs further east (ie along border of development to the east) and has a denser *Acer rubrum* (red maple) cover (60-70%) and a sparse shrub layer. It is dominated by *Carex stricta* (tussock sedge; 35%), *Calamagrostis canadensis* (blue-joint; 15-20%), and *Onoclea sensibilis* (sensitive fern), with lesser quantities of *Carex lacustris* (lake sedge) and *Toxicodendron radicans* (climbing poison ivy). Area 2 is a classic red maple/lake sedge seepage swamp, with all the species of Area 1 present in lower abundance, less dense red maple (40%), a dominant layer of *Carex lacustris* (lake sedge; 60%) and sensitive fern (5%), and a denser shrub layer consisting mostly of *Vaccinium corymbosum* (highbush blueberry; 30%) and *Ilex verticillata* (winterberry; 5%). *Ulmus americana* (American elm) is occasional in the subcanopy. 1989: Acer rubrum (red maple) dominates. Understory dominants include *Carex stricta* (tussock sedge), *Alnus serrulata* (smooth alder), *Onoclea sensibilis* (sensitive fern), *Symplocarpus foetidus* (skunk cabbage). *Lysimachia thyrsiflora* (tufted loosestrife) also occurs here.

General Area: 2002: The seepage swamp is the dominant community in eastern portion of Great Bog, and bounded to the west by the large seepage marsh, to the north by railroad tracks, to the south by powerlines and upland. While surrounded by development, Great Bog is so large that it is actually one of the largest and least developed tracts of land in Portsmouth.
1989: Further field work needed.

Location

Survey Site Name: Great Bog
Managed By: City of Portsmouth Land

County:	Rockingham	USGS quad(s):	Portsmouth (4307017)
Town(s):	Portsmouth	Lat, Long:	430303N, 0704807W
Size:	100.0 acres	Elevation:	55 feet

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

Directions: Great Bog. North and west of powerline right-of-way. Best approach to portion of site visited in 2002 (without pulling over on I-95) is from north via the railroad tracks just south of crossing of Rte. 33 and I-95. Park in vicinity of Rte. 33 crossing of railroad tracks, at industrial complex on Griffen Rd to south of Rte. 33 (closest but dense shrub border along RR track) or at RR bridge by Greenland and Borthwick Streets just north of Rte. 33 (easiest). Proceed southwest on RR tracks. The seepage swamp is located to the south just past the industrial complex (0.25 miles from Rte. 33); the seepage marsh is found further along past the seepage swamp (open area with few trees ca. 0.45 miles from Rte. 33); and the swamp white oak swamp is found where trees pick up again south of the RR tracks closer to the highway crossing (0.7 miles from Rte. 33).

Dates documented

First reported:	1989-05-30	Last reported:	2002-09-27

Sperduto, Dan. 2002. Field survey to Great Bog on September 27.

Sperduto, Daniel, and Stephanie Neid. 2003. Exemplary Bogs and Fens in New Hampshire: Part II. Prepared for the Environmental Protection Agency by the NH Natural Heritage Bureau. Concord, NH.

New Hampshire Natural Heritage Bureau - Community Record

Red maple - sensitive fern swamp

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Not ranked (need more information)
State:	Not listed	State:	Imperiled due to rarity or vulnerability

Description at this Location

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

Detailed Description: 1997: Primarily *Acer rubrum* (red maple). Characterized by a variably closed canopy controlled by flooding duration and soil saturation. Associates with the A. rubrum in the canopy were *Fraxinus nigra* (black ash), *Ulmus americana* (American elm), and *Betula lenta* (black birch). The moderately developed shrub layer was dominated by *Ilex verticillata* (winterberry), *Viburnum dentatum* var. *lucidum* (northern arrow-wood), and *Clethra alnifolia* (sweet pepperbush). Herb composition and density was variable depending in part on canopy closure and the height of the water table during the growing season. Common species included *Carex stricta* (tussock sedge), *Osmunda regalis* (royal fern), *Onoclea sensibilis* (sensitive fern), *Lemna minor* (lesser duckweed), *Sparganium americanum* (lesser bur reed), and *Typha latifolia* (broad-leaved cat-tail). State rare *Malaxis unifolia* (green adder's-mouth) and *Chamaecyparis thyoides* (Atlantic white cedar) were relocated in the swamp. 1989: Classic acidic seepage swamp with impressive *Acer rubrum* (red maple) and diversity of conifers including *Chamaecyparis thyoides* (Atlantic white cedar). Characteristic species include *Carex folliculata* (follicled sedge), *Larix laricina* (eastern larch), *Platanthera clavellata* (small green woodland orchid), *Sarracenia purpurea* (pitcher-plant), and Rhus vernix.

General Area: 1997: An Atlantic white cedar basin swamp also occurs in this area, with three others farther downstream. Much of the upland forested community in the watershed is second growth transitional hardwood-conifer forest. 1989: Atlantic white cedar swamp which contains some fairly old regrowth forest. Less than characteristic amount of cedar here may be due to past cutting.
1989: This swamp is the headwaters for 2 brooks. Malaxis unifolia (green adder's-mouth) is found here.

Location

Survey Site Name: Portsmouth Cedar Swamp
Managed By: RamaikA

County:	Rockingham	USGS quad(s):	Portsmouth (4307017)
Town(s):	Portsmouth	Lat, Long:	430122N, 0704823W
Size:	35.3 acres	Elevation:	30 feet

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

Directions: From Portsmouth, go south ca. 3-4 miles on Rte. 1 to crossing of Berry's Brook and the Portsmouth/Greenland town line. Portion of Packer Bog east of railroad track and west of Route 1. Site is behind pumping station on Rte. 1. Follow pipeline trail toward railroad tracks and into swamps.

Dates documented

First reported:	1983	Last reported:	1997-10-01

Nichols, Bill. 1997. Field survey to Berry's Brook on October 1.

Nichols, William F. 2000. Ecological Assessment of Selected Towns in New Hamphire's Coastal Zone. Prepared by NH Natural Heritage Inventory. Concord, NH.

New Hampshire Natural Heritage Bureau - Community Record

Saline/brackish intertidal flat

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Not ranked (need more information)
State:	Not listed	State:	Rare or uncommon

Description at this Location

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

Detailed Description: 2006: Mudflats observed and photographed at low-mid tide.1997: No details.

General Area: 1997: Sagamore Creek is a relatively diverse, sizable, and significant estuary supporting good quality estuarine habitat. Three small, fair quality *brackish marshes* and *high* and *low salt marshes* occur landward of the flats. *Tidal creek bottoms* and an undifferentiated *saline/brackish subtidal channel/bay bottom* occur toward the channel. A population of *Puccinellia paupercula* var. *alaskana* (Alaskan goose-grass) was found on the cobbly shore of one of two "salt marsh islands" in the estuary. These islands were covered by *hemlock-beech-oak-pine forest*. Moderate residential and commercial development occurs particularly around the western lobe where Rte. 1 crosses the estuary. Estuarine tidal flow was evaluated as adequate for the salt marsh west of Rte. 1 and unaffected for the remainder of the marsh (USDA Soil Conservation Service 1994).
1997: Intertidal sand and mud flats are gently sloping, sparsely vegetated, habitats. The substrate, exposed completely at extra low spring tide, ranges in composition from sands to muds and silts. Benthic diatoms and other microalgae occurring in this environment are important contributors to the primary productivity of the total estuarine system (Sickley 1989). Macroalgae is typically uncommon across the exposed substrate. Characteristic invertebrates found in New Hampshire's intertidal mudflats include polychaete worms (including *Nereis virens*, *Nephtys caeca*, *Clymenella tortquata*, and *Scoloplos* spp.) and mollusks (including soft-shelled clam [*Mya arenaria*], Baltic Macoma [*Macoma balthica*], gem shell [*Gemma gemma*], and swamp Hydrobia [*Hydrobia minuta*]) (NAI 1973). Arthropods are also well represented and include green crabs (*Carcinus maenus*), rock crabs (*Cancer irroratus*), flat-clawed hermit crabs (*Pagurus pollicaris*), and horseshoe crabs (*Limulus polyphemis*). During the diurnal (twice daily) tidal flooding, several species of fish and other aquatic species feed on the benthos and epibenthic algae. This community also provides important foraging habitat for shorebirds and other animals when the intertidal flat is exposed. The diverse variety of primary foods (microalgae, phytoplankton, and detritus) available to consumers supports the high productivity found on intertidal flats. The substrate is composed of sand or silt and clay rich in organic matter. Vascular plants are sparse to more typically absent.

Location

Survey Site Name: Sagamore Creek
Managed By: Urban Forestry Center

County:	Rockingham	USGS quad(s):	Portsmouth (4307017)
Town(s):	Portsmouth	Lat, Long:	430259N, 0704549W
Size:	105.3 acres	Elevation:	

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

Directions: Occurs between estuarine marshes or other coastal communities landward and subtidal communities seaward and includes tidal creek channels exposed at low tide. Park at Urban Forestry Center on Elwyn Road. Trails lead from here down to the southern edge of the salt marsh. Salt marsh can also be accessed from the Rte. 1 bridge on the western side.

Dates documented

First reported:	1997-06-18	Last reported:	2006-05-24

Kimball, Ben. 2006. Field visit to Sagamore Creek on May 24.

Nichols, William F. 2000. Ecological Assessment of Selected Towns in New Hamphire's Coastal Zone. Prepared by NH Natural Heritage Inventory. Concord, NH.

New Hampshire Natural Heritage Bureau - Community Record

Saline/brackish subtidal channel/bay bottom

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Not ranked (need more information)
State:	Not listed	State:	Rare or uncommon

Description at this Location

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

Detailed Description: 1997: Substrates varied at different locations and included mud, sand, gravel, cobble, or rock. Vascular plants were typically absent or sparse. Seaweeds are an important component of this habitat and the surrounding environment.

General Area: 1997: Sagamore Creek is a relatively diverse, sizable, and significant estuary supporting good quality estuarine habitat. Three small, fair quality *brackish marsh*es, high and *low salt marsh*es, *saline/brackish intertidal flat*s, and *tidal creek bottom* all occurred landward of the subtidal channel bottom. A population of *Puccinellia paupercula* var. *alaskana* (Alaskan goose-grass) was found on the cobbly shore of one of two "salt marsh islands" in the estuary. These islands were covered by *hemlock-beech-oak-pine forest*. Moderate residential and commercial development occurs particularly around the western lobe where Route 1 crosses the estuary. Estuarine tidal flow was evaluated as adequate for the salt marsh west of Route 1 and unaffected for the remainder of the marsh (USDA Soil Conservation Service 1994). 1997: These communities perform important ecological functions including supporting fish populations, providing refuge for fish and invertebrates that retreat from intertidal flats and estuarine marshes at low tide, and serving as a spawning and nursery area for numerous species of aquatic animals (Short 1992). Salinities in coastal areas remain close to 30 ppt year-round (Short 1992).

Location

Survey Site Name: Sagamore Creek
Managed By: Urban Forestry Center

County:	Rockingham	USGS quad(s):	Portsmouth (4307017)
Town(s):	Portsmouth	Lat, Long:	430304N, 0704531W
Size:	86.2 acres	Elevation:	

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

Directions: Park at Urban Forestry Center on Elwyn Road. Occurs in permanently flooded saline tidal channels and bays.

Dates documented

First reported:	1997-06-18	Last reported:	1997-06-18

Nichols, Bill. 1997. Field survey to Sagamore Creek on June 18.

Nichols, William F. 2000. Ecological Assessment of Selected Towns in New Hamphire's Coastal Zone. Prepared by NH Natural Heritage Inventory. Concord, NH.

New Hampshire Natural Heritage Bureau - Community Record

Swamp white oak basin swamp

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Not ranked (need more information)
State:	Not listed	State:	Critically imperiled due to rarity or vulnerability

Description at this Location

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

Comments on Rank: 4-5 acres dominated by swamp white oak, an additional 8-10 acres where it is codominant, and another several acres predicted from air photos (not visited). Mature and fair to good sized example, compromised by proximity of highway, evidence of old ditching at south end of swamp, and a make-shift blue-tarp shelter/tipee.

Detailed Description: 2002: This is a nice, mature example of a swamp white oak swamp. About 4-5 acres (eastern half of Area 1) are dominated by *Quercus bicolor* (swamp white oak, 50-60%), with *Acer rubrum* (red maple) codominant (ca. 15%), and *Carpinus caroliniana* var. *virginiana* (musclewood) contributing ca. 25% cover in the understory. The herb layer is sparse, excepting patches of *Onoclea sensibilis* (sensitive fern, ca. 25%), a few other herbs, and *Toxicodendron radicans* (climbing poison ivy). The exotic *Elaeagnus umbellata* (autumn olive) occurs in low abundance (<1%). The western half of Area 1, closer to the railroad tracks and highway, is somewhat drier and swamp white oak is only codominant (ca. 20%) cover along with similar amounts of *Pinus strobus* (white pine), *Betula lenta* (black birch), red maple, and *Tsuga canadensis* (hemlock). As in other swamp white oak swamps, the soil here is a silt loam. Several more acres of swamp white oak swamp (Area 2) are predicted from air photos to occur to the SE beyond a band of red maple swamp.

General Area: 2002: The swamp white oak swamp is bound by railroad tracks to the north, Rte. 95 to the west, and Great Bog to the south and east. There is a band of red maple swamp between swamp white oak patches at Area 1 and Area 2, with the large seepage marsh beyond to the east and south that dominate much of Great Bog.

2002: While compromised by proximity to highway, the swamp may be forever protected from further development by being surrounded by highway, railroad track, and a huge wetland.

Location

Survey Site Name: Great Bog

Managed By: City of Portsmouth Land

County:	Rockingham	USGS quad(s):	Portsmouth (4307017)
Town(s):	Portsmouth	Lat, Long:	430304N, 0704834W
Size:	10.3 acres	Elevation:	55 feet

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

Directions: Best approach to portion of site visited in 2002 (without pulling over on I-95) is from north via the railroad tracks just south of crossing of Rte. 33 and I-95. Park in vicinity of Rte. 33 crossing of railroad tracks, at industrial complex on Griffen Rd to south of Rte. 33 (closest but dense shrub border along railroad track) or at railroad bridge by Greenland and Bothwick Streets just north of Rte. 33 (easiest). Proceed SW on railroad tracks. The seepage swamp is located to the south just past the industrial complex (0.25 miles from Rte. 33); the seepage marsh is found further along past the seepage swamp (open area with few trees ca. 0.45 miles from Rte. 33); and the swamp white oak swamp is found where trees pick up again south of the RR tracks closer to the highway crossing (0.7 miles from Rte. 33).

Dates documented

First reported: 2002-09-27 Last reported: 2002-09-27

Sperduto, Dan. 2002. Field survey to Great Bog on September 27.

Sperduto, Daniel, and Stephanie Neid. 2003. Exemplary Bogs and Fens in New Hampshire: Part II. Prepared for the Environmental Protection Agency by the NH Natural Heritage Bureau. Concord, NH.

New Hampshire Natural Heritage Bureau - Community Record

Tidal creek bottom

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Not ranked (need more information)
State:	Not listed	State:	Rare or uncommon

Description at this Location

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

Detailed Description: 1997: The substrate was composed of mud rich in organic matter. Vascular plants were sparse but included *Ruppia maritima* (widgeon-grass).

General Area: 1997: Sagamore Creek is a relatively diverse, sizable, and significant estuary supporting good quality estuarine habitat. Three small, fair quality *brackish marshes, high* and *low salt marshes*, and *saline/brackish intertidal flats* occurred landward of the flats. An undifferentiated *saline/brackish subtidal channel/bay bottom* occurred toward the channel. A population of *Puccinellia paupercula* var. *alaskana* (Alaskan goose-grass) was found on the cobbly shore of one of two "salt marsh islands" in the estuary. These islands were covered by *hemlock-beech-oak-pine forest*. Moderate residential and commercial development occurs particularly around the western lobe where Rte. 1 crosses the estuary. Estuarine tidal flow was evaluated as adequate for the salt marsh west of Rte. 1 and unaffected for the remainder of the marsh (USDA Soil Conservation Service 1994).
2006: Tidal creeks observed and photographed, but not at low tide.1997: Tidal creeks provide habitat for stickleback (*Pungitius pungitius*, *Gasterosteus aculeatus*, and *Apeltes quadracus*), mummichog (*Fundulus heteroclitus*), and several other species of fish (Short 1992) and foraging ground for migratory and year round bird species and other animals. As the salt marsh replaces accreting intertidal flats seaward, tidal creeks develop along former intertidal flat drainage channels. Landward, as the *high salt marsh* develops above mean high water, tidal flooding frequency decreases, reducing drainage flow in the creeks. This tends to cause the upstream end of the tidal creek to fill in as sediment deposition occurs at a greater rate than erosion (Redfield 1972). The banks of tidal creeks were nearly vertical and often slump, supporting a narrow band of *Spartina alterniflora* (smooth cord-grass) (see *low salt marsh* description for this site).

Location

Survey Site Name: Sagamore Creek
Managed By: Urban Forestry Center

County:	Rockingham	USGS quad(s):	Portsmouth (4307017)
Town(s):	Portsmouth	Lat, Long:	430259N, 0704549W
Size:	105.3 acres	Elevation:	

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

Directions: Occurs in permanently flooded creek-bottoms draining water from the high and low salt marsh into the main channel or bay. Park at Urban Forestry Center on Elwyn Road. Trails lead from here down to the southern edge of the salt marsh system. Can also be accessed from the Rte. 1 bridge on the western side of the marsh.

Dates documented

First reported:	1997-06-18	Last reported:	1997-06-18

Kimball, Ben. 2006. Field visit to Sagamore Creek on May 24.

Nichols, William F. 2000. Ecological Assessment of Selected Towns in New Hamphire's Coastal Zone. Prepared by NH Natural Heritage Inventory. Concord, NH.

New Hampshire Natural Heritage Bureau - Plant Record

Tufted Loosestrife (*Lysimachia thyrsiflora*)

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Demonstrably widespread, abundant, and secure
State:	Listed Threatened	State:	Imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank:	Excellent quality, condition and lanscape context ('A' on a scale of A-D).
Comments on Rank:	New Hampshire's best population.
Detailed Description:	2004: Searched for but not found.2002: Searched for but not found.1989: Thousands of budding plants. 1983: 2 small populations, 11-50 individuals.
General Area:	1989: SNE seepage marsh. Also in red maple swamp. With *Carex rostrata* (beaked sedge), *Acer rubrum* (red maple), *Typha latifolia* (common cat-tail), and *Osmunda cinnamomea* (cinnamon fern). 1983: Where a powerline crosses a branch of a brook. 1989: Occurs in 2 areas of seepage marsh.

Location

Survey Site Name:	Great Bog		
Managed By:	Great Bog		
County:	Rockingham	USGS quad(s):	Portsmouth (4307017)
Town(s):	Portsmouth	Lat, Long:	430228N, 0704804W
Size:	2.8 acres	Elevation:	40 feet

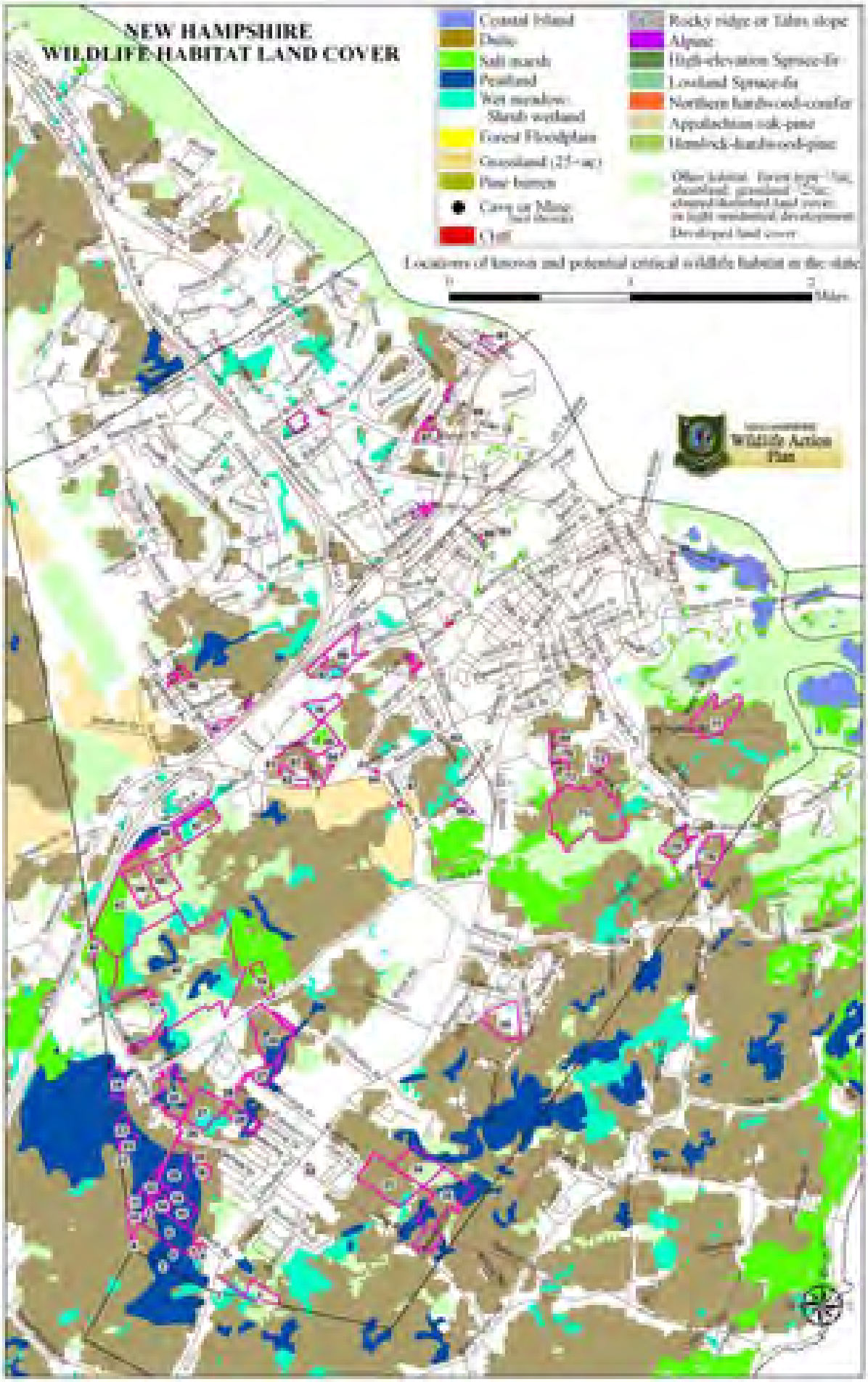
Precision: Within (but not necessarily restricted to) the area indicated on the map.

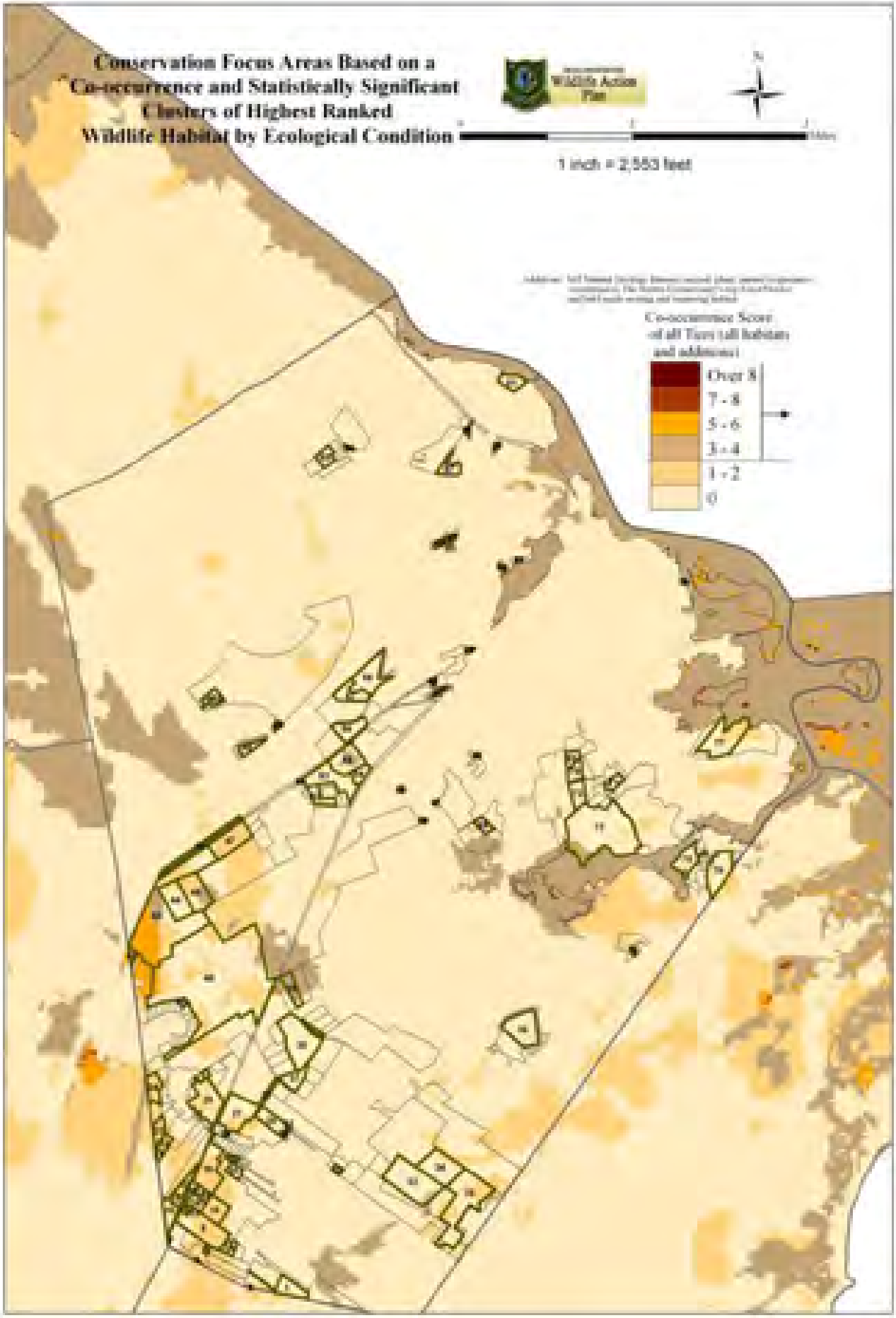
Directions: Great Bog. South and east of crook in powerline right-of-way. At brook crossing of utility line and service line.

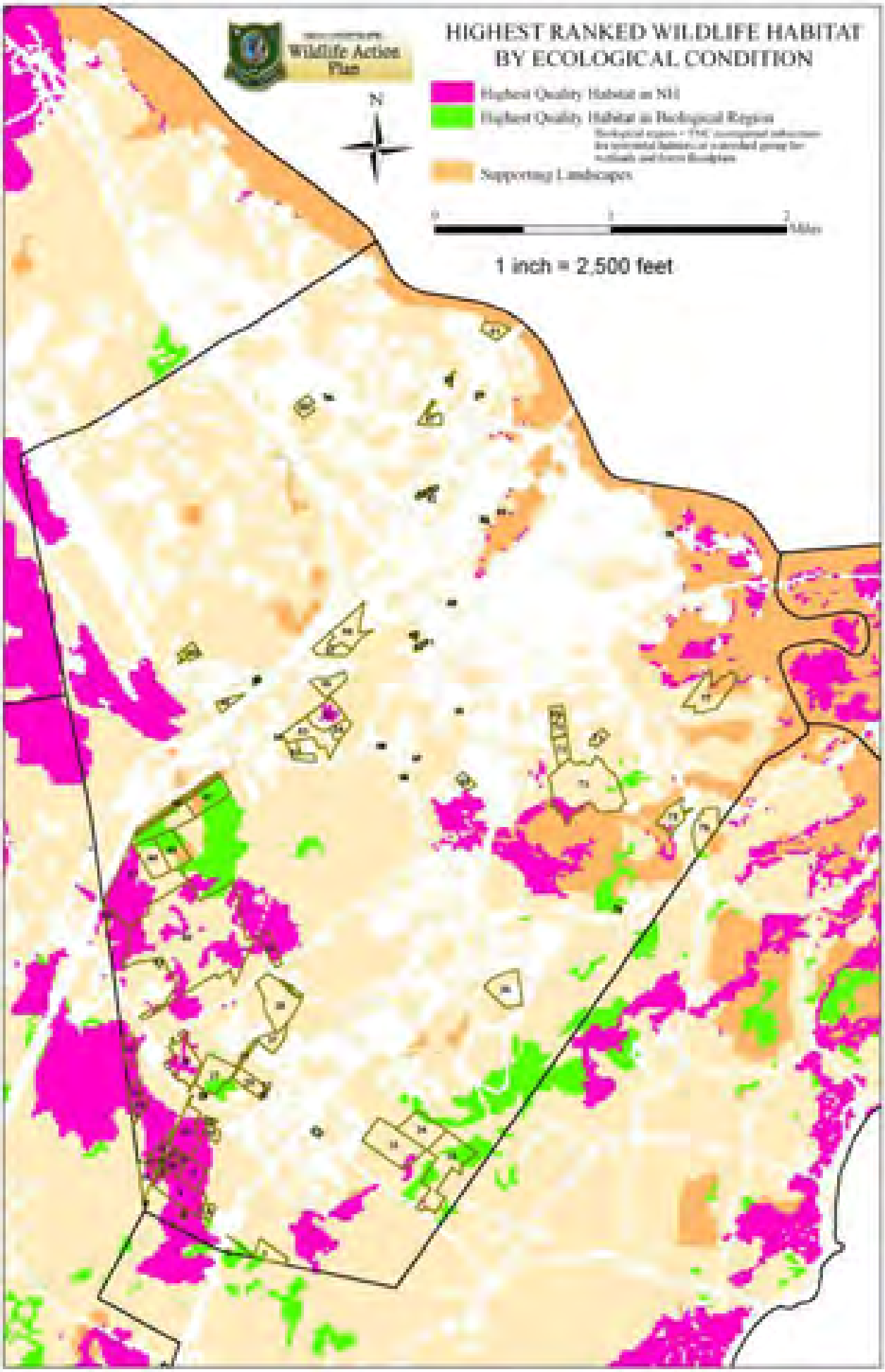
Dates documented

First reported:	1983-06-16	Last reported:	1989-05-30

Pau, Nancy. 2004. Field survey to Great Bog on July 5.


NEW HAMPSHIRE
WILDLIFE HABITAT LAND COVER
Coastal Island
Dune
Salt marsh
Peatland
Wet meadow/
Shrub wetland
Forest Floodplain
Grassland (25+ ac)
Pine barren
Cave or Mine
Cliff
Rocky ridge or Talus slope
Alpine
High-elevation Spruce-fir
Lowland Spruce-fir
Northern hardwood-conifer
Appalachian oak-pine
Hemlock-hardwood-pine
Developed land cover
Locations of known and potential critical wildlife habitat in the state
0
1
2
Miles
Wildlife Action
Plan


Conservation Focus Areas Based on a
Co-occurrence and Statistically Significant
Clusters of Highest Ranked
Wildlife Habitat by Ecological Condition
Wildlife Action Plan
N
1 inch = 2,553 feet
Co-occurrence Score
-of all Tiers (all habitats
and additives)
Over 8
7 - 8
5 - 6
3 - 4
1 - 2
0


Wildlife Action Plan
HIGHEST RANKED WILDLIFE HABITAT BY ECOLOGICAL CONDITION
Highest Quality Habitat in NH
Highest Quality Habitat in Biological Region
Supporting Landscapes
N
0
1
2
Miles
1 inch = 2,500 feet

The Sponsors of the
New Hampshire Register of Big Trees

Proudly present this certificate of appreciation to

Earle Chase

As nominator of the following County Champion Big Tree, as of this date
the largest reported specimen of its species growing in your county

Fraxinus pennsylvanica	Green Ash
Scientific Name	Common Name
84 feet	100 inches
Height	Circumference
44 feet	Portsmouth / Rockingham
Average Crown Spread	Town & Country
195	September 14, 2009
Total Points	Date

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