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## Freshwater Wetlands Inventory Outreach Activities, West, M

West Environmental, Inc.

Carex Ecosystem Sciences

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# FRESHWATER WETLAND MITIGATION INVENTORY For NINETEEN COASTAL COMMUNITIES

A Final Report to

The New Hampshire Estuaries Project

Submitted by

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**New Hampshire  
Estuaries Project**

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## I. ACKNOWLEDGEMENTS

The Project Team received assistance from all of the nineteen Conservation Commissions that helped to make this inventory possible. The Conservation Commissions will also be critical to the future implementation of the mitigation sites identified for this project.

This project also received significant assistance from the Advisory Committee which included the following members:

Ted Diers	NH Coastal Program, Office of Energy and State Planning
Jen Drociak	NH Coastal Program, Office of Energy and State Planning
William Hauser	NH Department of Transportation
Jennifer Hunter	NH Estuaries Project
Ellen Snyder	NH Cooperative Extension – Biodiversity Program
Lori Sommer	NH DES Wetlands Bureau

This committee guided the inventory and provided crucial input in the development of site selection methodology and in final report preparation.

The Project Team also received assistance from the NH Fish& Game Department’s Non-Game Program and NH Department of Environmental Services Wetlands Bureau. Gove Environmental Services, Inc. provided draft information from their City-wide Wetlands Inventory, Portsmouth, NH conducted for the City of Portsmouth.

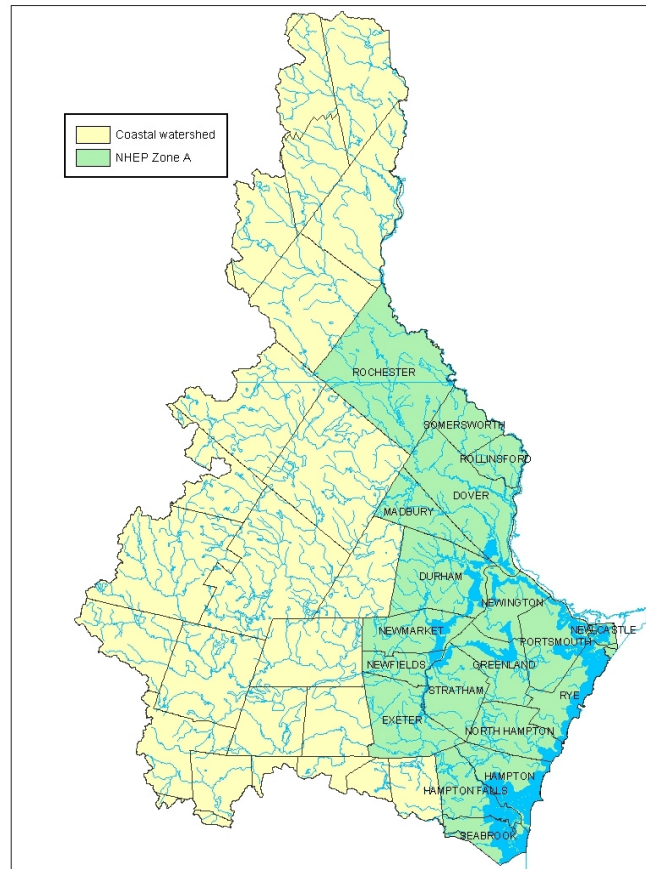
## II. INTRODUCTION

### a. PROJECT OVERVIEW

West Environmental, Inc. together with Carex Ecosystem Sciences and Doucet Survey, under contract with the NH Estuaries Project, have identified and mapped potential freshwater wetland mitigation opportunities in nineteen (19) communities that border coastal or estuarine habitats.

The list of communities includes:

Dover	Hampton Falls	Newmarket	Rye
Durham	Madbury	North Hampton	Seabrook
Exeter	New Castle	Portsmouth	Somersworth
Greenland	Newfields	Rochester	Stratham
Hampton	Newington	Rollinsford	



The following table (Table B) includes the entire inventory of all field investigated potential mitigation sites for all of the nineteen coastal communities.

Table B: Inventory of All Field Investigated Potential Sites for all 19 Communities

Site ID	Name/ Resource	Location	Mitigation Proposed	Approx. Size (Ac)	Site Summary
<b>DOVER</b>					
DR2	Cocheco River	Fourth St.	Preservation/ Restoration	18/1	Preservation of this Cocheco River floodplain area would protect wildlife and help to protect adjacent wetlands and their respective functions. Restoration area is a clearly filled wetland adjacent to high value floodplain wetland. High probability of success.
DR3	Berry Brook Headwater Area	Central Ave. South of Glenwood Ave. intersection	Preservation/ Restoration	3/1.5	Though small, this restoration would result in increased floodflow alteration, water quality renovation, and improved wildlife habitat.
DR4	Bellamy River	South of Knox Marsh Rd.	Preservation	30	Ephemeral ponding in oxbows may serve as vernal pool habitat. Large undeveloped buffer for Bellamy River. Large unfragmented habitat for wildlife.
DR8	Blackwater Brook	Along Blackwater Bk. From Spaulding Tpk. South to Transmission Lines	Preservation	225	High value riparian corridor with linkages to other protected lands. Includes reported NHHNI elements.
DR9	Cocheco River	Along north side of Cocheco River between Watson Rd. and Spaulding Tpk.	Preservation	125	High value riverine system with very little development. High value walking trail and multiple scenic viewing points.
DR11	Wildlife Habitat, Johnson Creek Headwaters	Between Mast Rd., Back River Rd., and NH Rte. 108	Preservation	66	Large isolated wetland in well developed area with good upland buffer remaining.
<b>DURHAM</b>					
DM1	Oyster River	Mill Pond, west side of NH 108 as it crosses the Oyster River	Preservation	18	Mill Pond at confluence of habitat types has relatively high wildlife value given the "urban" setting. Plant growth on silt deposits has increased habitat diversity. NHHNI element(s) reported. High "urban quality of life"- used for skating, small picnic area. Located in an area with high development pressure combined with high aesthetic value. Much of the buffer has already been developed.

Table B (Cont.)

Site ID	Name/ Resource	Location	Mitigation Proposed	Approx. Size (Ac)	Site Summary
<b>DURHAM (Cont.)</b>					
DM3	Large Wetland Complex	Between Dame Rd. and Bay Rd.	Preservation	415	Highly valuable wetland in a large unfragmented area that is being developed for residential homes. Site lies between other conservation lands and contains NHNHI element(s). Should be a conservation priority.
DM4	Crommet Creek	South side of Longmarsh Rd.	Preservation	30	High value wetland adjacent to protected lands-high development potential. Includes valuable wildlife habitat and NHNHI elements.
DM6	Wetland w/NHNHI elements	East side of Durham Pt. Rd. near outfall of Crommet Creek into Great Bay	Preservation	25	Human made pond (small dam is in need of maintenance) & NHNHI element(s) but portions of upland buffer are already developed. Potential upland buffer also borders estuary.
DM7	Vernal Pool Complex w/NHNHI elements	East side of Durham Pt. Rd. near intersection with Longmarsh Rd.	Preservation	67	Northern portion of site is protected by a conservation easement. Southern portion could not be fully evaluated, but has reported NHNHI element(s) and a vernal pool complex.
DM12	College Brook	Mill Road Plaza, Mill Rd.	Preservation/ Restoration and/or Creation	2.5/0.5	Construction of plaza parking lot resulted in filling of wetlands along college brook. Now untreated runoff as well as snow in winter from a ~5 acre parking lot is collected in catch basins and discharged directly into the brook. Restoration/construction of treatment wetland appears feasible but would require a compact design due to limited space.
DM15	Oyster River	Mast Rd.	Restoration/ Preservation	0.2/130	Restoration includes potential culvert replacement. Very high value riparian corridor and upland buffer in an area of high development pressure. Recommended priority upland buffer preservation target.
<b>EXETER</b>					
ER1	Ash Brook	Hampton Road & Route 11	Restoration	0.2	This site proposes to replace a culvert that is restricting flow in a Prime Wetland and a small access road.



Table B (Cont.)

Site ID	Name/ Resource	Location	Mitigation Proposed	Approx. Size (Ac)	Site Summary
<b>EXETER (Cont.)</b>					
ER1(A)	Ditched Ag Field	Powder Mill	Creation	2.5	This site proposes to convert a ditched agricultural field adjacent the Exeter River from an upland meadow to a shallow marsh/scrub-shrub wetland system.
ER4	Bloody Brook Headwaters	Off Watson Rd	Restoration	0.2	This site would include the installation of a wooden bridge wetland crossing in an area where ATV use of a trail is degrading water quality in a Prime Wetland.
ER6	Dudley Brook	Dogtown Road	Restoration	0.2	A potential restoration project for this site would include replacing an undersized culvert at a Prime Wetland crossing which would improve biological connectivity.
ER7	Bloody Brook / Little River	Route 101	Preservation	100	This stream system abuts the Corner Farm and is a very high value system with a Great Blue Heron rookery and two Prime Wetlands that are hydrologically connected. This preservation site includes 4,000 LF of Bloody Brook and 100 acres. This is a high value protection area.
ER10(A)	Squamscott River Tributary	DPW, Newfields Rd	Creation	0.5	This site would include the construction of a stormwater treatment wetland in an area where untreated runoff from a town DPW facility drains into a tributary to the Squamscott River.
<b>GREENLAND</b>					
GD3	Winnicut River Corridor (North)	Off Winnicut Rd	Preservation	30	High value river corridor with NH Natural Heritage elements and existing camp area. Upland buffer serves as resource protection as well as aesthetic and educational potential.
GD3(A)	Winnicut River drainage swale	Off Winnicut Rd	Restoration	0.25	This restoration site would help to stabilize a small drainage between Winnicut Rd and the River where water quality degradation is present with increased sedimentation and road runoff.

Table B (Cont.)

Site ID	Name/ Resource	Location	Mitigation Proposed	Approx. Size (Ac)	Site Summary
<b>GREENLAND (Cont.)</b>					
GD4	Tributary to Great Bay	South of Great Bay Rd	Preservation	115	High upland buffer preservation value. Headwaters of an unnamed stream in an area of high development pressure.
GD5	Thompson Brook	Willow Brook & Portsmouth Ave	Preservation	60	This site would protect upland buffers adjacent to Thompson Brook, a tributary to the Winnicut River. Moderate preservation value
GD6	Winnicut River Corridor (South)	Off Winnicut Rd	Preservation	75	This upland buffer would protect 3,000 LF of the Winnicut River corridor covering diverse upland habitat including hayfields, scrub-shrub and mixed forest cover types. Linkages to other conservation lands. High development pressure.
GD7	Winnicut Headwater Tributaries	Off Rte 151	Preservation	340	This large area would include protection of upland buffers adjacent to the central Winnicut River system at the confluence of several tributaries. This area has high protection value.
GD9	Borrow Pit	By Recreation Fields	Creation	0.25	This wetland creation/enhancement sites location provides high wetland value for education, aesthetics and recreational as well as enhance wildlife habitat function.
<b>HAMPTON</b>					
HN1	Old Mill Pond	North Shore Rd	Preservation	30	Some of the buffer areas along this pond has been developed. The scrub-shrub area surrounding the upper portions of the pond perform water quality functions as well as other functions. This is directly upstream a tidal pond.
HN2	Lamprey Pond/Nilus Brook Headwaters	Woodland Rd	Preservation	88	This area provides 88 acres of potential preservation in a relatively undeveloped portion of town. Diverse wetland types, open water, stream, scrub-shrub, forested and emergent.

Table B (Cont.)

Site ID	Name/ Resource	Location	Mitigation Proposed	Approx. Size (Ac)	Site Summary
<b>HAMPTON (Cont.)</b>					
HN3(A)	Taylor River (South)	Towle Farm Rd Area	Preservation/Enhancement	175	This ecologically diverse system, with approximately one mile of river, should be protected through buffer conservation and public education including lawn Best Management Practices for homeowners along the river because of nutrient loading within the system.
HN3(B)	Taylor River (North)	Towle Farm Rd Area	Preservation	80	This section of the river is 0.8 miles long. This system has NH Natural Heritage Inventory potential elements.
HN6	Old River Headwaters	101C and South Rd	Preservation	87	This large forested/ scrub-shrub system surrounds the headwaters of Old River which is a tributary to Taylor River.
HN8	Old River Marsh	Wolf Hill Area	Preservation	300	This tributary to Old River and Taylor River serves valuable functions of water quality treatment and high value wildlife habitat. This is one of the largest undeveloped blocks in Hampton.
<b>HAMPTON FALLS</b>					
HF8	Taylor River (Restoration)	Curtis Road, Exeter Road	Restoration	0.2-0.5	This site is an old washed out road crossing of the Taylor River and would include culvert replacement or road removal if feasible. This site is hydrologically connected to HF16.
HF8(A) &(B)	Taylor River (South)	Drinkwater Rd	Restoration/Preservation	0.2/86	These sites include a potential culvert replacement HF8(A) and potential upland buffer preservation HF8(B) of the Taylor River Corridor and a tributary. There is approximately 3,000 LF of stream in this area.
HF11	Grapevine Run	Route 88	Creation/Preservation	0.5/60	Water quality protection by creation of detention pond or other mitigation efforts. This site also provides high value upland buffer preservation of Grapevine Run along one mile of stream corridor.

Table B (Cont.)

Site ID	Name/ Resource	Location	Mitigation Proposed	Approx. Size (Ac)	Site Summary
<b>HAMPTON FALLS (Cont.)</b>					
HF12	Kenny Brook	Off Town Hall Rd	Preservation	32	Kenny Brook corridor is a tributary to the Taylor River. This 0.5 mile riparian system and adjacent upland buffer provides valuable wildlife habitat and educational value based on proximity to schools.
HF13	Hampton Falls River	New Zealand Rd, Kensington Rd	Preservation	42	This river corridor ties into site SK3 in Seabrook, another preservation site listed in this report. It provides 0.6 miles of stream protection that is a wildlife habitat function.
HF15	The Cove	West of Rte 88	Preservation	230	This is the largest isolated land area in Hampton Falls. This 230 acre preservation site has NH Natural Heritage Inventory elements and abuts existing conservation land. This is a large diverse system.
HF16	Taylor River (North)	South of Sandborn Road	Preservation	80	This 1 mile portion of the Taylor River system which merits protection of the buffer. There are some invasives, however, the system is diverse and has nice transition of habitat and floodplains. Hydrologically connected to HF8.
<b>MADBURY</b>					
MY2	Forested Wetland w/NHNHI Elements	Hayes Rd. near Durham and Barrington town lines	Preservation	40	Wetland forms the head of a stream that provides wildlife habitat. It includes reported NHNHI element(s). Portions of the buffer are already developed along the eastern edge.
MY3	Borrow Pit above large aquifer	South of Old Stage Road in borrow pit	Creation	5	Evidence of wetland hydrology in base of pit. Site is an active borrow pit and may not be available until it is ready for reclamation.
MY6	Forested/ Shrub Swamp	Along unimproved section of Jenkins Rd. to Durham town line	Preservation/ Restoration	28/0.5	Valuable wetland within large unfragmented habitat. Some ATV damage along road and trails could be restored.

Table B (Cont.)

Site ID	Name/ Resource	Location	Mitigation Proposed	Approx. Size (Ac)	Site Summary
<b>MADBURY (Cont.)</b>					
MY7	Borrow Pit adjacent to Barbadoes Pond	North of Old Stage Rd. in borrow pit	Preservation/ Creation	82/13	Active borrow pit may not be available, though pit appears nearly exhausted. Creation/preservation would increase value and protection of Barbadoes Pond and city of Dover drinking water supply well. Excavation of a large pond appears to have already been initiated.
MY8	Bellamy River	Along Bellamy River between Mill Hill Rd. & NH Rt. 155	Preservation	250	High value, relatively undeveloped riparian corridor with many habitat types.
MY9	Beards Creek	Madbury Rd. between road and B&M railroad	Restoration	1	Filled wetland with 4-5 feet of fill. Adjacent to benchmark wetland which includes a high prevalence of invasive species. Restored swamp would be expected to resist invasives as a canopy develops. High potential for success.
<b>NEW CASTLE</b>					
NE1	Freshwater marsh	Wentworth Rd	Restoration/ Preservation	0.2/ 6	Valuable wetland but most of buffer is developed. Restoration opportunities include removal of 1/4 acre of historic fill (lawn) and installation of an oversized box culvert to allow for wildlife movement.
NE2	Marsh & shrub swamp	Pit Lane	Restoration/ Preservation	0.2/3	Wetland was once connected to NE4 & NE1. Installing oversized box culverts would allow wildlife passage and increase habitat value as would protection of the forested buffer.
NE3	Quarry and vernal pool	Pit Lane	Restoration/ Preservation	0.25- 0.5/ 3	This is a partially re-filled old quarry that holds ~2' of water and appears to function as a vernal pool. There is an intermittent outlet ditch that drains the pool to a nearby tidal marsh. Good restoration and upland buffer potential.
NE4	Shrub Swamp & Marsh	Pit Lane	Restoration/ Preservation	0.5/3	Valuable wetland in close proximity to estuary. Some wildlife value but buffer is mostly developed. Wetland has had some historic impact from filling and includes invasive plant species. An oversized box culvert may facilitate wildlife movement.

Table B (Cont.)

Site ID	Name/ Resource	Location	Mitigation Proposed	Approx. Size (Ac)	Site Summary
<b>NEW CASTLE (Cont.)</b>					
NE5	Forest & marsh habitat	Wild Rose Lane	Restoration/ Preservation	0.5/15	Highly valuable wetland in close proximity to the ocean. Most of buffer has been developed, but some remains for protecting. Phragmites invasion could become exacerbated by disturbance from ATV's. Many standing snags increase wildlife habitat value.
<b>NEWFIELDS</b>					
NS1	Piscassic Tributary/ Bald Hill Swamp	Off RR Bed north of Piscassic Rd	Preservation	220	This mitigation site would involve protecting buffers to a large scrub-shrub wetland complex that is presently undisturbed. It has potential NHHI elements and is the largest wetland complex in Newfields. This site is adjacent to NT10 and was identified in the NHEP Piscassic River Wildlife habitat study as a Priority Area.
NS2	Piscassic Ice Pond	Off Rte 87, Piscassic Rd	Preservation	138	This preservation site would protect buffers to a historic ice pond on the Piscassic River. Land protection could tie into existing protected land upstream.
NS4	Tributary to Squamscott River	Off Rte 85, South of Piscassic	Preservation	140	This site involves protection of 1.5 miles of stream system buffers for a tributary to Squamscott River. Some conservation land is present in upper portions of this stream system.
NS5	Piscassic River	Off RR Bed and Old Lee Area	Preservation	120	This proposed preservation area includes approximately 1.5 miles along the Piscassic River and its upland buffers. New development in the area threatens to fragment this river corridor.
NS7	Potential NPS Pollution, Squamscott River	Off Main St, Adjacent RR Track	Creation	0.5	This site would treat stormwater runoff from industrial development prior to entering the Squamscott River. It is an important water quality protection area.

Table B (Cont.)

Site ID	Name/ Resource	Location	Mitigation Proposed	Approx. Size (Ac)	Site Summary
<b>NEWFIELDS (Cont.)</b>					
NS8	Potential NPS Pollution, Squamscott River	Downtown Newfield Site	Creation	0.25	Installation of high tech catch basins for urban runoff to Squamscott River. Limited area for wetland creation. Important water quality protection area.
NS9	State Garage, adjacent Tributary Squamscott River	Rte 108	Restoration	0.25	The wetland/stream potentially receives runoff from Highway shed. Restoration site would involve wetland detention basin and stream bank restoration.
NS10	Critical Habitat, Piscassic Floodplain	Rte 108	Preservation	2	This site would provide upland buffer protection to a forested floodplain portion to the Piscassic which provides critical turtle habitat.
<b>NEWINGTON</b>					
NN1	McIntyre Brook (Ditch)	Newington Rd	Restoration	18	This stream (approximately 3000LF) has been historically ditched and dammed by the Federal Government and it receives runoff from Pease Runways. Water quality in the ditch appears degraded. This project would require a hydrologic redesign of the stream to restore its natural function and flow.
NN2	Fill Area, Airport Rd	Airport Rd	Restoration	0.5	This is an old fill area at the end of a road. The wetland fill is less than 3 feet deep and restoration would be an easy task with wetlands surrounding the fill on three sides.
NN3	Knight Brook	Fox Point Rd	Preservation	55	This large-centrally located wetland system is surrounded by a variety of undeveloped upland habitats. Preservation of the buffers to this wetland would provide protection of a high functioning riparian wetland system.
NN4	Ditch System	Nimble Hill Rd	Restoration	10	Approximately 1,000 LF of stream to be restored. This project would require redesigning an existing ditch system that has steep side slopes and deep scouring to a natural state with a pool-riffle stream complex.

Table B (Cont.)

Site ID	Name/ Resource	Location	Mitigation Proposed	Approx. Size (Ac)	Site Summary
<b>NEWINGTON (Cont.)</b>					
NN6	Paul Brook	West of Spaulding Turnpike	Preservation	30	This project proposes to protect a wetland complex and its upland buffers which is home to an endangered plant species.
NN8	Ditch System	Merrimack Rd	Restoration	25	2,800 LF of stream to be restored. This project would require a hydrologic study of the existing ditch system to convert it to a natural stream with pools and riffles. The confluence with Pickering Brook will require a unique drainage solution for this system.
NN9	Pickering Brook	Merrimack Rd	Restoration	0.2	This site would include removing an old road from a wetland and installing a boardwalk if needed.
<b>NEWMARKET</b>					
NT1	Moonlight Brook (lower section)	Route 108, Downtown	Creation	1.5	This is 1920 linear foot urbanized stream system directly upstream of the Lamprey River. This site has high value for water quality protection. This may require high tech catch basins due to limited space.
NT2	Moonlight Brook Headwaters	Off Rte 152	Creation	0.5	Wetland Detention Basin construction site for water quality protection (potentially on High School property). This 23 acres watershed area with 0.6 miles of Brook receives runoff from ball fields, parking lots and roads. "Low salt" use area recommended.
NT3	Filion Swamp	Packers Fall Rd	Preservation	16	Potential for buffer preservation, although most of the buffer has been developed, permanent protection is desirable.
NT4	Tuttle Swamp (east)	Rte 152	Preservation	23	This section of Tuttle Swamp which is a large diverse proposed Prime Wetland system, is hydrologically connected under Rte 152. Upland buffer preservation would help to protect this high value wildlife habitat.
Table B (Cont.)					
Site ID	Name/ Resource	Location	Mitigation Proposed	Approx. Size (Ac)	Site Summary



NEWMARKET (Cont.)					
NT5	Piscassic River	Ash Swamp Rd	Preservation	140	Two miles of river corridor with approximately 140 acres of buffer. This is a major wildlife travel corridor and provides fishing sites. Several forested floodplain areas are also present.
NT6	Follett's Brook	West of Packers Brook Rd	Preservation	22	High buffer preservation value with 2,200 linear feet of stream. Excellent aquatic habitat for wildlife. Some upland areas are already in conservation.
NT8	Tuttle Swamp	Rte 152/Ash Swamp Rd	Preservation	650	This wetland complex is the largest swamp in this town and has rare plant and rare animal species.
NT9	Ash Swamp	Ash Swamp Rd	Preservation	85	Expand on existing open space conservation land, especially agricultural fields near red maple swamp. Prime Wetland candidate.
NT10	Piscassic River/Doe Farm Rd	Grant Rd, South of Doe Cemetery	Preservation	184	This is a Prime Wetland candidate. It is a very large marsh system with a diversity of wetland types. Noted in NHEP Piscassic River Wildlife Habitat Study as Priority Area.
NT11	Old Neal Mill Culvert	Old Neal Mill Rd	Restoration	0.5	This site is considered for culvert replacement to increase wildlife movement between Piscassic River Corridor and unfragmented land to the west.
NORTH HAMPTON					
NHN1	Mill Pond Historic Dam	Mill Pond Rd	Restoration	0.5	This site was recommended by North Hampton Conservation Commission as resource to restore for historic reasons.
NHN2 (A, B, C)	Lovering Road Culverts	Lovering Road	Restoration	0.25 ea	This site has a significant need for increased culvert sizes and wetland swale restoration to better accommodate flood storage, preserve water quality and increase wildlife mobility
NHN5	Highway Garage off ad	South Rd	Restoration	6	This site provides high restoration value for enhanced water quality protection and invasive species management.
Table B (Cont.)					
Site ID	Name/Resource	Location	Mitigation Proposed	Approx. Size (Ac)	Site Summary

NORTH HAMPTON (Cont.)					
NHN6	Manure Piles, Fuller Farm	Off Maple Rd	Restoration	0.25	Manure degrades water quality and adjacent wetlands. Restoration of existing resources and Best Management Practices for manure management is appropriate for this site.
NHN8	Little River Corridor Headwaters	North Road	Preservation	200	This is a high wildlife value wetland. Conservation lands are nearby as well as a school which would provide high recreation and education value. The upland buffer has bull pines and historic stone walls.
NHN9	Upper Winnicut River Marsh	West of Rte 95, Off Walnut Rd, to South Rd	Preservation	200	Preservation should be focused to the west of this system, the east side of Pine Hill. There are adjacent conservation lands and high-value wildlife habitat.
PORTSMOUTH					
PH1	Tributary to Berry's Brook	East of Lafayette Rd., north of Lang Rd.	Preservation	37	Valuable wetland with reported NHNHI element(s) and part of a very large unfragmented area associated with Berry's Brook. Preservation area is associated within a wetland proposed for "prime " designation. Little undeveloped upland buffer remains in this area, however.
PH2	Berry's Brook	North and south of Land Rd.	Restoration/ Preservation	0.2 ea/ 75	Riparian wetland in an area of high development pressure. Wetland includes NHNHI element(s), large unfragmented areas, and is proposed as a "prime" wetland. Preservation of remaining upland buffers and replacement of the existing culverts under Lang Rd. are proposed.
PH3	Packers Bog	East and west of Ocean Rd., south along town line	Preservation	50	Highly valuable wetland with linkages to adjacent conservation land but some areas have little remaining upland buffer. Dead end road off Martha Terrace has high development potential and would be good upland buffer preservation. Wetlands include reported NHNHI element(s).
Table B (Cont.)					
Site ID	Name/ Resource	Location	Mitigation Proposed	Approx. Size (Ac)	Site Summary

PORTSMOUTH (Cont.)					
PH4	Berry's Brook	West of Lafayette Rd. to B&M railroad south to town line	Restoration/ Preservation	1 / 70	High value wetland with critical habitats along the Berry's Brook riparian corridor and linkages to other conservation land. High potential upland buffer preservation value and small restoration projects. Located in a commercial area with high development pressure.
PH6	Marsh and filled swamp	East of B&M railroad between Banfield Rd. and Ocean Rd.	Restoration/ Preservation	0.5 / 20	Originally targeted filled wetland is in use for parking lot, but ~0.5 acres of fill near overflow parking lot at entrance could be restored and upland preserved south of postal facility.
PH9	Disturbed wetland connected to Great Bog	Banfield Rd.	Restoration	5	Valuable wetland with construction and vehicle debris that could be removed relatively easily with good success.
PH10	Berry's Brook	Lafayette Rd.	Restoration	10	Wetland treats runoff from commercial areas along Lafayette Rd. and is part of a large unfragmented area along Berry's Brook. Primary restoration would be to remove apparent area of fill behind businesses.
PH13	Unnamed tributary to Piscataqua River	Shopping plaza on Lafayette Rd	Creation	1	Adjacent wetland is highly degraded from polluted runoff and has been colonized by purple loosestrife. Creation of a treatment wetland to pretreat runoff could help restore the health of the wetland.
ROCHESTER					
RR1	Little Long Pond	North of NH Rt. 202 at town line with Barrington	Preservation	66	Shoreline wetland has some low density development in the buffer off of Route 202, but the northwestern side is undeveloped (as is most of Little Long Pond). Includes NHNHI Element(s).
Table B (Cont.)					
Site ID	Name/ Resource	Location	Mitigation Proposed	Approx. Size (Ac)	Site Summary

ROCHESTER (Cont.)					
RR3	Salmon Falls River	Salmon Falls Rd. and Walnut Grove Rd., east to Salmon Falls River	Preservation	330	One of the most valuable areas for upland preservation in this survey. Most of buffer remains undeveloped despite high likely development pressure along the river. Includes /abuts Mast Point Dam Recreation Area. Includes NHNHI element(s).
RR6	Heath Bog	Eastern Ave. and Wakefield St.	Restoration/ Preservation/ Creation	2 / 175 / 0.2	High value wetland has little surrounding upland buffer that remains undeveloped. Easements could prevent further encroachment. Restoration of fill areas will improve water quality and ecological integrity. A stormwater treatment system or created wetland would help protect the Heath Bog. Restoration of an apparently unused portion of the mall parking lot could require significant compensation.
RR7	Cochecho River	Water treatment facility/ Pickering Rd.	Restoration/ Preservation	40 / 250	Potentially high value human-made wetlands (abandoned sewage lagoons) along the Cochecho River riparian corridor. Primary value is as wildlife habitat and as a reported nesting area for endangered pied-billed grebe. Further evaluation of potential contaminants is needed to determine if further restoration is feasible. Removal of berms along river could restore floodplain habitat. The full mitigation potential of this site is complex and will require a more detailed analysis.
RR10	Tributary to Isinglass River	South of Flagg Rd.	Restoration/ Preservation	0.5/ 40	Riparian corridor to the Isinglass River. Much of buffer has been developed.
RR12	Headwaters of Blackwater Brook	Quail Drive	Preservation	80	Highly valuable wetland provides habitat for an active heron rookery located in an area of high commercial and residential development pressure. Preservation area would be most valuable if combined with land from Somersworth-see SH3.
Table B (Cont.)					
<b>Site ID</b>	<b>Name/ Resource</b>	<b>Location</b>	<b>Mitigation Proposed</b>	<b>Approx. Size (Ac)</b>	<b>Site Summary</b>

ROLLINSFORD					
RD1	Rollins Brook	Behind hospital, north of Garrison Hill	Restoration/ Preservation	60 / 200	Large unfragmented wetland. Extensive ditching may not be effectively draining the area. Ditches have not been maintained and funnel into a single ditch. May provide potential for restoration sites. Evaluation of ditches during other times of the year could provide additional insight.
RD2	Tributary to Salmon Falls River	Route 4 and Sligo Rd.	Preservation	50	Includes NHNHI element(s) and linkage to Salmon Falls River. Pond observed intercepting silty runoff. Valuable wetland located at a key position in the landscape.
RD3	Salmon Falls River	Foundry Rd.	Restoration/ Creation/ Preservation	3 / 0.5 / 9	Potentially high value floodplain wetland on the Salmon Falls River. Degraded wetland with fill, non-point source pollution, and purple loosestrife invasion. Restoration of filled ball field could require relocation of the field.
RD4	Fresh Creek	Old Mill Lane	Restoration/ Preservation	0.2 / 70	Habitat as a riparian corridor would be improved by the installation of oversized/arched culverts that would provide linkage across multiple freshwater habitats to estuary habitat. Route 4 currently presents a 25'+/- high barrier to wildlife movement.
RD5	Rollins Brook	Route 4 and Old Mill Lane	Restoration/ Preservation	0.2 / 330	Multiple habitats, high value wetland. Replacement of culverts under Route 4 would provide for a better corridor across multiple freshwater wetland habitat types to estuary habitat.
RD6	Salmon Falls River	Sligo Road	Creation	0.5	Farming operation with silage and manure piles with runoff observed flowing directly into the Salmon Falls River. Treatment wetland would greatly improve water quality as would allowing natural vegetation to regenerate along the river.
Table B (Cont.)					
<b>Site ID</b>	<b>Name/ Resource</b>	<b>Location</b>	<b>Mitigation Proposed</b>	<b>Approx. Size (Ac)</b>	<b>Site Summary</b>

<b>ROLLINSFORD (Cont.)</b>					
RD7	Degraded wetland	Somersworth Road	Restoration	1	Apparent recent and historic filling associated with a junkyard located on or adjacent to a wetland raises concern over water quality issues. Portions of restoration could be accomplished relatively easily provided there is no hazardous contamination of soils. Full restoration could involve relocation of the junkyard.
<b>RYE</b>					
RE2	Berry's Brook	Area west of US 1	Restoration/ Preservation	0.5 / 160	Large wetland with a degraded Atlantic white cedar community. Site provides linkages to other conservation lands.
RE3	Forested swamp with NHNHI Element(s)	East of Brackett Rd. between Washington Rd. and Wallis Rd.	Restoration/ Preservation	0.5 / 14	This wetland links the adjacent estuary with upland habitat. Much of the proposed upland buffer has been developed. An area of old cottages could be restored either as wetland or as an upland "island" habitat for wildlife value. Includes NHNHI element(s).
RE4	Unnamed brook	West of Brackett Rd between Washington Rd. and Wallis Rd.	Preservation	30	Southern side fragmented by a long driveway crossing. Tidal marsh appears more extensive than shown on NWI map. Much of the upland buffer is already developed/ fragmented. Important wetland buffer, the estuary, and has reported NHNHI element(s). Connects to conservation lands on eastern side of Brackett Rd.
Table B (Cont.)					
Site ID	Name/ Resource	Location	Mitigation Proposed	Approx. Size (Ac)	Site Summary
<b>RYE (Cont.)</b>					

RE5	Berry's Brook	East of Sagamore Rd., north of Clark Rd.	Restoration/ Preservation	0.2 / 40	Most of potential upland buffer along Sagamore Rd. is already developed. Highly valuable wetland includes a large area of floodplain associated with Berry's Brook and reported NHNHI element(s). Significant buffer area remains in eastern portion. Culvert replacement recommended to facilitate wildlife movement under Sagamore Rd.
RE6	Witch Creek	Inside New Castle Rd., Sagamore Rd. and Pioneer Rd.	Restoration/ Preservation	0.5 / 15	Wetlands with reported NHNHI element(s). Site is adjacent to golf course. If NHNHI element(s) are confirmed, there could be restoration of wetlands impacted by golf course runoff. Preservation or restoration would be difficult as the golf course would be affected.
RE8	Partially filled quarry and pond	New Castle Rd.	Restoration	10	This is a partially filled rock quarry. This potentially high value wetland links adjacent conservation lands and Sagamore Creek. Site is in an area of high development pressure adjacent to golf course and views of the estuary. Fill is old and includes some trash that may involve contamination issues. Appropriate measures may be needed to prevent phragmites invasion.
<b>SEABROOK</b>					
SK2	Brown's River Tributary	Route 1 and Seabrook Station	Creation	0.2	Existing shopping center parking lot drains directly into tributary to Brown's River without treatment. Project proposes to build a wetland detention basin to detain and treat stormwater runoff.
SK3	Hampton Falls River/Gove	Mill Lane	Preservation	67	This high-value, large wetland system has a variety of adjacent upland habitat types that could be protected as buffers and for well head protection.
Table B (Cont.)					
<b>Site ID</b>	<b>Name/ Resource</b>	<b>Location</b>	<b>Mitigation Proposed</b>	<b>Approx. Size (Ac)</b>	<b>Site Summary</b>
<b>SEABROOK (Cont.)</b>					

SK3(A)	Hampton Falls River Municipal Well Site	Mill Lane	Restoration	0.5	This project proposes to restore excess wetland fill in a high value wetland that was placed for a municipal well site
SK4	Shepherd Brook	Mill Creek	Preservation	55	This reasonably large forested drainage system has upland areas and feeds into a salt marsh system.
SK5	Shepherd Brook Headwaters	Route 1, to the east	Creation	0.5	The shopping center parking lot forms the headwaters to Shepherd Brook. Proper stormwater management would significantly improve the water quality of this freshwater tributary to a salt marsh.
SK6	Farm Brook	Dams Rd	Restoration	0.2/ea	This centrally located stream has a series of three (3) road crossings that fragment the hydrology of this system. This project would evaluate each crossing and determine the appropriate culvert to be used.
SK7	Foote Creek	So. Main Street	Preservation	26	This is a relatively large undeveloped track that borders two separate stream systems to protect two wetland resources. Noteworthy unique sassafras stand on site.
<b>SOMERSWORTH</b>					
SH1	Peters Marsh Brook, Willand Pond	North side of Willand Pond north along Peters Marsh Brook	Restoration/ Preservation	0.25 / 60	Highly valuable wetland abuts conservation lands and is a portion of a wetland corridor from Willand Pond to the Salmon Falls River. Area reportedly includes NHHNI element(s). Damage from ATV use could be restored. Restricting ATV access may be part of ongoing trail renovation project.
SH3	Blackwater Brook	Gonic Rd. and Old Rochester Rd	Restoration/ Preservation	0.2 ea. / 340	Large highly valuable riparian corridor with multiple habitat types, a NHHNI exemplary community, and an active heron rookery. Located in an area with very high development pressure. In addition to upland buffer preservation, restorations could include removal of wetland fill, replacement of culverts, remove junk from upland.
Table B (Cont.)					
<b>Site ID</b>	<b>Name/ Resource</b>	<b>Location</b>	<b>Mitigation Proposed</b>	<b>Approx. Size (Ac)</b>	<b>Site Summary</b>
<b>SOMERSWORTH (Cont.)</b>					



SH5	Headwaters of Peters Marsh Brook	From Blackwater Rd. south along Peters Marsh Brook	Restoration/Creation/Preservation	0.5 / 2.5 / 120	This is a commercial area with ongoing development. Wetlands form part of a corridor from Willand Pond to the Salmon Falls River. It is recommended that a wetland and upland buffer corridor be maintained through the site, including oversized culverts to allow for wildlife passage. There are opportunities for onsite wetland restoration or creation in the former gravel pit.
SH6	Tates Brook	Along Tates Brook between Rocky Hill Rd. and Gonic Rd.	Restoration/Preservation	1 / 150	Large marsh with upland buffer preservation possible and restoration of ~1 acre excess fill around skating pond. Upstream and downstream culverts could be replaced with oversized box culverts to facilitate wildlife passage.
SH8	Lily Pond, Tributary to Salmon Falls River	Along stream from Lily Pond to B&M railroad	Preservation	60	Riparian corridor upstream from town well property. Possible wildlife corridor between Lily Pond and Salmon Falls River.
SH9	Tributary to Salmon Falls River	Along stream between Rocky Hill Rd. and Rochester St.	Restoration/Preservation	0.5 / 35	Riparian corridor with linkages to Salmon Falls River. Upland is undeveloped. Parcel abuts protected lands to the north (Mast Point Recreation Area) and to the south (town well parcel). Replacement of culverts would facilitate wildlife travel to and from the Salmon Falls River.
<b>STRATHAM</b>					
SM1	Parkman Brook	Off Rte 101 & Middle	Preservation	160	1.75 miles of stream corridor. This is a relatively undisturbed wildlife corridor, although there is a large potential for development upstream and development is presently encroaching downstream.
SM2	Jewell Hill Brook Corridor	NE of Greenwood Cem	Preservation	150	Existing pond high value habitat. The approximately 1.5 miles of stream has well defined floodplain with steep side slopes. Better preservation potential to the west of Rte 101/33. Already well-developed to the east.
Table B (Cont.)					
<b>Site ID</b>	<b>Name/Resource</b>	<b>Location</b>	<b>Mitigation Proposed</b>	<b>Approx. Size (Ac)</b>	<b>Site Summary</b>
<b>STRATHAM (Cont.)</b>					

SM4	Mid Winnicut River Swamps	Off Winnicut Rd	Preservation	90	<p>Preservation of stream corridor. Potential Natural Heritage Inventory element. Existing conservation land nearby. There is much development encroaching presently in upstream portions. Golf Course has eliminated a portion of the preservation area. Consider water quality wetland creation downstream from this area.</p>
SM5	Mill Brook Corridor	Rte 108 & Rte 33 Area	Preservation	180	<p>This project proposes to protect approximately 1 mile of Mill Brook. This system is fragmented by the Stratham Circle but the upstream portion is intact and has high value wetlands associated with the stream. Agricultural conservation lands nearby and directly adjacent this area to the west.</p>
SM6	SNE Seepage Forest	Off High Street	Preservation	135	<p>Southern New England Rare plant community and species. Unique for this area. Development presently encroaching to the north. This is a high value protection area.</p>
SM7	Dearborn Brook Headwaters	South of Rollins Hill	Preservation	120	<p>This is an important preservation site for the Dearborn Brook Headwaters which feeds Exeter's water supply. There is existing conservation land adjacent the Middle School. Good educational wetland value as well as high value habitat for wildlife.</p>

The overall goal of this inventory project is to empower local communities to protect and restore freshwater resources by providing them with data on potential mitigation sites.

For the purposes of this report, *wetland mitigation* shall be defined as in the current State of New Hampshire Wetland Mitigation Rules, proposed Wt 101.15:

"Compensatory mitigation" means creation of a new wetland, restoration of a wetland, or preservation of land to offset the impact of a project by replacing or partially replacing wetlands functions and values lost due to the project, or by substituting the value added to a wetland or wetland system for the functions or values lost."

The NH Estuaries Program and other agencies may have funding available for the purpose of mitigation efforts such as proactive restoration, creation or preservation.

Wetland Restoration site examples solicited from Conservation Commissions and researched by project team included:

- Filled/excavated/graded wetlands
- Ditched/drained wetlands
- Wetlands where water quality has been degraded by untreated runoff or other pollutants
- Culvert restrictions in high value wetlands and/or at road crossings
- ATV crossings degrading water quality
- Wetlands dominated by invasive species

Wetland Creation site examples included:

- Degraded uplands (borrow pits, etc.)
- Storm water treatment wetlands
- Mechanical storm water run off treatment systems

The types of Preservation sites researched have been based on NH Living Legacies Program criteria including wetlands associated with:

- Rare or exemplary natural communities
- Rare plant populations
- Critical wildlife habitats
- Rare animal species
- Unfragmented habitats >500 acres
- Uncommon geologic formations
- Linkages to ecological reserves/protected lands
- Other high value/prime wetlands

Examples of wetland buffer preservation sites include buffers around high value wetland systems such as designated Prime Wetlands, riparian systems, water bodies, wetlands with rare and endangered species, or wetlands with important wildlife habitat. Wetland buffer preservation is also recommended, particularly if the upland has a high development potential.

## **b. PROJECT NEED**

The rapid pace of development in the coastal region of New Hampshire has resulted in a dramatic increase in NH Wetlands Bureau applications to fill wetlands and as a result there is a greater demand for wetland mitigation sites to offset those impacts. Currently, the US Army Corp of Engineers (USACE) requires compensatory mitigation for large (generally greater than one acre) wetland impact projects. The NH Department of Environmental Services (NHDES) is currently creating rules for compensatory mitigation related to smaller projects (greater than 10,000 square feet). Many towns in coastal New Hampshire are considering requiring wetland mitigation at the local level. These policy changes will increase the need for appropriate mitigation sites throughout the state and in the rapidly growing coastal region. Local conservation commissions and town officials need information on potential mitigation sites that have a high likelihood of success and that provide significant wetland functions and values.

### **c. USE OF THIS REPORT**

#### ***Site Specific Planning***

This report will provide a wide variety of sites throughout each town for conservation commissioners, other local officials, regulators and environmental consultants to review when a project requires wetland mitigation. Included is information identifying the size, location and type of mitigation site and an assessment of the functions and values provided by each site.

#### ***Community Planning***

The information in this report will help communities address wetland mitigation projects on a larger scale addressing town-wide wetland systems and watersheds. Sites identified in this report include preservation sites associated with wetlands of local significance. Many of these sites could be undertaken as separate projects and funded through grants.





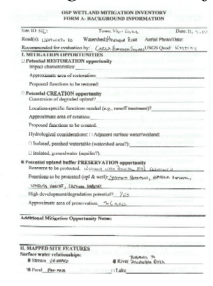
Whether or not communities choose to enact a local mitigation ordinance or pursue funding for wetland protection, this inventory will prove to be a valuable resource to provide input to regulatory agencies on wetland mitigation decisions being made.

#### ***Regional Planning***

This inventory also provides opportunities for cooperative projects between towns as several sites link larger wetland complexes and riparian corridors. Watershed based information is provided that can assist regional projects such as transportation or utility projects. The 190 sites in the nineteen towns inventoried provide a vast cross section of wetland mitigation options and wetland resources. This information will be made widely available for regional analysis and utilization through GIS technology and the GRANIT System.

**d. HOW TO USE THIS REPORT**

The following is an illustration of the components and potential use of information presented in this report.

<p align="center"><b>Summary Table for Each Community</b></p> <p align="center"><i>Use: Choose site based on potential mitigation need.</i></p> <p align="center"><small>Table 1. Field Inspected Potential Mitigation Sites</small></p> <table border="1"> <thead> <tr> <th>Site ID</th> <th>Water Resource</th> <th>Location</th> <th>Mitigation Proposed</th> <th>Opport. Mit. (A-D)</th> <th>Site Remarks</th> </tr> </thead> <tbody> <tr> <td>182</td> <td>Wetland Area</td> <td>Bank 7 and Wetland Area</td> <td>Creation</td> <td>1,2</td> <td>Existing, adjacent to parking lot. Area is currently not suitable for wetland creation due to slope and low groundwater level.</td> </tr> <tr> <td>183</td> <td>Wetland Area</td> <td>Wetland Area</td> <td>Restoration</td> <td>1,2</td> <td>This high-value, large wetland area has a variety of habitat opportunities. It is currently degraded and needs restoration.</td> </tr> <tr> <td>183C</td> <td>Wetland Area</td> <td>Wetland Area</td> <td>Restoration</td> <td>1,2</td> <td>This high-value, large wetland area has a high value habitat that is currently degraded and needs restoration.</td> </tr> <tr> <td>184</td> <td>Wetland Area</td> <td>Wetland Area</td> <td>Restoration</td> <td>1,2</td> <td>Existing, adjacent to parking lot. Area is currently not suitable for wetland creation due to slope and low groundwater level.</td> </tr> <tr> <td>185</td> <td>Wetland Area</td> <td>Wetland Area</td> <td>Restoration</td> <td>1,2</td> <td>This high-value, large wetland area has a variety of habitat opportunities. It is currently degraded and needs restoration.</td> </tr> <tr> <td>186</td> <td>Wetland Area</td> <td>Wetland Area</td> <td>Restoration</td> <td>1,2</td> <td>This high-value, large wetland area has a high value habitat that is currently degraded and needs restoration.</td> </tr> <tr> <td>187</td> <td>Wetland Area</td> <td>Wetland Area</td> <td>Restoration</td> <td>1,2</td> <td>This high-value, large wetland area has a variety of habitat opportunities. It is currently degraded and needs restoration.</td> </tr> </tbody> </table>	Site ID	Water Resource	Location	Mitigation Proposed	Opport. Mit. (A-D)	Site Remarks	182	Wetland Area	Bank 7 and Wetland Area	Creation	1,2	Existing, adjacent to parking lot. Area is currently not suitable for wetland creation due to slope and low groundwater level.	183	Wetland Area	Wetland Area	Restoration	1,2	This high-value, large wetland area has a variety of habitat opportunities. It is currently degraded and needs restoration.	183C	Wetland Area	Wetland Area	Restoration	1,2	This high-value, large wetland area has a high value habitat that is currently degraded and needs restoration.	184	Wetland Area	Wetland Area	Restoration	1,2	Existing, adjacent to parking lot. Area is currently not suitable for wetland creation due to slope and low groundwater level.	185	Wetland Area	Wetland Area	Restoration	1,2	This high-value, large wetland area has a variety of habitat opportunities. It is currently degraded and needs restoration.	186	Wetland Area	Wetland Area	Restoration	1,2	This high-value, large wetland area has a high value habitat that is currently degraded and needs restoration.	187	Wetland Area	Wetland Area	Restoration	1,2	This high-value, large wetland area has a variety of habitat opportunities. It is currently degraded and needs restoration.	<p align="center"><b>USGS Maps for Each Site</b></p> <p align="center"><i>Use: Shows mitigation type and site location</i></p>  <p align="center"> <span style="color: green;">█</span> Preservation              <span style="color: red;">█</span> Restoration              <span style="color: orange;">█</span> Creation     </p>
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**III. SITE SELECTION**

## **a. PRELIMINARY DATA COLLECTION**

Senior scientists from West Environmental, Inc. and Carex Ecosystem Sciences met with each local conservation commission to introduce the project and collect information on potential mitigation sites (see Appendices B & C). In most cases follow-up meetings with individual commissioners were held to locate additional sites. Towns that had previously conducted wetland inventories or had already designated Prime Wetlands, such as Exeter, provided a greater number of potential sites. Newington, Newmarket, Rochester, and Portsmouth all have wetland inventories in various stages of completion and provided the greatest number of potential mitigation sites because wetland resources had previously been prioritized.

The project team also utilized a GIS map with the following layers to prioritize potential wetland buffer preservation sites:

- National Wetland Inventory Wetlands
- Water Bodies
- Conservation Lands
- Wetlands with Potential NH Natural Heritage Inventory Elements

This resource mapping was very useful in prioritizing wetland resources within the majority of the towns that had not previously conducted wetland inventories. The most comprehensive wetland inventory for the region was conducted in 1985 and 1986 by Normandeau Associates, Inc. for the Coastal Wetlands Mapping Program for the Towns of New Castle, Rye, North Hampton, Hampton, Hampton Falls and Seabrook. This inventory included tidal wetlands and has been under-utilized by towns for wetland resource identification.

The Project Team utilized a wide variety of reference materials in order to locate potential wetland mitigation sites. The project scientists also met with state agency personnel to review potential sites through file research and by examining existing natural resource studies. The NHDES Wetlands Bureau coastal office files were consulted in an effort to locate potential wetland restoration areas. This search yielded only a few sites due to the complexities of reported violations, property owner issues, and legal ramifications. It appears that sites with good restoration potential were already pursued by the Wetlands Bureau enforcement staff and the older case files represented sites with lower wetlands restoration potential.

Wetland creation sites were identified by locating existing gravel and sand excavation sites adjacent to wetland systems and by finding areas where untreated runoff from roads and parking areas entered wetland systems.

State / other government agencies along with non-profit groups were contacted to solicit information and recommendations. (see contact letter in Appendix D)

Contact	Title	AGENCY	Division
Ellen Snyder	Coordinator, NH Eco. Reserve Syst. Proj.	University of New Hampshire	Cooperative Extension
John Kanter Dori Wiggin	Non-Game Coordinator	State of NH NHDES	Fish and Game Wetland Bureau Coastal Office
Dave Price		NHDES	Wetland Bureau Coastal Office
Mary Ann Tilton		NHDES	Wetlands Bureau, Enforcement Branch
Frank Richardson Cynthia Copeland	Director	NHDES Strafford Planning Commission	Wetland Bureau
Glen Greenwood	Director	Rockingham Planning Commission	
Paul Susca	Drinking Water Source Protection Program Ecologist	NHDES	Water Division
J. Paul Minkin, Ph.D Phil Auger	Extension Educator	USACOE University of New Hampshire	New England Division Cooperative Extension
Darrel F. Covell	Extension Specialist	University of New Hampshire	Cooperative Extension
Frank Mitchell	Extension Specialist	University of New Hampshire	Cooperative Extension
David Wickliffe	GIS Specialist	Rockingham Planning Commission	
Ty Crossman	GIS Specialist	Strafford Planning Commission	
Michael Bartlett Barbara McMillan	Supervisor Watershed Outreach Coordinator	USFWS NHDES	Water Division, Watershed Mgt. Bureau
Eric P. Orff	Wildlife Biologist	State of NH New Hampshire Sea Grant Prog.	Fish and Game Kingman Farm, UNH
Mary Power		NH Coastal Prog. NHDES	
Rivers Coordinator		NHDES	Water Division, Drinking Water Source Protection Prog.
Eric Williams		NHDES	Water Division, NH River Mgt. and Protection Prog.
Denise Frappier		NHDES	Water Division, Watershed Mgt. Bureau
Matt Schweisberg Mark Kern		USEPA USEPA	Water Division, Water Supply & Pollution Control New England Region New England Region

## Agencies Contacted

Agency
--------

Rockingham Land Trust
Seacoast Land Trust
Strafford Rivers Conservancy
Great Bay Stewards
NH Natural Heritage Inventory
The Nature Conservancy
The Nature Conservancy
The Nature Conservancy
Society for the Protection of NH Forests
Society for the Protection of NH Forests
The Seacoast Anti-Pollution League
Exeter River Local Advisory Committee
Lamprey River Advisory Committee
Audubon Society of NH
NH Rivers Council
NH Wildlife Federation
Sierra Club of NH
Three Rivers Land Coalition

Finally technical reports, wetland resources and maps were consulted, reviewed and analyzed (see Appendix E).

Information was collected from these off-site sources and recorded on the background information form, Form A. This form categorized the type of mitigation opportunity (restoration, creation, preservation). Scientists also documented mapped site features including surface water relationships, wetland type or classification, NRCS soil series, surrounding land use, wildlife habitat features, or ecologically significant features that may have been discovered upon preliminary examination.

Utilizing this baseline information, senior scientists identified and inventoried potential mitigation sites. Over 190 sites were identified and Form A's were completed for each site. This preliminary inventory for all of the nineteen communities may be found in Appendix A.



## **b. FIELD EVALUATION**

The project scientists then selected six to ten sites per town for field evaluation. The selection process was based upon the following criteria:

- Preliminary background, “Form A” information
- Value of the wetland resource to be protected, restored or created
- Potential presence of New Hampshire Natural Heritage Inventory (NHNHI) Elements or Communities
- Logistics, such as access feasibility and ownership considerations
- Threat to the wetland resource
- Local support or recommendations provided by the conservation commissions.

For the selected sites, Form B, titled Field Information was then completed. The preliminary data was field-verified and additional information was collected including, plant community data, wetland functions, wetland values, ownership considerations, buffer information, and potential wetland restoration and creation information. Based upon the field investigation, each site was summarized and is found in Table B which is in the introduction section of this report.

## **IV. LIMITATIONS**

This investigation provides baseline information on potential freshwater mitigation opportunities within the towns examined. Users of this study should be aware that the information provided is subject to the changing conditions caused by development, that not all of the best sites were identified or field evaluated, and that the selected sites may not be available due to landowner considerations. Additional detailed information about any given site will need to be collected prior to making any wetland mitigation decisions.

Due to the scope of this study and budget constraints, there were limits to the number of wetlands that could be field evaluated and on the time allotted for any individual wetland evaluation. Many of the sites could not be evaluated because they were remote or were in areas posted for “no trespassing”. In addition, there were not enough resources to contact landowners about their willingness to sell their land or development rights for the purposes of providing wetland mitigation opportunities.

The sites selected for field evaluation were based on information from a number of off-site sources. Thus, the quality of the sites selected was dependent on detail and quality of the off-site information. Where towns had provided significant input and detailed wetland mapping, the pool of potential sites for field evaluation was much greater than those without such information. In addition, one of the primary criteria for selecting sites for field evaluation was

the presence of potential NHHI elements, however, due to its policy, we did not have exact locations of these elements, information on what the identified elements were, or information on the relative importance of the habitat at any location to assist in our evaluations.

The landscape is dynamic and the pace of development in southeastern New Hampshire is rapid. This change results in the continuous loss of quality in off-site landscape information over time. Often areas identified as potential wetland mitigation sites had been developed or degraded in the interim between the publication of the off-site data and on-site field evaluations. Thus, some sites with relatively low wetland mitigation value may have been field evaluated while other sites with relatively high wetland mitigation value did not get selected for field evaluation. Furthermore, a number of sites in this study that were identified as having high wetland mitigation value and were field evaluated have been sold for development or have been developed between the data collection phase and publication of this report.

## **V. INDIVIDUAL COMMUNITY INVENTORIES**

### **Introduction**

An individual inventory was completed for each of the nineteen coastal communities. This design allows the local information to be used independently by each town and provides for easier distribution within the wider community as desired. The broader collection, a combined report of all the nineteen coastal communities' potential sites, is available from the NH Estuaries Project and provides important freshwater wetland mitigation opportunities for the entire seacoast area of New Hampshire.

**See Individual Community Inventories after  
Section VI, Page 31**

## VI. RECOMMENDATIONS

Project scientists found that the rapid rate of development within the coastal region contributed to the elimination of sites that may have been considered a few years earlier. Many high value wetland systems that appeared relatively undisturbed in 1998 aerial photography have since been developed, or were currently under development. In fact, some areas had gone through development during the relatively short course of time in which this inventory was conducted. This development pressure threatens to fragment many of the larger freshwater wetland systems including most of the coastal riparian drainages.

It is recommended that the fourteen communities that have not undertaken wetland inventories within the past ten years consider this option as a way to prioritize these valuable resource areas. Regionally and locally important wetlands cannot be well protected without proper identification.

Prime Wetland designation should also be considered to provide additional protection to each community's most important wetland systems. This process could be combined with the Wetland Inventory work previously recommended.

The coastal communities should examine local wetland regulations and consider greater wetland setbacks and buffers to provide better protection of wetlands. Local Shoreland Protection could provide protection of riparian corridors and surface waters. Larger wetland systems may deserve regional protection measures that cross town boundaries. Local wetland mitigation requirements should also be evaluated as to their benefit in municipal project permitting.

**TABLE A: PRELIMINARY INVENTORY OF POTENTIAL MITIGATION SITES FOR 19 COASTAL COMMUNITIES**

Town	ID	Name/Resource/ Feature	Watershed	Location	P,R,C	Form A	Form B	
						Prelim.	Field	
DOVER	DR1	Borrow Pit	Cocheco River	Fourth St. midway between Cocheco R. and Tolend Rd.	C	x		
	DR2	Cocheco River	Cocheco River	Fourth Street	P/R	x	x	
	DR3	Berry Brook Headwater	Berry Brook	Central Ave south of Glenwood Ave	P/R	x	x	
	DR4	Bellamy River buffer	Bellamy River	South side of Knox Marsh Rd.	P	x	x	
	DR5	Large Aquifer	Cocheco River	Land between French Cross, Littleworth and Tolend	P	x		
	DR6	Bellamy River	Bellamy River	Reyners Brook north of Pickering Rd	P	x		
	DR7	Cocheco River	Cocheco River	West of Watson Rd	P	x		
	DR8	Blackwater Brook	Cocheco River	Along Blackwater Brk. From Spaulding Tpk. And Cocheco R.	P	x	x	
	DR9	Cocheco River buffer	Cocheco River	Along N. side of the Cocheco R. between Watson Rd. and Spaulding	P	x	x	
	DR10	Fresh Creek	Fresh Creek	Off Gulf Rd, north to Town line	P	x		
	DR11	Isolated wetland	Johnson Creek	Undeveloped land inside Mast Rd., Back River Rd. and NH Rte. 108	P	x	x	
	DR12	NHNHI Element	Knox Marsh Brook	West of Columbus Ave	P	x		
	DR13	Open Land	Bellamy River	Land at corner of French Cross Rd & Tolend Rd	P	x		
DURHAM	DM1	Oyster River	Oyster River	West side of NH 108 as it crosses the Oyster River	P	x	x	
	DM2	Beards Creek	Beards Creek	North from NH Rt 4 to town line along Beards Creek	P	x		
	DM3	Large wetland complex	Great Bay	Between Dame Rd and Bay Rd	P	x	x	
	DM4	Crommet Creek	Great Bay	South side of Langmaid Rd.	P	x	x	
	DM5	Wetland w/ NHNHI elements	Oyster River	From Foss Farm Rd. west to B&M RR	P	x		
	DM6	Wetland w/ NHNHI elements	Great Bay	East side of Durham Pt. Rd., near outfall of Crommet Creek into Great Bay	P	x	x	
	DM7	Vernal Pool Complex	Great Bay	East side of Durham Pt. Rd., near intersection with Langmaid Rd.	P	x	x	
	DM8	Lamprey River	Lamprey River	east of intersection of Bennet rd. & Packers Falls Rd. to entry of Woodman Bk.	P	x		
	DM9	Lamprey River	Lamprey River	West side of NH 108 near Moat Is.	P	x		
	DM10	Lamprey River	Lamprey River	West side of NH 108 just North of Newmarket town line	P	x		
	DM11	Littlehale Creek	Oyster River	North side of NH 108, pond caused by daming of Beards Creek just before Oyster R.	P	x		
	DM12	College Brook	Oyster River	Mill Rd Plaza, Mill Rd	P/R/C	x	x	
	DM13	Folletts Brook	Folletts Brook	Land South of Wiswall Rd. west of Lamprey River	P	x		
	DM14	Complex of tributaries	Lamprey River	North of Bennet Rd	P	x		
	DM15	Oyster River	Oyster River	Mast Road	R/P	x	x	
EXETER	ER1	Ash Brook	Ash Brook	Hampton Rd & Rte 11	R	x	x	
	ER1(A)	Ditched Ag Field	Exeter River	Powder Mill	C	x	x	
	ER2	Culvert Replacement	Ash Brook	Dows Corner area	R	x		
	ER3	Road runoff	Exeter River	Drinkwater Rd	C	x		
	ER4	Bloody Brook Headwaters	Bloody Brook	Off Watson Rd	R	x	x	
	ER5	Water Protection	Exeter River	Patricia Ave	R	x		
	ER6	Dudley Brook	Dudley Brook	Dogtown Rd	R	x	x	
	ER7	Bloody Brook/Little River	Bloody Brook	Route 101 Area	P	x	x	
	ER8	Exeter Prime Wetland	Bloody Brook	Off Route 101(combined with ER7)	P	x	X	
	ER9	Fill Area	Fresh River	Birch Rd	R	x		
ER10	Exeter River Backwater	Exeter River	Off Drinkwater Rd	P	x			
ER10(A)	Squamscott River Tributary	Squamscott	DPW, Newfields Rd	C	x	x		

**TABLE A: PRELIMINARY INVENTORY OF POTENTIAL MITIGATION SITES FOR 19 COASTAL COMMUNITIES**

<b>GREENLAND</b>	GD1	Winnicut Rv Corridor, North	Winnicut River	East side of Winnicut River, from Marsh Brook North to Winniconic Brook	P	x		
	GD2	NHNHI Element	Norton Brook	South of Breakfast Hill Rd. to town line, from I-95 east to Lafayette Rd	P	x		
	GD3	NHNHI Element	Winnicut River	East of Winnicut rd along Winnicut River	P	x	x	
	GD4	NHNHI Element	Great Bay	South and East of Great Bay Rd, West of Bayside rd.	P	x	x	
	GD5	NHNHI Element	Jewell Hill Brook	East of Willow Brook Ave., South of Portsmouth Ave to town line	P	x	x	
	GD6	Thompson Brook	Thompson Brook	Willow Brook & Ports. Ave	P	X	x	
	GD7	Winnicut Rv Corridor, South	Winnicut River	Off Winnicut Rd	P	X	x	
	GD8	Packers Bog	Packer Brook	East of I-95	P	X		
	GD9	Borrow Pit	Isolated	By Rec Fields	C	X	x	
<b>HAMPTON</b>	HN1	Mill Pond	Hampton Marsh	Mill Pond Lane and High Street		X	x	
	HN2	Lamprey Pond	Hampton Marsh	Off Woodland Rd to West		X	x	
	HN3-A	Taylor River Corridor (S)	Hampton Marsh	Between Towle Farm Rd and Rte 95		X	x	
	HN3-B	Taylor River Corridor (N)	Hampton Marsh	Off Coffin Mill Rd to NW and Off Towle Farm Rd to NW		X	x	
	HN4	Lower Nilus Brook	Hampton Marsh	Off Woodland Rd to East		X		
	HN5	Car Barn Pond	Hampton Marsh	Off Timber Swamp Rd		X		
	HN6	Old River Headwaters	Hampton Marsh	By Cemetery Corners		X	x	
	HN7	Gravel Pit	Hampton Marsh	South of Hampton Airport, by Fogg Corner		x		
	HN8	Old River Marsh	Hampton Marsh	West of Car Barn Pond			x	
<b>HAMPTON FALLS</b>	HF1	Steve Sicard	Across fr Brush Dump	Taylor River	C	x		
	HF2	Whittier Pond	Prox. To Rte 1	Taylor River	C	x		
	HF3	Proposed Subdivision	Taylor River	289 Exeter Rd, Hampton Falls	C	x		
	HF4	Water Qual Protection- Bacteria	Taylor River	Tri-State Catering, 163 Exeter Rd...	C	x		
	HF5	GW Sampling	Taylor River	Sturgis Village Barn, Rte 1-	C	x		
	HF6	GW Sampling	Taylor River	Seaside Motors...	C	x		
	HF7	Route 107, Haz wste proj	Taylor River	Gruhn Property, Seabrook Wellfield...	C	x		
	HF8	Taylor River -Restoration	Taylor River	Curtis Rd, Exeter Rd	R	x	X	
	HF8 (A)	Taylor River (South)		Drinkwater Rd	P		X	
	HF8 (B)	Taylor River (South)		Drinkwater Rd	P		X	
	HF9	Bill Ackroyd, Pot Pres	Taylor River	Map 6, Lt 10,11	P	x		
	HF10	Potential Pres from Granit	Taylor River	Map 6, Lot 16	P	x		
	HF11	Grapevine Run	Taylor River	creation and preservation	P	x	X	
	HF12	Kenny Brook	Taylor River	Off Town Hall Rd	P	x	X	
	HF13	Hampton Falls River	Hampton Falls River	New Zealand Rd	P	x	X	
	HF14	Dodge Ponds	Taylor River	Rte 95, Kingston Rd	P	x		
	HF15	Over strat drift aquifer	Exeter River	West of Rte 88	P	x	X	
	HF16	Taylor River (North)	Taylor River	South of Sandborn Rd	P	x	X	
	HF17	Grapevine Run, invasives	Taylor River	Map 5, Lot 6	R	x		
<b>MADBURY</b>	MY1	Tributary to Bellamy Rv	Bellamy River	NH Route 155 along B&M railroad	P	x		
	MY2	Forested WL w/NHNHI	Bellamy River	Hayes Road near Durham & Barrington town lines	P	x	x	
	MY3	Borrow Pit	Oyster River	South of Old Stage Rd	C	x	x	

**TABLE A: PRELIMINARY INVENTORY OF POTENTIAL MITIGATION SITES FOR 19 COASTAL COMMUNITIES**

	MY4	Forested wetland complex	Bellamy River	Nute Road along Bellamy River	P	x		
	MY5	Bellamy River	Bellamy River	Crosby Road in campground	R	x		
	MY6	Forested shrub swamp	Great Bay	Jenkins Road along unimproved section to Durham town line	P/R	x	x	
	MY7	Borrow Pit	Barbadoes Pond	Old Stage Road in gravel pit	P/C	x	x	
	MY8	Bellamy River	Bellamy River	Along Bellamy River between Mill Hill Rd. & NH Route 155	P	x	x	
	MY9	Beards Creek	Oyster River	Madbury Road between road and B&M railroad	R	x	x	
	MY10	Wetland in Bellamy Rv drainage	Bellamy River	NH 155, the old greenhouses between Madbury Rd & RR	R	x		
	MY11	Gerrish Brook	Gerrish Brook	Freshet Rd & Durham Rd, Gerrish Brook & Hoyt Pond	P	x		
<b>NEW CASTLE</b>	NE1	Freshwater marsh	Atlantic Ocean	Wentworth Rd	R/P	x	x	
	NE2	Marsh and shrub swamp	Atlantic Ocean	Pit Lane	R/P	x	x	
	NE3	Quarry and vernal pool	Atlantic Ocean	Pit Lane	R/P	x	x	
	NE4	Shrub swamp and marsh	Atlantic Ocean	Pit Lane	R/P	x	x	
	NE5	Forest and marsh habitat	Atlantic Ocean	Wild Rose Lane	R/P	x	x	
<b>NEWFIELDS</b>	NS1	Cntrl Piscassic River Area	Piscassic River	Off Piscassic Rd, Off old RR Bed	P	x	X	
	NS2	Ice Pond	Piscassic River	Off Piscassic Rd, Ice Pond	P	x	X	
	NS3	Cuba Rd Bridge, Sw Wh Oak	Piscassic River	Over Piscassic River.	P	x		
	NS4	Parting Brook Corridor	Squamscott River	Of Rte 85, S of Piscassic Rd	P	x	X	
	NS5	Piscassic River Corridor	Piscassic River	Off RR Bed, West of Old Lee Rd	P	x	X	
	NS6	Field Wetland Const	Piscassic River	Off Piscassic Rd	C	x		
	NS7	NPS Construction	Squamscott River	Off Main Street, Adjacent to RR tracks	C	x	X	
	NS8	NPS Construction	Squamscott River	Off Rte 87, Off RR Tracks downtown	C	x	X	
	NS9	NPS Mitigation	Squamscott River	Rte 108, State Garage	R	x	X	
	NS10	NHI Sites	Piscassic River	Off Rte 87	P	x	X	
<b>NEWINGTON</b>	NN1	McIntyre Brook, ditch	Great Bay		R	X	x	
	NN2	Airport Rd	Great Bay	Airport Rd	R	X	x	
	NN3	Knight Brook	Great Bay	Off Post Rd	P	X	x	
	NN4	Flagstone Ditch	Great Bay	North of Nimble Hill Rd.	R	X	x	
	NN5	Flynns Gravel Pit	Great Bay	Off Little Bay Rd	C	X		
	NN6	Bulbois Bittercress site	Piscataqua River	Pease Tradeport. Front Gate	P	X	x	
	NN7	Pevery Ponds	Pevery Brook		P	X		
	NN8	Ditch System	Pickering Brook	Merrimack Rd	R	X	x	
	NN9	Pickering Brook	Pickering Brook	Merrimack Rd	R	X	x	
<b>NEWMARKET</b>	NT1	Moonlight Brook, water qual	Lamprey River	Center of Town	C	x		
	NT2	High School Wetlands, water qual	Lamprey River	Behind High School	C	x		
	NT3	Filion Swamp, water qual	Lamprey River	Elm St	P	x	x	
	NT4	Rte 152 Gravel Pits	Lamprey River	Rte 152 East of Ash Swamp Rd	C	x		
	NT5	Piscassic River Corridor	Piscassic	Ash Swamp Rd, Rte 152	P	x	x	
	NT6	Follets Brook Corridor	Piscassic	Packers Falls NW of Riverside Cemetary	P	x	x	
	NT7	Unnamed Trib to Great Bay	Great Bay	Bay Rd	P	x		
	NT8	Tuttle Swamp	Lamprey River	Ash Swamp Rd, Rte 152	P	x	x	

**TABLE A: PRELIMINARY INVENTORY OF POTENTIAL MITIGATION SITES FOR 19 COASTAL COMMUNITIES**

	NT9	Lady Slipper Ln wetland	Lamprey River	Lady Slipper Lane (off Rte 108)	P	x	x	
	NT10	Bald Hill Wetland	Lamprey River	Grapevine Hill Road	P	x	x	
<b>NORTH HAMPTON</b>	NHN1	Mill Pond	Little River	Mr. Field owner on Mill Rd	R	x	X	
	NHN2-A	Lovering Rd	Winnicut River	Over Winnicut River, by Cornelius Brook	R	x	X	
	NHN2-B	Lovering Rd	Winnicut River	Over Cornelius Brook	R	x	X	
	NHN2-C	Lovering Rd	Winnicut River	Over Cornelius Brook	R	x	X	
	NHN3	Gravel Pits	Winnicut River	Off Winnicut Rd, Adjacent Tributary to Winnicut River	C	x		
	NHN4	Oliver Brook System	Little River	Off Woodland Rd, Headwater to Little River	P	x		
	NHN5	State Hgwy Garage	Winnicut River	Off South Road	R	x	X	
	NHN6	Fuller Farm	Little River	Off Maple Rd, Fuller Farm Manure Piles	R	x	X	
	NHN7	Upstream Mill Pond	Little River	Off Mill Rd	R	x		
	NHN8	B&M RailBed	Little River	Off Railbed, Little River Headwater, duck Habitat per F&G Contact	P	x	X	
	NHN9	Large Marsh	Winnicut River	Upper Winnicut River, west of 95, Rte 111	P	x	X	
<b>PORTSMOUTH</b>	PH1	Tributary to Berry's Brook	Berry's Brook	East of Lafayette Rd	P	x	x	
	PH2	Berry' Brook	Berry's Brook	North and South of Lang Rd	R/P	x	x	
	PH3	Packers Bog	Packer Bog	East and west of Ocean Rd., South along town line	P	x	x	
	PH4	Berry' Brook	Berry's Brook	West of Lafayette Rd. to B&M RR South to town line	R/P	x	x	
	PH5	Great Bog	Great Bog	North East side of Great Bog	P	x		
	PH6	Marsh and filled swamp	Great Bog	East of B&M RR between Banfield Rd. & Ocean Rd	R/P	x	x	
	PH7	Disturbed wetland	Hodgson Brook	Pease tradeport	P	x		
	PH8	Large wetland complex	Great Bog	West of Portsmouth traffic circle, inside subdivisions	P	x		
	PH9	Disturbed wetland	Great Bog	Banfield Rd	R	x	x	
	PH10	Berry' Brook	Berry's Brook	Lafayette Rd	R	x	x	
	PH11	Disturbed wetland	Sagamore Creek	East of Hschool	R	x		
	PH12	Sagamore Creek	Sagamore Creek	Between Jones Ave & US 1A	R	x		
	PH13	Unnamed trib to Piscataqua	Piscataqua River	Shopping plaza	C	x	x	
	PH14	Hodgsons Brook	Hodgson Brook	Along length of Hodgson Brook	R	x		
<b>ROCHESTER</b>	RR1	Little Long Pond	Little Long Pond	North of NH 202 at town line with Barrington	P	x	x	
	RR2	Isinglass River	Isinglass River	West of Rochester Neck Rd. along Isinglass River to Town line	P	x		
	RR3	Salmon Falls River	Salmon Falls River	Salmon Falls Rd & Walnut Grove Rd, East to Salmon Falls River	P	x	x	
	RR4	Heath Brook	Heath Brook	large tract of land, north from 202 to Cross rd., East from Spldng. Tpk. to 16	P	x		
	RR5	Heath Bog	Heath Bog	East of Chesnut Hill Rd to B&M RR, North of Spaulding High School	P	x		
	RR6	Heath Bog	Heath Bog	Eastern Ave & Wakefield	P/R/C	x	x	
	RR7	Cochecho River	Cochecho River	Water treatnebt facility	R/P	x	x	
	RR8	Unnamed Pond	Berry's River	North of Gear Rd	P	x		
	RR9	Heath Brook	Heath Brook	Salmon Falls Rd and NH Rte 202	P	x		
	RR10	Tributary to Isinglass	Isinglass River	South of Flagg Rd	R/P	x	x	
	RR11	Isinglass River	Isinglass River	Flagg Rd	P	x		
	RR12	Headwaters of Blackwater	Blackwater Brook	Quail Drive	P	x	x	
<b>RYE</b>	RE1	Pond	Atlantic Ocean	Pond in urban area of Fairhill Manor	P	x		
	RE2	Berry's Brook	Berry's Brook	Area west of US 1 to town line, north & south boundries are town lines	R/P	x	x	
	RE3	Forested swamp with NHHNI	Atlantic Ocean	East of Brackett Rd between Washington Rd. & Wallis Rd.	R/P	x	x	

**TABLE A: PRELIMINARY INVENTORY OF POTENTIAL MITIGATION SITES FOR 19 COASTAL COMMUNITIES**

	RE4	Unnamed brook	Atlantic Ocean	West of Brackett Rd. between Washington Rd. & Wallis Rd.	P	x	x	
	RE5	Berry's Brook	Berry's Brook	East of Sagamore Rd, North of Clark Rd.	R/P	x	x	
	RE6	Witch Creek	Witch Creek	Inside New Castle Rd., Sagamore Rd. & Pioneer Rd.	R/P	x	x	
	RE7	Berry's Brook	Witch Creek	South of Pioneer Rd. East of Sagamore Rd.	P	x		
	RE8	Partially filled quarry and pond	Sagamore Creek	New Castle Rd	R	x	x	
<b>ROLLINSFORD</b>	RD1	Ditched Wetland	Rollins Brook	Behind Hospital, North of Garrison Hill	R	x	x	
	RD2	Tributary to Salmon Falls Rv	Salmon Falls River	Rte 4 and Sligo Rd	P	x	X	
	RD3	Salmon Falls River	Salmon Falls River	Foundry Rd	R/C/P	x	X	
	RD4	Fresh Creek	Coheco River	Old Mill Lane	R/P	x	X	
	RD5	Rollins Brook	Coheco River	Rte 4 and Old Mill Lane	R/P	x	X	
	RD6	Salmon Falls River	Salmon Falls River	Sligo Rd	C	x	X	
	RD7	Degraded wetland	Salmon Falls River	Somersworth Rd	R	x	X	
<b>SEABROOK</b>	SK1	107 Wells in Kingston and South	Hampton Falls River	New Zealand Rd	C	x		
	SK2	Rocks Rd	Browns River	Rte 1, East of	C	x	X	
	SK3	Hampton Falls River Corridor	Hampton Falls River	Mill Lane, New Zealand Rd	P	x	X	
	SK3(A)	Hampton Falls Rv Well Site	Hampton Fall River	Mill Lane	R	x	X	
	SK4	Beckman Woods	Mill Creek	Between Farm Lane and Walton Rd	P	x	X	
	SK5	Shepards Brook Headwater	Mill Creek	Market Basket, South Parking Lot, Austin Way, Railroad Ave, Look for Sams Way	P	x	X	
	SK6	Rocky Brook Corridor	Hunt Island Creek	Between RR Ave and Rocko Road	P	x	X	
	SK7	Woodlands Foote Creek	Blackwater River	South Main Street	P	x	X	
	SK8	Restoration Rocky Brook	Farm Brook	Between Rocks and RR Ave	R	x		
	SK9	Willey's Pond	Hunts Island Creek	Off Farm Lane	R	x		
	SK10	Home Depot NPS Creation	Mill Creek	Centennial St	C	x		
	Sk11	NPS Rte 107	Hampton Falls River	New Zealand Rd	C	x		
<b>SOMERSWORTH</b>	SH1	Peters Marsh Brook, Willand Pond	Willand Pond	North side of Willand Pond	R/P	x	X	
	SH2	Salmon Falls River	Salmon Falls River	Between B&M RR and SFR north of Rocky Hill Rd	P	x		
	SH3	Blackwater Brook	Blackwater Brook	Gonic Rd, Old Rochester Rd	R/P	x	X	
	SH4	Salmon Falls River	Salmon Falls River	From east town line, west along Rochester Rd, N of Rv	P	x		
	SH5	Headwaters to Peters Marsh Bro	Salmon Falls River	Blackwater Rd area	R/C/P	x	X	
	SH6	Tates Brook	Salmon Falls River	Along Tates Brook, Rocky Hill Rd, Gonic Rd	R/P	x	X	
	SH7	Tates Brook	Salmon Falls River	Along Tates Brook between Gonic and Blackwater	P	x		
	SH8	Lily Pond	Salmon Falls River	Along stream from Lily Pond to B&M RR	P	x	X	
	SH9	Tributary to Salmon Falls River	Salmon Falls River	Along stream between Rocky Hill Rd and Rochester St	R/P	x	X	
<b>STRATHAM</b>	SM1	Parkman Brook	Squamscott River	Off Rte 101 and Middle Rd to East	P	x	X	
	SM2	Jewell Hill Corridor	Squamscott River	Northeast of Greenwood Cemetary	P	x	X	
	SM3	Ditched Field	Winnicut	123 Union Rd, Map 17, Lot 50- NHWB # 91-1085..Ditched field and pond dug in wet meadow,	R	x		
	SM4	Mid Win. Rv Swamps	Winnicut	Off Winnicut Rd, South of Winnicut Mills	P	x	X	
	SM5	Mill Brook Corridor	Squamscott River	Intersection 108 & 33	P	x	X	
	SM6	SNE Seepage Forest	Winnicut	Off High Street, East of Cemetary	P	x	X	
	SM7	Dearborn Brook Headwaters	Exeter Reservoir	Off Stratham Heights Rd, South of Rollins Hill	P	x	X	
	SM8	Swamp adj. River	Squamscott River	Off Rte 108, N of Rte 33, 1st Rd on Left	P	x		



## **Appendix A**

### **Table A: Preliminary Inventory of Potential Mitigation Sites for 19 Coastal Communities**

## **Appendix B**

# **Conservation Commission Sample Packet for Solicitation of Information**

# **Appendix C**

## **Conservation Commission Attendance Sheets**

# **Appendix D**

## **Letter to Contacts for Solicitation of Information**

# **Appendix E**

## **Literature Referenced**