

CITY OF PORTSMOUTH

Community Development Department (603) 610-7232

Planning Department (603) 610-7216

Ms. Dori Wiggin, East Region Supervisor DES Wetlands Bureau, Pease District Office 222 International Drive, Suite 175 Portsmouth, NH 03801

January 25, 2011

Subject: City of Portsmouth Prime Wetlands Designation

Dear Ms. Wiggin:

Enclosed with this letter please find the Citywide Prime Wetland assessment and mapping that was recently completed and voted upon by the City Council. This effort was initiated in 2003 with the Completion of the Citywide Wetlands Inventory where all wetlands in the City were mapped and those wetlands meeting Prime Wetland Criteria were identified and reviewed. A follow-up study was begun in 2006 to study in greater detail the wetlands identified as Prime Wetlands and include additional wetlands which met the criteria. As part of this effort all of the wetlands in the City of Portsmouth, including those wetlands on the Pease Tradeport were investigated to determine which ones were most suitable for Prime Wetland designation under RSA 482 A:15

After a thorough review of all the potentially eligible prime wetlands was complete both the Conservation Commission (at their April 11, 2007 meeting) and the Planning Board (at their September 20, 2007 meeting) voted in favor of designating prime wetlands as listed in West Environmental Services report. On April 21, 2008 the City Council, at the recommendation of the Conservation Commission authorized funding for detailed mapping be completed in order to finalize the Prime Wetlands effort and to prepare a submission to the state. As part of this effort all of the wetlands reviewed for Prime Wetland status in the City of Portsmouth, including the wetland within the Pease Development Authority (PDA) had a final field visit where detailed mapping was completed and entered into the City's GIS.

For submission with this letter is a set of 14 wetlands, which have been chosen as the most significant wetlands in the City. At their meeting on July 19, 2010, the Portsmouth City Council held a public hearing, then voted in favor of forwarding the recommendations for the selected wetlands as Prime Wetlands to NHDES. One of these wetlands is within the PDA boundary. The wetland within the boundary of the PDA is labeled as wetland 7 for the purposes of this analysis. The Conservation Commission, Planning Board and the City Council voted to request that the Pease Development Authority adopt the recommendation that Wetland 007 (as shown on attached map) be designated a Prime wetland. A letter has been sent from the City to the PDA regarding wetland 007. If the PDA is interested in pursuing this designation this will be pursued as a separate action.

The submittal you have before you includes the following information for your review:



- City of Portsmouth Prime Wetland Analysis Report Completed in January 2010 by the City of Portsmouth and West Environmental Services Inc.
- Action sheet from Portsmouth City Council July 19, 2010 meeting where the City Council held a Public Hearing and took Action to approve designation of selected prime wetlands.
- Citywide map of prime wetlands in accordance with Env-Wt 702.02 format.

If you have questions or need additional information please do not hesitate to contact me at 610-7215 or plbritz@cityofportsmouth.com.

Sincerely

Peter Britz

Environmental Planner/Sustainability Coordinator

Cc: John P. Bohenko, City Manager

CITY OF PORTSMOUTH PRIME WETLAND ANALYSIS REPORT

Prepared for:
New Hampshire Department of Environmental Services
Portsmouth Regional Office
Pease International Tradeport
222 International Drive, Suite 175
Portsmouth, NH 03801

Prepared by:



and

The City of Portsmouth Planning Department



January 2011

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Map: Map of Proposed Prime Wetlands

1. Introduction

West Environmental, Inc. (WEI) has prepared this report to provide documentation to support the designation of prime wetlands in the City of Portsmouth, New Hampshire. Initially the 2003 City Wide Wetlands Inventory (CWWI) identified potential prime wetland candidates. WEI used this 2003 mapping as a starting point to field verify the identified wetlands. WEI then included additional wetlands which met the criteria for Prime Wetlands. The verification and identification of new wetland areas was conducted in 2006 with funding assistance from the Piscataqua Region Estuaries Partnership (then New Hampshire Estuaries Project) under their Community Technical Assistance Program. This additional research and evaluation insured that individual wetlands met the requirements of RSA 482-A:15 and Chapter Wt 700 of the NHDES Wetlands Bureau Administrative Rules. WEI worked closely with the Portsmouth Conservation Commission and Planning Department staff to review the technical criteria for Prime Wetland Designation and the results of the CWWI. After review and expansion of the potential prime wetlands a mapping effort was funded in 2007 by the City of Portsmouth at the recommendation of the Conservation Commission to accurately map the wetland boundaries of all potential prime wetlands. This report represents the analysis and approval of the final wetlands to be selected by the Portsmouth Conservation Commission, Portsmouth Planning Board and Portsmouth City Council for designation as Prime Wetlands in the City of Portsmouth.

RSA 482-A:15 defines "Prime Wetlands" as jurisdictional wetlands that "because of their size, unspoiled character, fragile condition or other relevant factors, make them of substantial significance." Env-Wt 701.04 <u>Selection of Designated Prime Wetlands</u> states "Selection of Prime Wetlands shall be based on the ranking of relative function values" and shall meet the following minimum criteria:

- 1) The wetland shall have the presence of hydric soils, hydrophytic vegetation, and wetlands hydrology; and
- 2) At least 50% of the prime wetland shall have very poorly drained soils and the remaining soils shall be poorly drained soils.

The Prime Wetlands Candidates identified in Section 3 of this report meet all qualifications for Prime Wetland status.

2. Methodology

Twenty-one wetlands were determined to have the potential to "qualify" for Prime Wetland Designation in the CWWI. WEI identified six additional wetlands that could qualify for this designation resulting in a total of 27 wetlands evaluated. A Portsmouth specific Prime Wetland Data Form was created to evaluate prime wetland status of these wetlands. This form includes the following information necessary for Prime Wetland Designation:

- Soils verification
- Changes in wetland classification since 2002

- Wetland boundary verification
- Land use changes within the wetland buffer
- Potential water quality impacts
- Invasive species
- Information on rare plants and wildlife
- Wildlife habitat
- Educational / scientific values
- Restoration potential
- Results of functional analysis
- Justification for Prime Wetland Designation

Completed data forms are in Section 7 of this report. Each of the 27 wetlands was field inspected to verify the wetland boundaries, functional analysis, values assessments, and other important considerations relating to Prime Wetland Designation. Significant inaccuracies in the wetland boundaries were identified during the field verification process. Some of these boundary corrections required changes in the results of the functional analysis and therefore the previous wetland ranking.

The six new potential prime wetlands were evaluated in comparison to the 21 original qualifying wetlands. A final ranking of the 27 wetlands found significant break between the Prime Wetland Candidates and the remaining qualifying wetlands. Two of the wetlands were combined based on identifying a connection in the field.

3. Prime Wetland Candidates

The table below lists thirteen proposed prime wetland candidates, which represent the largest and highest functioning wetlands within the city. These wetlands total 1,860 acres: 1,736 acres of freshwater wetlands and 124 acres of tidal marsh. Eleven of the thirteen wetlands are over 40 acres in size. The salt marsh prime wetland candidates include the upper Sagamore creek marsh (062) the main Sagamore Creek marsh (061A) and the Little Harbor cove salt marshes (061B). The upper Sagamore Creek salt marsh totals 44 acres. The main Sagamore Creek marsh has four components including Tucker's cove marsh totaling 67 acres. The Little Harbor cove salt marsh complex is also made up of four separate components totaling 13 acres. In addition to their top 13 ranking, the proposed prime wetlands comprise the most diverse and critical wetland wildlife habitat in Portsmouth. These systems also are adjacent to some of the only remaining undisturbed upland habitat within the City boundaries. Together, they will provide crucial links between habitats in the form of undisturbed wildlife corridors.

<u>ID</u>	Size (in acres)	<u>Rank</u>	<u>Justification</u>		
001	106.12	7	 Adjacent to Berry's Brook wetland complex Atlantic White Cedar stands 6th largest wetland 		
002	222.85	2	 Berry's Brook wetland complex 2nd largest wetland Rare species habitat 		
003A	542.26	1	 Great Bog Largest wetland Rare species habitat 		

203.83	3	Berry's Brook wetland complex
		 3rd largest wetland
		Rare species habitat
40. #	_	 7th largest wetland
48.5	8	 Unique wet meadow complex
		 Headwaters of Sagamore Creek
	_	 4th largest wetland
99.39	6	 High level of diversity
		 Headwaters to Hodgson Brook
		 High value freshwater marsh habitat
35.22	11	 Abuts natural forestland
		 High potential for wetland restoration
*	10	 Unique open water habitat
32.54°		 Diverse wetland complex
		 Potential rare species habitat
		 Tributary to Sagamore Creek
15.07	12	 Undisturbed wetland system w/natural buffers
		 High value freshwater marsh habitat
		■ 8 th largest wetland
55.08	9	 Atlantic White Cedar stands
		 Adjacent Packers Bog in Greenland
		Largest salt marsh
67.46	4	Rare species habitat
	•	Critical fisheries habitat
***************************************		One of only two salt marsh complexes
061B 13.38	13	Rare species habitat
		Critical fisheries habitat
· · · · · · · · · · · · · · · · · · ·		■ 2 nd largest salt marsh
43 54	5	Rare species habitat
TJ.JT	J	- Naic species habitat
	48.5 99.39 35.22 32.54* 15.07 55.08	48.5 8 99.39 6 35.22 11 32.54* 10 15.07 12 55.08 9 67.46 4 13.38 13

5. Wetlands Eliminated From Consideration

<u>ID</u>	Size (in acres)	<u>Rank</u>	<u>Justification</u>
002D	10.65	22	 Directly abuts highway on 3 sides
003B	18.65	22	 Invasive species
			 No connection to upland habitat
004	50.46	14	 Does not qualify due to lack of very poorly
			drained soils
	39.97	18	 Historical wetland impacts
013A			 Incorrectly mapped and 60% of original size
			 Disconnected and culverted
	5.17	20	 Historical wetland impacts
013B			 Water quality degradation observed
01313			Invasive species
			Small size (5 acres)
			Historical wetland impacts
014	19.87	16	 Surrounded by development
014			 Water quality degradation observed
			 No connection to upland habitat
016	50.72	1.5	 Does not qualify due to lack of very poorly
010		15	drained soils
022	10.65	10	 Incorrectly mapped and 70% of original size
022	19.65	19	 Surrounded by development

^{* (22.16+10.38)}

			 Historical wetland impacts
029	21.88	17	 Incorrectly mapped and 50% of original size Surrounded by development Historical wetland impacts
031	15.09	21	 Surrounded by development Water quality degradation observed No connection to upland habitat
038	4.96	24 (tied)	 Small size Not recommended for consideration by CWWI Lacks diversity
044	4.56	24 (tied)	 Small size Not recommended for consideration by CWWI Lacks diversity
050	5.78	23	Very small sizeSurrounded by development
117	2.51	26	 Small size Not recommended for consideration by CWWI Lacks diversity

5. Orthophoto Map of Proposed Prime Wetlands

See attached map.

Appendix A

Field Forms for Prime Wetlands Proposed
And
Those Eliminated from Consideration

Wetland ID: 001

Date: September 2006

Size:

110 acres

Estimated Percent of Very Poorly Drained Soils: 85%

Field Soils Verification Plots: Plot A along railroad bed

Classification(s) in 2002 Wetland Mapping: PFO1E/SS1E

Classification Change since 2002: Only hydrology descriptive to be added

Boundary Verification

Changes to boundary: Yes, along eastern boundary 2+

acres of upland

Inlet Streams: Yes, mostly drainage ditches from adjacent development

Outlet Streams: Yes, Berry's Brook to the south, minimal culverting under railroad bed to

the west

Ecological Integrity

Recent Impacts since 2002: No

Recent Buffer Development since 2002: New subdivision to the east

Potential Water Quality Impacts: Runoff from commercial development off of

Weatherstone Street

Natural Heritage Elements Present: Atlantic White Cedar stands

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: Residential 50% / Commercial 20% /

Woodland 30%

Is Wildlife Habitat a Principal Function of this Wetland? Yes, aquatic habitat present

Does this Wetland Rate High in Educational/Scientific Value? Yes, 7th in GES study

Does this wetland provide open vistas? Minimal

Is this wetland connected to open space land? Yes, in Greenland

Potential Restoration Opportunity

Type of impact to wetland: Water quality degradation

Approximate area of restoration: N/A

Prime Wetland?

Functional Analysis: ranks 5th in GES study for most functions

Does this wetland qualify as prime? Yes

Prime Wetland Recommendation: Yes

Justification: Atlantic White Cedar swamp connected to Packer Bog in Greenland

Wetland ID: 002

222.85

Date: September 2006

Size:

400€ acres

Est. Percent of Very Poorly Drained Soils: 60% with boundary adjustment

Field Soils Verification Plots: Plot 002A off Lang Road

Classification(s) in 2002 Wetland Mapping: PFO4E/PFO1E/SS1E

Classification Change since 2002: Yes - PEM1/SS1E

Boundary Verification

Changes to boundary: Yes, extensive changes along

western & eastern boundaries 10

acres of upland

Inlet Streams: Yes, Berry's Brook from south and runoff from adjacent development west

Outlet Streams: Yes, Berry's Brook to the north

Ecological Integrity

Recent Impacts since 2002: Minimal

Recent Buffer Development since 2002: Minimal

Potential Water Quality Impacts: Stormwater runoff

Natural Heritage Elements Present: Possible spotted turtle habitat

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: Residential 70% / Fields 10% /

Woodland 20%

Is Wildlife Habitat a Principal Function of this Wetland? Yes, ranked 2nd

Does this Wetland Rate High in Educational/Scientific Value? Yes, ranked 2nd

Does this wetland provide open vistas? Yes, ranked 1st although Sagamore Creek should rank higher

Is this wetland connected to open space land? Yes, in central portion

Potential Restoration Opportunity

Type of impact to wetland:

Approximate area of restoration:

Prime Wetland?

Functional Analysis: ranks 2nd in GES for most functions

Does this wetland qualify as prime? Yes

Prime Wetland Recommendation: Yes

Justification: 2nd largest wetland, connected to Berry's Brook & Prime Wetlands,

maintains vegetated buffers in many locations

Wetland ID: 003A

Date: September 2006

Size:

577 acres

Estimated Percent of Very Poorly Drained Soils: 90%

Field Soils Verification Plots: Plot 003A-A off of railroad bed

Classification(s) in 2002 Wetland Mapping: PFO1E/SS1E

Classification Change since 2002: PEM1E & PSS1E - correction, not change

Boundary Verification

Changes to boundary: Minimal only along northern tip of

Griffin Avenue

Inlet Streams: Yes, from west

Outlet Streams: Yes, to the west under Interstate 95 into Pickering Brook

Ecological Integrity

Recent Impacts since 2002: No

Recent Buffer Development since 2002: Yes, Griffin Ave / Ocean Ave

Potential Water Quality Impacts: Yes, from Interstate 95

Natural Heritage Elements Present: NE Cottontail, Atlantic White Cedar, heavy fruited

sedge, tufted loosestrife

<u>Urban Quality of Life</u>

Dominant Land Use within 1500 feet of wetland: Residential 10% / Forest 30% /

Commercial 40% / Field 10%

Is Wildlife Habitat a Principal Function of this Wetland? Yes, 1st

Does this Wetland Rate High in Educational/Scientific Value? Yes, 1st

Does this wetland provide open vistas? Yes

Is this wetland connected to open space land? Yes

Potential Restoration Opportunity

Type of impact to wetland: Invasive species

Approximate area of restoration: Interstate 95

Prime Wetland?

Functional Analysis: Ranked 1st in GES stuffy for most functions & values

Does this wetland qualify as prime? Yes

Prime Wetland Recommendation: Yes

Justification: Great Bog is one of the largest contiguous wetlands in Coastal NH and is

home for rare plants and wildlife

Wetland ID: 005

Size:

203.83

250 acres

Date: September 2006

Estimated Percent of Very Poorly Drained Soils: 90%

Field Soils Verification Plots: Plot 005-A off Lang Road

Classification(s) in 2002 Wetland Mapping: PFO1/SS1E & PEM1/FO1E

Classification Change since 2002: No

Boundary Verification

Changes to boundary: Yes, elimination of areas adjacent to

Route 1 and along southern

boundary

Inlet Streams: Yes, Berry's Brook from south

Outlet Streams: Yes, Berry's Brook to the north

Ecological Integrity

Recent Impacts since 2002: No

Recent Buffer Development since 2002: Minor along western boundary

Potential Water Quality Impacts: Stormwater runoff

Natural Heritage Elements Present: Possible spotted turtle habitat

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: Residential 60% / Commercial 10% /

Woodland 30%

Is Wildlife Habitat a Principal Function of this Wetland? Yes, ranked 3rd

Does this Wetland Rate High in Educational/Scientific Value? Yes, ranked 4th

Does this wetland provide open vistas? Yes

Is this wetland connected to open space land? Yes, in Rye to the south

Potential Restoration Opportunity

Type of impact to wetland: Fill along southwest boundary adjacent to commercial development

on Route 1; phragmites invasion off of Dolphin Drive

Approximate area of restoration: 0.5 acres

Prime Wetland?

Functional Analysis: Ranks 3rd in GES study for most functions & values

Does this wetland qualify as prime? Yes

Prime Wetland Recommendation: Yes

Justification: Combined w/ Wetland 002, this is the largest wetland in the city. This wetland ranked 3rd in GES stuffy for the most functions and values and will help to protect Berry's Brook

Wetland ID: 006

Date: September 2006

ENVIRONMENTAL

48.5

-89 acres Size:

Estimated Percent of Very Poorly Drained Soils: 60%

Field Soils Verification Plots: 006-A along railroad bed

Classification(s) in 2002 Wetland Mapping: PFO1/SS1E

Classification Change since 2002: PEM1E and PEM1Ed

Boundary Verification

Changes to boundary: Yes, northern portion eliminated

Inlet Streams: Yes, headwaters to Sagamore Creek

Outlet Streams: Yes, Sagamore Creek drains under Peverly Hill Road

Ecological Integrity.

Recent Impacts since 2002: None

Recent Buffer Development since 2002: Minor along Banfield Road

Potential Water Quality Impacts: None

Natural Heritage Elements Present: No

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: Residential 10% / Woodland 70% /

Fields 20%

Is Wildlife Habitat a Principal Function of this Wetland? Yes

Does this Wetland Rate High in Educational/Scientific Value? Yes

Does this wetland provide open vistas? Yes

Is this wetland connected to open space land? Yes

Potential Restoration Opportunity

Type of impact to wetland: None

Approximate area of restoration: N/A

Prime Wetland?

Functional Analysis: 6 out of 7 principal functions present

Does this wetland qualify as prime? Yes

Prime Wetland Recommendation: Yes

Justification: Diverse wetland with uncommon wet meadow component and intact natural

buffers, headwaters to Sagamore Creek.

Wetland ID: 007

99.39

Date: September 2006

Size:

145 acres

Estimated Percent of Very Poorly Drained Soils: 60%

Field Soils Verification Plots: 007-A along access road

Classification(s) in 2002 Wetland Mapping: PFO1-PFO1/SS1E

Classification Change since 2002: PEM1/SS1E

Boundary Verification

Changes to boundary: Extensive - eliminated / adjust

northern boundary

Inlet Streams: Yes, Grafton Ditch

Outlet Streams: Yes, tributary to Hogden Brook drains southeast under Interstate 95

Ecological Integrity

Recent Impacts since 2002: Yes, along northcentral boundary

Recent Buffer Development since 2002: Yes, commercial buildings along northern

boundary

Potential Water Quality Impacts: Yes, from stormwater runoff - commercial development

and Interstate 95

Natural Heritage Elements Present: No

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: Residential 30% / Woodland 30% /

Commercial 30% / Fields 10%

Is Wildlife Habitat a Principal Function of this Wetland? Yes

Does this Wetland Rate High in Educational/Scientific Value? Yes

Does this wetland provide open vistas? Yes

Is this wetland connected to open space land? No

Potential Restoration Opportunity

Type of impact to wetland: Water quality impacts to Grafton Ditch from Pease Tradeport

Approximate area of restoration: 0.5 acres along 1,000 linear feet of stream

Prime Wetland?

Functional Analysis: 7 out of 7 principal functions present

Does this wetland qualify as prime? Yes

Prime Wetland Recommendation: Yes

Justification: Top five sized wetlands in city, diverse wildlife habitat, headwaters to

Hogden Brook

Wetland ID: 15

Date: September 2006

ENVIRONMENTAL :

Size:

36 acres

Estimated Percent of Very Poorly Drained Soils: 90%

Field Soils Verification Plots: Plot 15-A along the railroad tracks

Classification(s) in 2002 Wetland Mapping: PEM1Eb

Classification Change since 2002: No

Boundary Verification

Changes to boundary: Yes, minor fingers

Inlet Streams: No

Outlet Streams: Yes, to the south

Ecological Integrity

Recent Impacts since 2002: No

Recent Buffer Development since 2002: No

Potential Water Quality Impacts: Significant untreated stormwater runoff

Natural Heritage Elements Present: No

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: Residential 10% / Commercial 50% /

Woodland 40%

Is Wildlife Habitat a Principal Function of this Wetland? Yes, ranks 9th

Does this Wetland Rate High in Educational/Scientific Value? Yes, ranks 8th

Does this wetland provide open vistas? Yes

Is this wetland connected to open space land? Yes, part of well head protection area

Potential Restoration Opportunity

Type of impact to wetland: Water quality degradation

Approximate area of restoration: Several acres

Prime Wetland?

Functional Analysis: Ranks in top ten in most categories of GES study

Does this wetland qualify as prime? Yes

Prime Wetland Recommendation: Yes

Justification: Maintains vegetated buffers on two sides with mature forest habitat; portions

of marsh are diverse and healthy

Wetland ID: 18 & 26 22 23 254

Date: September 2006

Size:

31&+1=42 acres

Estimated Percent of Very Poorly Drained Soils: 80%

Field Soils Verification Plots: Plot 18-A along the railroad bed

Classification(s) in 2002 Wetland Mapping: PEM/SS1E and PUBH/PFO1E

Classification Change since 2002: No, but beaver are active

Boundary Verification

Changes to boundary: Yes, minor in southeastern corner

Inlet Streams: Yes, from wetland 26

Outlet Streams: Yes, to the north

Ecological Integrity

Recent Impacts since 2002: No

Recent Buffer Development since 2002: No

Potential Water Quality Impacts: Yes, from large commercial development to the north

Natural Heritage Elements Present: No

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: Residential 40% / Commercial 40% /

Woodland 20%

Is Wildlife Habitat a Principal Function of this Wetland? Yes, ranks 10th

Does this Wetland Rate High in Educational/Scientific Value? Yes, ranks 5th

Does this wetland provide open vistas? Yes

Is this wetland connected to open space land? Yes

Potential Restoration Opportunity

Type of impact to wetland: Water quality degradation

Approximate area of restoration: several acres

Prime Wetland?

Functional Analysis: Combined wetlands rank in top ten in GES study

Does this wetland qualify as prime? Yes

Prime Wetland Recommendation: Yes

Justification: Pond habitat relatively rare for the city; diverse wetland with vegetated

buffers still present

Wetland ID: 19

Date: September 2006

15.07 Size:

16 acres

Estimated Percent of Very Poorly Drained Soils: 70%

Field Soils Verification Plots: No

Classification(s) in 2002 Wetland Mapping: PSS1E/F01E

Classification Change since 2002: No

Boundary Verification

Changes to boundary: Yes, minor along eastern boundary

Inlet Streams: Yes, drainages

Outlet Streams: Yes, to Sagamore Creek (Wetland 61A)

Ecological Integrity

Recent Impacts since 2002: No

Recent Buffer Development since 2002: Yes, at Tuckers Cove development to the east

Potential Water Quality Impacts: Minimal

Natural Heritage Elements Present: No

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: Residential 60% / Woodland 40%

Is Wildlife Habitat a Principal Function of this Wetland? Yes

Does this Wetland Rate High in Educational/Scientific Value? Yes, ranks 7th

Does this wetland provide open vistas? Yes

Is this wetland connected to open space land? Yes, part of Urban Forestry Center

Potential Restoration Opportunity

Type of impact to wetland: No

Approximate area of restoration: N/A

Prime Wetland?

Functional Analysis: Ranks high in finfish habitat and education potential in GES study

Does this wetland qualify as prime? Yes

Prime Wetland Recommendation: Yes

Justification: Maintains vegetated buffers and has uncommon wet meadow habitat;

tributary to Sagamore Creek Estuary

Wetland ID:

Date: September 2006

Size:

Estimated Percent of Very Poorly Drained Soils: 90%

Field Soils Verification Plots: 023-A along railroad bed

Classification(s) in 2002 Wetland Mapping: PFO4E & PFO1E

Classification Change since 2002: No

Boundary Verification

Changes to boundary: Yes, along northern boundary

Inlet Streams: No

Outlet Streams: Connected to Packer Bog

Ecological Integrity

Recent Impacts since 2002: No

Recent Buffer Development since 2002: Yes, along northern boundary

Potential Water Quality Impacts: Yes, from stormwater runoff

Natural Heritage Elements Present: Atlantic White Cedar stands

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: Residential 30% / Woodland 70%

Is Wildlife Habitat a Principal Function of this Wetland? Yes

Does this Wetland Rate High in Educational/Scientific Value? Yes, ranked 6th

Does this wetland provide open vistas? Yes

Is this wetland connected to open space land? Yes, Packer Bog in Greenland

Potential Restoration Opportunity

Type of impact to wetland: No

Approximate area of restoration: N/A

Prime Wetland?

Functional Analysis: Ranks 6th in GES study for most functions and values

Does this wetland qualify as prime? Yes

Prime Wetland Recommendation: Yes

Justification: Contiguous to Packer Bog in Greenland; extensive stands of Atlantic White

Cedar



Wetland ID: 61A

Date: September 2006

Size: 120 acres

Estimated Percent of Very Poorly Drained Soils: 100%

Field Soils Verification Plots: Plot A along Route 1

Classification(s) in 2002 Wetland Mapping: PEM1 (wrong)

Classification Change since 2002: E2EM1P - not a change, but a correction

Boundary Verification

Changes to boundary: Yes, mudflats were eliminated because

they are not vegetated wetlands

Inlet Streams: Yes, Sagamore Creek

Outlet Streams: Tidal estuary

Ecological Integrity

Recent Impacts since 2002: No

Recent Buffer Development since 2002: New subdivision Tucker's Cove

Potential Water Quality Impacts: Runoff from Route 1 and associated commercial

development

Natural Heritage Elements Present: Artic / common terns feeding habitat

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: Residential 30% / Commercial 20% / Woodland 50%

Is Wildlife Habitat a Principal Function of this Wetland? Yes, fisheries and tidal marsh habitat

Does this Wetland Rate High in Educational/Scientific Value? Yes, 3rd in GES study

Does this wetland provide open vistas? One of the highest ranking for visual aesthetic quality

Is this wetland connected to open space land? Yes

Potential Restoration Opportunity

Type of impact to wetland: Water quality degradation

Approximate area of restoration: N/A

Prime Wetland?

Functional Analysis: ranks 4th in GES study for most functions and values

Does this wetland qualify as prime? Yes

Prime Wetland Recommendation: Yes

Justification: Most important estuary / salt marsh in Portsmouth

WEST ENVIRONMENTAL :

West Environmental Inc. Portsmouth Vegetated Tidal Marsh Evaluation Date: September 2006 Wetland ID: 61A Wetland Size: 120 acres Wetland Classification: E2EM1P Type of Marsh System: Coastal/Back Barrier Marsh yes Marsh derives most of its sediments from sea water No major tidal rivers flow into this marsh Marsh located adjacent to Atlantic coast Dominated by Spartina patens Estuarine Marsh Marsh derives majority of sediment from freshwater _X_ Associated with major tidal river and/or bay Meadow Marsh Contains more than 50% high marsh Dominated by Spartina patens Fringe Marshes Exposed to wind and wave energy Located along river and bay shoreline Minimal high marsh Gentle grade from open water to upland Dominated by Spartina alterniflora Ecological Integrity: Land use within 500 foot zone of influence _10%_ Roads _5%_ Parking Lots _10%_ Freshwater wetlands _55%_ Forested 20% Residential _X_Invasive plants present _NO_Tidal Restrictions present _X_<5% invasive species ___5% - 20% dominated by invasive species X Is wetland ditched _> 20% dominated by invasive species grid pattern Does restriction restrict seawater into wetland? NO X linear pattern Does restriction detain freshwater from entering wetland? NO Does restriction affect flow? NO _X_Buffer present Shoreline Anchoring: Type of marsh system Wetland morphology _X_estuarine fringe no distinct bank between (receives more erosive energy force). wetland and upland/freshwater wetland estuarine meadow X distinct vegetated bank present ___coastal/back-barrier distinct non-vegetated bank present Finfish & Shellfish Habitat: X Shellfish beds present

- X Ecological impacts present
- X Diverse wetland system
- _X_Wetland connection to freshwater wetland or stream _X_Wetland used for feeding, breeding, protection, or migration
- X Fisheries habitat present



Wetland ID: 61B

1 through 11

Date: September 2006

Size:

Estimated Percent of Very Poorly Drained Soils: 100%

Field Soils Verification Plots: Plot A near Bell Island Bridge

Classification(s) in 2002 Wetland Mapping: PEM1 (wrong)

Classification Change since 2002: E2EM1P – not a change, but a correction

Boundary Verification

Changes to boundary: Yes, mudflats were eliminated because

they are not vegetated wetlands

Inlet Streams: Yes, from Curriers Cove

Outlet Streams: Tidal estuary

Ecological Integrity

Recent Impacts since 2002: No

Recent Buffer Development since 2002: Some house lots

Potential Water Quality Impacts: Runoff from adjacent development

Natural Heritage Elements Present: Artic / common terns feeding habitat

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: Residential 60% / School 20% /

Woodland 20%

Is Wildlife Habitat a Principal Function of this Wetland? Yes, fisheries and tidal marsh

habitat

Does this Wetland Rate High in Educational/Scientific Value? Yes, directly adjacent to

Little Harbour School

Does this wetland provide open vistas? One of the higher ranking for visual aesthetic quality

Is this wetland connected to open space land? Yes, cemetery

Potential Restoration Opportunity

Type of impact to wetland: Water quality degradation

Approximate area of restoration: N/A

Prime Wetland?

Functional Analysis: Not ranked in GES study, but very high valued tidal marsh habitat

Does this wetland qualify as prime? Yes

Prime Wetland Recommendation: Yes

Justification: Important estuary / salt marsh in Portsmouth

Wetland ID: 62

43.54

Date: September 2006

Size: .

110 acres

Estimated Percent of Very Poorly Drained Soils: 85%

Field Soils Verification Plots: Plot A along railroad bed

Classification(s) in 2002 Wetland Mapping: PEM1 (wrong)

Classification Change since 2002: E2EM1P - not a change, but a correction

Boundary Verification

Changes to boundary: No

Inlet Streams: Yes, Sagamore Creek

Outlet Streams: Creek flows under Route 1

Ecological Integrity

Recent Impacts since 2002: No

Recent Buffer Development since 2002: Commercial re-development

Potential Water Quality Impacts: Runoff from commercial development surrounding

wetland

Natural Heritage Elements Present: Artic / common terns feeding habitat

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: Residential 50% / Commercial 20% / Woodland 30%

Is Wildlife Habitat a Principal Function of this Wetland? Yes, fisheries and salt marsh

Does this Wetland Rate High in Educational/Scientific Value? Yes, but not in GES study

Does this wetland provide open vistas? Yes

Is this wetland connected to open space land? No

Potential Restoration Opportunity

Type of impact to wetland: Water quality degradation

Approximate area of restoration: N/A

Prime Wetland?

Functional Analysis: ranks 7th in GES study for most functions and values

Does this wetland qualify as prime? Yes

Prime Wetland Recommendation: Yes

Justification: Part of largest salt marsh system in Portsmouth

WEST ENVIRONMENTAL ...

West Environmental Inc. Portsmouth Vegetated Tidal Marsh Ev	aluation	Date: September 2006
Wetland ID: 62 Wetland Size:	44 acres	Wetland Classification: E2EM1P
Type of Marsh System:		
Coastal/Back Barrier Marsh Marsh derives most of its sediments from sea water No major tidal rivers flow into this marsh Marsh located adjacent to Atlantic coast Dominated by Spartina patens	yes noX	
Estuarine Marsh Marsh derives majority of sediment from freshwater Associated with major tidal river and/or bay	X	
Meadow Marsh Contains more than 50% high marsh Dominated by Spartina patens	<u> </u>	
Fringe Marshes Exposed to wind and wave energy Located along river and bay shoreline Minimal high marsh Gentle grade from open water to upland Dominated by Spartina alterniflora	X X X X X X	
Ecological Integrity:		
Land use within 500 foot zone of influence30%_ Residential10%_ Roads30%_ Park	ting Lots _1	0%_ Freshwater wetlands _20%_ Forested
X Invasive plants present X <5% invasive species 5% - 20% dominated by invasive species > 20% dominated by invasive species Does restriction restrict seawater into wetland Does restriction detain freshwater from enterion Does restriction affect flow? Yes, minor		_YES_Tidal Restrictions present _X_ls wetland ditched
Shoreline Anchoring:		
Type of marsh system _X_estuarine fringe (receives more erosive energy force) estuarine meadow coastal/back-barrier	Wetland m	norphology _no distinct bank between wetland and upland/freshwater wetland <_distinct vegetated bank present _distinct non-vegetated bank present
Finfish & Shellfish Habitat:		
X_Shellfish beds present X_Ecological impacts present X_Diverse wetland system X_Wetland connection to freshwater wetland or street X_Wetland used for feeding, breeding, protection, or X_Fisheries habitat present		WEST 🚬
		W L'U I

Wetland ID: 003B

Date: September 2006

ENVIRONMENTAL

18.65 Size:

19 acres

Estimated Percent of Very Poorly Drained Soils: 75%

Field Soils Verification Plots: Plot 003B-A along railroad tracks

Classification(s) in 2002 Wetland Mapping: PFO1E/SS1 & PEM1E/SS1E

Classification Change since 2002: Some die back of canopy - PF05

Boundary Verification

Changes to boundary: No

Inlet Streams: No, just runoff

Outlet Streams: Drainage into 003A

Ecological Integrity

Recent Impacts since 2002: No

Recent Buffer Development since 2002: Yes, Griffin Ave

Potential Water Quality Impacts: Yes, from Interstate 95

Natural Heritage Elements Present: No

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: Highway 65% / Wetland across RR 25%

/ Commercial 10%

Is Wildlife Habitat a Principal Function of this Wetland? No

Does this Wetland Rate High in Educational/Scientific Value? No

Does this wetland provide open vistas? Yes

Is this wetland connected to open space land? No

Potential Restoration Opportunity

Type of impact to wetland: Water quality degradation

Approximate area of restoration: 20%

Prime Wetland?

Functional Analysis: Ranks relatively low

Does this wetland qualify as prime? Yes

Prime Wetland Recommendation: No.

Justification: Fragmented wetland surrounded by highway off ramp and railroad bed with

invasive species present

Wetland ID: 004

Date: September 2006

Size:

5+ acres

Estimated Percent of Very Poorly Drained Soils: 25%

Field Soils Verification Plots: Off Girl Scout trail

Classification(s) in 2002 Wetland Mapping: N/A

Classification Change since 2002: PFO1/4E

Boundary Verification

Changes to boundary: N/A

Inlet Streams: Yes, from southwest

Outlet Streams: Yes, to northeast under Banfield Road

Ecological Integrity

Recent Impacts since 2002: None

Recent Buffer Development since 2002: Minor along Banfield Road

Potential Water Quality Impacts: Yes, from Banfield Road runoff

Natural Heritage Elements Present: No

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: Commercial 20% / Woodland 80%

Is Wildlife Habitat a Principal Function of this Wetland? Yes

Does this Wetland Rate High in Educational/Scientific Value? Yes, with Scout property

Does this wetland provide open vistas? Limited

Is this wetland connected to open space land? Yes

Potential Restoration Opportunity

Type of impact to wetland: None

Approximate area of restoration: N/A

Prime Wetland?

Functional Analysis: 6 out of 7 principal functions

Does this wetland qualify as prime? No

Prime Wetland Recommendation: No

Justification: Does not qualify



Wetland ID: 13A

Date: September 2006

Size:

39.97 25 acres in two areas

Estimated Percent of Very Poorly Drained Soils: 60%

Field Soils Verification Plots: Plot 13A-A behind high school

Classification(s) in 2002 Wetland Mapping: PFO1/SS1E

Classification Change since 2002: Some areas of emergent wetland

Boundary Verification

Changes to boundary: Extensive changes eliminating 30%

of wetland area and separating them

into two areas

Inlet Streams: Yes, from north

Outlet Streams: Through culvert to Wetland 13B

Ecological Integrity

Recent Impacts since 2002: Additional upgrades to high school

Recent Buffer Development since 2002: High school additions

Potential Water Quality Impacts: Stormwater runoff

Natural Heritage Elements Present: No

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: High school 40% / Residential 50% /

Woodland 10%

Is Wildlife Habitat a Principal Function of this Wetland? No

Does this Wetland Rate High in Educational/Scientific Value? It has the opportunity with its proximity to the high

school

Does this wetland provide open vistas? No

Is this wetland connected to open space land? No

Potential Restoration Opportunity

Type of impact to wetland: Water quality degradation from stormwater runoff

Approximate area of restoration: N/A

Prime Wetland?

Functional Analysis: Ranking is inaccurate because of size discrepancy; it actually ranks lower

than GES study indicates

Does this wetland qualify as prime? Yes

Prime Wetland Recommendation: No

Justification: Fragmented disturbed wetland system with degraded wildlife habitat

Wetland ID: 13B

5.17

Date: September 2006

Size: 5

5-2 acres

Estimated Percent of Very Poorly Drained Soils: 80%

Field Soils Verification Plots: Plot 13B-A next to ball fields

Classification(s) in 2002 Wetland Mapping: PSS1/FO1E

Classification Change since 2002: No

Boundary Verification

Changes to boundary: No

Inlet Streams: Yes, from Wetland 13A

Outlet Streams: Yes, to Sagamore Creek (Wetland 61A)

Ecological Integrity

Recent Impacts since 2002: None

Recent Buffer Development since 2002: No

Potential Water Quality Impacts: Yes, runoff from adjacent ball fields could contain

fertilizers

Natural Heritage Elements Present: No

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: Residential 25% / Commercial 25% /

High school 25% / Woodland 25%

Is Wildlife Habitat a Principal Function of this Wetland? Yes

Does this Wetland Rate High in Educational/Scientific Value? No, but it has the

opportunity

Does this wetland provide open vistas? Yes

Is this wetland connected to open space land? Yes, Sagamore Creek (?)

Potential Restoration Opportunity

Type of impact to wetland: Water quality degradation

Approximate area of restoration: Area adjacent high school

Prime Wetland?

Functional Analysis: Ranks low in GES study, very small size

Does this wetland qualify as prime? Yes

Prime Wetland Recommendation: No

Justification: Small size, adjacent development, invasive species and historic disturbance

Wetland ID: 14

1987

Date: September 2006

Size:

20 acres

Estimated Percent of Very Poorly Drained Soils: 90%

Field Soils Verification Plots: Plot 14-A adjacent to hospital parking lot

Classification(s) in 2002 Wetland Mapping: PEM1E

Classification Change since 2002: PSS1E could be added

Boundary Verification

Changes to boundary: Yes, entire southern finger should be

eliminated

Inlet Streams: No

Outlet Streams: No

Ecological Integrity

Recent Impacts since 2002: No

Recent Buffer Development since 2002: No

Potential Water Quality Impacts: Yes, from Interstate 95

Natural Heritage Elements Present: No

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: Residential 10% / Commercial 50% /

Highway 25% / Wetland 15%

Is Wildlife Habitat a Principal Function of this Wetland? No

Does this Wetland Rate High in Educational/Scientific Value? No

Does this wetland provide open vistas? Yes

Is this wetland connected to open space land? Yes

Potential Restoration Opportunity

Type of impact to wetland: Water quality degradation from stormwater runoff

Approximate area of restoration: N/A

Prime Wetland?

Functional Analysis: Ranked low in GES study

Does this wetland qualify as prime? Yes

Prime Wetland Recommendation: No

Justification: Surrounded by development with no buffers on three sides and invasive species

Wetland ID: 16

Date: September 2006

50.72

Size: Se acres

Estimated Percent of Very Poorly Drained Soils: 20%

Field Soils Verification Plots: 016-A off Campus Drive

Classification(s) in 2002 Wetland Mapping: PFO1/SS1E

Classification Change since 2002: No

Boundary Verification

Changes to boundary: Yes, southeast finger eliminated

Inlet Streams: No

Outlet Streams: Yes, to north / piped

Ecological Integrity

Recent Impacts since 2002: No

Recent Buffer Development since 2002: Yes, Water Country parking lot upgrades andc

Banfield Road development

Potential Water Quality Impacts: Stormwater runoff from adjacent development

Natural Heritage Elements Present: No

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: Residential 10% / Woodland 20% /

Commercial 60% / Sandpit 10%

Is Wildlife Habitat a Principal Function of this Wetland? Yes

Does this Wetland Rate High in Educational/Scientific Value? Yes, Community Campus

Does this wetland provide open vistas? No

Is this wetland connected to open space land? Yes, recreation land

Potential Restoration Opportunity

Type of impact to wetland: No

Approximate area of restoration: N/A

Prime Wetland?

Functional Analysis: 5 out of 7 principal functions present

Does this wetland qualify as prime? No

Prime Wetland Recommendation: No

Justification: Does not qualify

WEST ENVIRONMENTAL

Wetland ID: 22

Date: September 2006

Size: 22

22 acres

Estimated Percent of Very Poorly Drained Soils: 90%

Field Soils Verification Plots: Along Jones Avenue

Classification(s) in 2002 Wetland Mapping: PEM1E & PSS1E/FO1E

Classification Change since 2002: No

Boundary Verification

Changes to boundary: Yes, minor along northern boundary

Inlet Streams: No

Outlet Streams: Yes, under Jones Avenue to Wetland 13A

Ecological Integrity

Recent Impacts since 2002: No

Recent Buffer Development since 2002: Yes, along southern boundary

Potential Water Quality Impacts: Yes, from stormwater runoff

Natural Heritage Elements Present: No

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: Residential 80% / Woodland 20%

Is Wildlife Habitat a Principal Function of this Wetland? Yes

Does this Wetland Rate High in Educational/Scientific Value? No

Does this wetland provide open vistas? Yes, a few

Is this wetland connected to open space land? No

Potential Restoration Opportunity

Type of impact to wetland: No

Approximate area of restoration: N/A

Prime Wetland?

Functional Analysis: Ranks low in GES study

Does this wetland qualify as prime? Yes

Prime Wetland Recommendation: No

Justification: Surrounded by development with limited vegetated buffers



Wetland ID: 29

Date: September 2006

21.88

Size: 12 acres

Estimated Percent of Very Poorly Drained Soils: 75%

Field Soils Verification Plots: 029-A

Classification(s) in 2002 Wetland Mapping: PSS1/FO1E

Classification Change since 2002: PEM1E

Boundary Verification Changes

Changes to boundary: Major change to western portion

which is all upland

Inlet Streams: No

Outlet Streams: Yes, under Jones Avenue

Ecological Integrity

Recent Impacts since 2002: No

Recent Buffer Development since 2002: Yes, new development on southern boundary of

wetland

Potential Water Quality Impacts: Minor from residential development

Natural Heritage Elements Present: No

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: Residential 80% / Woodland 20%

Is Wildlife Habitat a Principal Function of this Wetland? Yes

Does this Wetland Rate High in Educational/Scientific Value? Yes

Does this wetland provide open vistas? Yes

Is this wetland connected to open space land? No

Potential Restoration Opportunity

Type of impact to wetland: None

Approximate area of restoration: N/A

Prime Wetland?

Functional Analysis: 1 out of 7 in GES Study / WEI found 5 out of 7 functions present

Does this wetland qualify as prime? Yes

Prime Wetland Recommendation: No

Justification: Surrounded by development with minimal vegetated buffers



Wetland ID: 31

Date: September 2006

15.09

Size: 45 acres

Estimated Percent of Very Poorly Drained Soils: 90%

Field Soils Verification Plots: 031-A off Sherburne Street

Classification(s) in 2002 Wetland Mapping: PFO1/SS1E/EM1E

Classification Change since 2002: No

Boundary Verification

Changes to boundary: Minor

Inlet Streams: No.

Outlet Streams: Yes, under Essex Ave to the east

Ecological Integrity

Recent Impacts since 2002: No

Recent Buffer Development since 2002: No

Potential Water Quality Impacts: Yes, from apartment complex

Natural Heritage Elements Present: No

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: Residential 100%

Is Wildlife Habitat a Principal Function of this Wetland? Yes

Does this Wetland Rate High in Educational/Scientific Value? No

Does this wetland provide open vistas? Yes

Is this wetland connected to open space land? No

Potential Restoration Opportunity

Type of impact to wetland: No

Approximate area of restoration: N/A

Prime Wetland?

Functional Analysis: 2 out of 7 in GES Study / WEI found 4 out of 7 functions present

Does this wetland qualify as prime? Yes

Prime Wetland Recommendation: No

Justification: Surrounded by development with minimal vegetated buffers



Wetland ID: 38

4.96

Date: September 2006

Size:

Facres

Estimated Percent of Very Poorly Drained Soils: 50%

Field Soils Verification Plots: No

Classification(s) in 2002 Wetland Mapping: PFO4E

Classification Change since 2002: No

Boundary Verification

Changes to boundary: No

Inlet Streams: No

Outlet Streams: No

Ecological Integrity

Recent Impacts since 2002: No

Recent Buffer Development since 2002: No

Potential Water Quality Impacts: Yes, from stormwater runoff

Natural Heritage Elements Present: No.

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: Residential 70% / Woodland 30%

Is Wildlife Habitat a Principal Function of this Wetland? Yes

Does this Wetland Rate High in Educational/Scientific Value? No

Does this wetland provide open vistas? No

Is this wetland connected to open space land? No - surrounded by development

Potential Restoration Opportunity

Type of impact to wetland: No

Approximate area of restoration: N/A

Prime Wetland?

Functional Analysis: Ranked low in GES Study

Does this wetland qualify as prime? Yes

Prime Wetland Recommendation: No

Justification: Very small (5 acres), surrounded by development, no diverse or unique

habitat

WEST ENVIRONMENTAL

Wetland ID: 44

Date: September 2006

Size:

4.6 acres

Estimated Percent of Very Poorly Drained Soils: 80%

Field Soils Verification Plots: No

Classification(s) in 2002 Wetland Mapping: PFO1E/SS1E

Classification Change since 2002: No

Boundary Verification

Changes to boundary: No

Inlet Streams: Part of a larger wetland in Rye

Outlet Streams: N/A

Ecological Integrity

Recent Impacts since 2002: No

Recent Buffer Development since 2002: No

Potential Water Quality Impacts: No

Natural Heritage Elements Present: Unknown

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: Residential 35% / Woodland 25% / Golf

course 40%

Is Wildlife Habitat a Principal Function of this Wetland? Yes

Does this Wetland Rate High in Educational/Scientific Value? No

Does this wetland provide open vistas? Yes

Is this wetland connected to open space land? Unknown

Potential Restoration Opportunity

Type of impact to wetland: No

Approximate area of restoration: N/A

Prime Wetland?

Functional Analysis: Ranked low in GES study

Does this wetland qualify as prime? Yes

Prime Wetland Recommendation: No

Justification: Most of this wetland is in Rye and the city cannot designate wetlands outside

of Portsmouth



Wetland ID: 50.

Date: September 2006

Size:

5.8 acres Estimated Percent of Very Poorly Drained Soils: less than 50%

Field Soils Verification Plots: No

Classification(s) in 2002 Wetland Mapping: PFO1E/SS1E with an area of PEM1E

Classification Change since 2002: No

Boundary Verification

Changes to boundary: No

Inlet Streams: Yes, from south

Outlet Streams: Yes, from north

Ecological Integrity

Recent Impacts since 2002: No

Recent Buffer Development since 2002: No

Potential Water Quality Impacts: Yes, surrounded by development

Natural Heritage Elements Present: No

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: Residential 50% / Woodland 20% /

Commercial 30%

Is Wildlife Habitat a Principal Function of this Wetland? Yes

Does this Wetland Rate High in Educational/Scientific Value? No

Does this wetland provide open vistas? No

Is this wetland connected to open space land? No

Potential Restoration Opportunity

Type of impact to wetland: Water quality degradation

Approximate area of restoration: N/A

Prime Wetland?

Functional Analysis: Ranked low in GES study

Does this wetland qualify as prime? Yes

Prime Wetland Recommendation: No.

Justification: Very small (6 acres) surrounded by commercial / residential development with minimal vegetated buffers, water quality degragation present

Wetland ID: 117

Date: September 2006

Size: 25 acres

Estimated Percent of Very Poorly Drained Soils: 50%

Field Soils Verification Plots: No

Classification(s) in 2002 Wetland Mapping: PFO1E/SS1E

Classification Change since 2002: Emergent area established

Boundary Verification

Changes to boundary: No

Inlet Streams: Yes, from south

Outlet Streams: Yes, from north under Gosport Road

Ecological Integrity

Recent Impacts since 2002: No

Recent Buffer Development since 2002: Residential subdivision

Potential Water Quality Impacts: Yes, from stormwater runoff

Natural Heritage Elements Present: No

Urban Quality of Life

Dominant Land Use within 1500 feet of wetland: Residential 80% / Woodland 20%

Is Wildlife Habitat a Principal Function of this Wetland? No

Does this Wetland Rate High in Educational/Scientific Value? No

Does this wetland provide open vistas? No

Is this wetland connected to open space land? No

Potential Restoration Opportunity

Type of impact to wetland: No

Approximate area of restoration: N/A

Prime Wetland?

Functional Analysis: Ranked lowest in GES study

Does this wetland qualify as prime? Yes

Prime Wetland Recommendation: No

Justification: Surrounded by residential development with minimal vegetated buffers; not diverse or unique



Appendix B

City Council Action Sheet

From July 10, 2010 Portsmouth City Council Meeting

With Approval to Adopt Prime Wetlands As Described

TO:

JOHN P. BOHENKO, CITY MANAGER

FROM:

VALERIE A. FRENCH, DEPUTY CITY CLERK

RE:

ACTIONS TAKEN BY THE PORTSMOUTH CITY COUNCIL MEETING HELD ON JULY 19, 2010, EILEEN DONDERO FOLEY COUNCIL CHAMBERS, MUNICIPAL COMPLEX, ONE JUNKINS AVENUE, PORTSMOUTH, NEW

HAMPSHIRE

PRESENT:

MAYOR FERRINI, ASSISTANT MAYOR NOVELLINE CLAYBURGH,

COUNCILORS HEJTMANEK, SPEAR, DWYER*, COVIELLO AND SMITH

ABSENT:

COUNCILORS LISTER AND KENNEDY

*Councilor Dwyer participated via conference call, therefore all votes were taken by roll call in compliance with the Right-to-know RSA.

- 1. At 6:00 p.m., an Anticipated "Non-Meeting" with Counsel was held regarding Negotiations RSA 91-A:2, I (b-c).
- 2. Acceptance of Minutes June 21, 2010 Voted on a 7-0 roll call to approve and accept the minutes of the June 21, 2010 City Council meeting.
- 3. <u>Public Comment Session</u> There were 6 speakers: Karina Quintans (Downtown Portsmouth Zero Waste Project); Martin Cameron and Bill St. Laurent (WWI Monuments); Al Lapanne and Bill St. Laurent (Opening Sherburne Gate); Al Silva (Projecting Sign at 19 Congress Street); and Mary Lou McElwain (Red Ginger Sidewalk Obstruction)
- 4. Public Hearing Pursuant to RSA 482-A:15 II on the Designation of Prime Wetlands in Accordance with the Report Prepared for the Conservation Commission by West Environmental in February 2007 Held a public hearing. One speaker, Philip Stokel.
- 5. <u>Acceptance of Conservation License Plate Grant</u> Voted on a 7-0 roll call to authorize the City Manager to accept and expend a \$10,000.00 grant from the State of New Hampshire Division of Historical Resources Conservation License Plate Grant Program for the Morton-Benedict House Roof Project.
- 6. <u>Acceptance of Donations to the Coalition Legal Fund</u> Voted on a 7-0 roll call to approve and accept the donations, as listed, to be placed in the Coalition Legal Fund.
 - Town of Carroll \$1,000.00
 - Town of Moultonborough \$5,000.00
 - Town of Tuftonboro \$5,000.00
- 7. Voted on a 7-0 roll call to suspend the rules to take up Item X.A.1. Prime Wetlands Designation.
- 8. Prime Wetlands Designation Moved to adopt prime wetlands as designated on the Proposed Prime Wetland map with the exception of wetland 007 located on the Pease Tradeport and to authorize the City Manager to forward all necessary supporting documentation to the NH Department of Environmental Services for their review. Motion to table this matter for a report back from Planning Department failed on a 2-5 roll call vote. Main motion passed on a 6-1 roll call vote, Councilor Smith opposed.

- 9. <u>Prime Wetlands Designation</u> Voted on a 7-0 roll call to authorize the City Manager to send a letter to the Pease Development Authority to ask them to seek State designation of wetland 007 as a Prime Wetland.
- 10. Consent Agenda Voted on a 7-0 roll call to adopt the Consent Agenda.
 - A. Letter from James Heinz and Rochelle Jones requesting permission to hold a softball game fundraiser for firefighter Sarah Fox on Sunday, August 22, 2010 at 2:00 p.m. at Alumni Field (Anticipated action move to refer to the City Manager with power)
- 11. Letter from Cindi Blanchette, Portsmouth City Soccer Club, requesting permission to hang banners at Leary field during soccer season from mid August through November (Same conditions as last year) Voted on a 7-0 roll call to refer to the City Manager with power.
- 12. Letter from Richard Adams requesting that the City Council reconsider its action regarding the WW I monuments. Voted on a 6-1 roll call to accept and place the letter on file. Councilor Spear voted opposed.
- 13. Petition requesting to open the back gate on Sherburne Road for a trial period during construction of the bridge over Interstate 95 Voted on a 7-0 roll call to refer to the Traffic and Safety Committee for a report back.
- 14. <u>Letter from Thans Lapanne requesting to change the name of the portion of Sherburne Road on the Tradeport</u> Voted on a 7-0 roll call to refer to the Planning board for a report back.
- 15. Request for License Agreement RE: 51 Islington Street, LLC Voted on a 6-0 roll call to authorize the City Manager to enter into a license agreement with 51 Islington Street LLC to facilitate construction activities. Councilor Coviello abstained from voting on the matter.
- 16. Request for a License from Jeff Casler, owner of the Second Time Around, for property located at 19 Congress Street to install a projecting sign Vote on a 7-0 roll call to accept the recommendation of the Planning Board with the aforementioned stipulations and approve the request of Jeff Casler, owner of Second Time Around, to install a projecting sign on a new bracket at 19 Congress Street and further authorize the City Manager to execute a License Agreement for this request.
 - 1) The license shall be approved by the Legal Department as to content and form;
 - 2) Any removal or relocation of the projecting sign, for any reason, will be done at no cost to the City; and
 - 3) Any disturbance of a sidewalk, street or other public infrastructure resulting from the installation, relocation or removal of the projecting sign, for any reason, shall be restored at no cost to the City and shall be subject to review and acceptance by the Department of Public Works.

- 17. <u>Approval of Downtown Portsmouth Zero Waste Project</u> Voted on a 7-0 roll call to authorize the City Manager to proceed with the placement of recycling containers in downtown Portsmouth, as presented at the work session and the map location.
- 18. Report Back Re: Red Ginger, LLC, 261 South Street Voted on a 7-0 roll call to approve the extension of the Sidewalk Obstruction License for the Red Ginger, 261 South Street for the remainder of the year at which time it is renewable annually.
- 19. Request to Establish a Work Session with Recreation Board Re: Recreation Needs Study Voted on a 7-0 roll call to establish a work session with the Recreation Board regarding the Recreation Needs Study on Tuesday, September 7, 2010 at 6:00 p.m.
- 20. Representatives to the Rockingham Metropolitan Planning Organization (MPO) Technical Advisory (TAC) Voted on a 7-0 roll call to designate Steve Parkinson, Public Works Director, Dave Allen, Deputy Public Works Director (alternate) and Rick Taintor, Planning Director (alternate) to act as the City's representatives to the Rockingham Metropolitan Planning Organization (MPO) Technical Advisory Committee (TAC) for the July 2010 June 30, 2013 term
- 21. <u>Appointment to be Voted Elissa Hill Stone Appointment as an Alternate to the Conservation Commission</u> Voted on a 7-0 roll call to appoint Elissa Hill Stone as an alternate to the Conservation Commission with term to expire 04/01/2013.
- 22. <u>Acceptance of Resignation Susanne Delaney Economic Development Commission Voted on a 7-0 roll call to accept the resignation of Susanne Delaney from the Economic Development Commission with regret and a letter of appreciation.</u>
- 23. Report Back from School Board Re: Final Budget Adjustments Voted on a 7-0 roll call to place on file the list of final adjustments made by the Portsmouth School Board to the FY2010 Budget.
- 24. <u>Letter from First Lady Michelle Obama Re: Preserve America Community Designation</u> Voted on a 7-0 roll call to place Letter from First Lady Michelle Obama regarding Preserve American Community Designation on file.
- 25. Mayor's Report Request from African Burying Ground Committee to make a presentation before the Council. Mayor Ferrini submitted into the record a letter from Vernis Jackson, Chair, African Burying Ground Committee, requesting to make a presentation to the City Council with a suggested date of September 20, 2010.
- 26. Parking Committee Action Sheet and Minutes of the July 8, 2010 meeting. Voted on a 7-0 roll call to approve and accept the action sheet and minutes of the July 8, 2010 Parking Committee meeting.
- 27. Adjournment At 8:35 p.m., voted on a 7-0 roll call to adjourn.

Respectfully submitted by: Valerie A. French, Deputy City Clerk I

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