

One Cambridge Place, 50 Hampshire Street Cambridge, Massachusetts 02139 tel: +1 617 452-6000 fax: +1 617 452-8000

August 4, 2010

Boston Conservation Commission Boston City Hall One City Plaza Boston, MA 02021

Subject:

Notice of Intent - Back Bay Fens Interim II Invasive Vegetation Control Plan

City of Boston Parks and Recreation Department - Applicant

Dear Commission Members:

On behalf of our client, the City of Boston Parks and Recreation Department (the BPRD), Camp Dresser & McKee Inc. (CDM) is pleased to submit this Notice of Intent (NOI) for the above-referenced project. The BPRD proposes to control *Phragmites* growth within a defined area between the Victory Gardens and the Muddy River in the Back Bay Fens.

This work is necessary to control *Phragmites* stands that are encroaching on public walkways near the Victory Gardens. The tall, dense vegetation is a public safety concern for park users and gardeners. As such, the BPRD is proposing an interim invasive vegetation control plan to address *Phragmites* growth within an approximate 86,400 square foot area which includes *Phragmites* cutting within the following resource areas: 5,400 square feet in Bordering Vegetated Wetland, 63,570 square feet in Land Under Water, 17,430 square feet (3,725 linear feet) along inland Bank, and 18,720 square feet within Riverfront Area and Bordering Land Subject to Flooding.

The vegetation control proposed by the BPRD consists solely of mechanical cutting (i.e. mowing). Removal will three to four times during the growing season, or when the vegetation reaches a height of 4 feet, whichever comes first, in a defined area within BVW, LUW and inland Bank. No herbicide use is proposed as part of this plan. The invasive vegetation control plan will remain in effect until final removal of vegetation is achieved with the implementation of the Muddy River Flood Control, Water Quality, Habitat Enhancement, and Historic Preservation Project (Muddy River Project). This plan is proposed as an ongoing interim measure to control invasive vegetation growth until that time.

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Boston Conservation Commission August 4, 2010 Page 2

Please call me at (617) 452-6601 if you would like to schedule a site visit or have any questions regarding this submittal. We look forward to working with you on this project.

Very truly yours,

Swight R. Dunk

Environmental Scientist

Camp Dresser & McKee Inc.

cc: DEP-NERO

Margaret Dyson, Boston Parks and Recreation Department

Bruce Conklin, CDM

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Notice of Intent Form

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Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP: MassDEP File Number **Document Transaction Number** Boston

City/Town

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





Note: Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

A. General Information

Back Bay Fens - V	ictory Gardens area	Boston	02215
a. Street Address		b. City/Town	c. Zip Code
I akkuda and I anaii	tuda	71°5′ 35"	42°20' 42"
Latitude and Longi	lude.	d. Latitude	e. Longitude
N/A		0504175000 (nort	h Agassiz Road)
f. Assessors Map/Plat N	lumber	g. Parcel /Lot Number	
Applicant:			
Margaret		Dyson	
a. First Name		b. Last Name	
	Recreation Department		
c. Organization			
1010 Massachuset	ts Ave.		
d. Street Address		λ <i>1</i> Λ	02118
Boston e. City/Town		MA f. State	q. Zip Code
	617 605 0170	margaret.dyson@cityo	~ .
617-961-3028 h. Phone Number	617-635-3173 i. Fax Number	i. Email Address	Judaton.gov
• • • • • • • • • • • • • • • • • • • •	•	•	
c. Organization d. Street Address			
e. City/Town	···	f. State	g. Zip Code
h. Phone Number	i. Fax Number	j. Email address	
Representative (if a	any):		
Dwight		Dunk	
a, First Name		b. Last Name	
		U. Last Name	
Camp Dresser & M	1cKee, Inc	U. Last Name	
Camp Dresser & M		U. Last Name	
Camp Dresser & M c. Company 50 Hampshire Stre		U. Last Name	
Camp Dresser & M c. Company 50 Hampshire Stre d. Street Address			
Camp Dresser & M c. Company 50 Hampshire Stre d. Street Address Cambridge		MA	02139
Camp Dresser & M c. Company 50 Hampshire Stre d. Street Address Cambridge e. City/Town	eet ,	MA f. State	02139 g. Zip Code
Camp Dresser & M c. Company 50 Hampshire Stre d. Street Address Cambridge e. City/Town 617-452-6601	et	MA f. State dunkdr@cdm.com	***************************************
Camp Dresser & M c. Company 50 Hampshire Stre d. Street Address Cambridge e. City/Town 617-452-6601	eet ,	MA f. State	
Camp Dresser & M c. Company 50 Hampshire Stre d. Street Address Cambridge e. City/Town 617-452-6601 h. Phone Number Total WPA Fee Pa	617-452-6601 i. Fax Number id (from NOI Wetland Fe	MA f. State dunkdr@cdm.com j. Email address	
Camp Dresser & M c. Company 50 Hampshire Stre d. Street Address Cambridge e. City/Town 617-452-6601 h. Phone Number	617-452-6601 i. Fax Number id (from NOI Wetland Ferof Boston)	MA f. State dunkdr@cdm.com j. Email address e Transmittal Form):	***************************************



Massachusetts Department of Environmental Protection

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A. General Information (continued)

6.	General Project Description:			
	Invasive vegetation control plan adjacent to Victory cutting back invasive species 3-4 times during the gheight of 4 feet, whichever comes first.			
7a.	Project Type Checklist:			
	1. Single Family Home	2. Residential Subdivision		
	3.	4. Commercial/Industrial		
	5. Dock/Pier	6. Utilities		
	7. Coastal Engineering Structure	8. Agriculture (e.g., cranberries, forestry)		
	9. Transportation	10. 🛛 Other		
7b.	Is any portion of the proposed activity eligible to be treated as a limited project subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?			
	1. Yes No If yes, describe which limite	ed project applies to this project:		
	2. Limited Project			
8.	Property recorded at the Registry of Deeds for:			
	Suffolk			
	a. County	b. Certificate # (if registered land)		
	c. Book	d. Page Number		
В.	Buffer Zone & Resource Area Impa	acts (temporary & permanent)		
1.	☐ Buffer Zone Only – Check if the project is locate	ed only in the Buffer Zone of a Bordering		

2. Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Vegetated Wetland, Inland Bank, or Coastal Resource Area.

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

HESOUI	CE MIEd
a. 🛛	Bank
b. 🗵	Bordering Vegetated Wetland
c. 🛛	Land Under Waterbodies and

Waterways

Size of Proposed Alteration	Proposed Replacement (if any)
approximately 3,725	0
1. linear feet	2. linear feet
approximately 5,400	0
1. square feet	2. square feet
approximately 63,570	0
1. square feet	2. square feet
0	
3. cubic yards dredged	_



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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

	Resour	<u>ce Area</u>	Size of Proposed Alteration	Proposed Replacement (if any)
	d. 🛛	Bordering Land Subject to Flooding	approximately 18,720	0 2. square feet
			0	0
			3. cubic feet of flood storage lost	4. cubic feet replaced
	е. 🔲	Isolated Land	-	
		Subject to Flooding	1. square feet	
			2. cubic feet of flood storage lost	3. cubic feet replaced
	5-7		Muddy River	•
	f. 🛛	Riverfront Area	Name of Waterway (if available)	
	2. \	Width of Riverfront Area (ch	neck one):	
		25 ft Designated De	ensely Developed Areas only	
		100 ft New agricultu	ural projects only	
		200 ft All other proje	ects	
 3. Total area of Riverfront Area on the site of the proposed project: 42,515 square feet 4. Proposed alteration of the Riverfront Area: 				~~~
18,720			18,720	0
	a. t	otal square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.
	5. l	Has an alternatives analysis	s been done and is it attached to th	is NOI? Yes No
	6. \	Was the lot where the activi	ty is proposed created prior to Aug	rust 1, 1996? Xes No
3.	☐ Coa	astal Resource Areas: (See	310 CMR 10.25-10.35)	
	Check all that apply below. Attach narrative and supporting documentation describing how the proje will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.			
	Resou	rce Area	Size of Proposed Alteration	Proposed Replacement (if any)
	а. 🔲	Designated Port Areas	Indicate size under Land Under	the Ocean, below
	b. 🔲	Land Under the Ocean	1. square feet	
			2. cubic yards dredged	
	с. 🗌	Barrier Beach	Indicate size under Coastal Beac	hes and/or Coastal Dunes below
	d. 🔲	Coastal Beaches	1. square feet	2. cubic yards beach nourishment
	e. 🗌	Coastal Dunes	1. square feet	2. cubic vards dune nourishment

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Online Users: Include your document transaction number

(provided on your receipt page) with all supplementary information you submit to the Department.



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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

			Size of Proposed Alteration	Proposed Replacement (if any)	
	f	Coastal Banks	1. linear feet		
	g. 🗌	Rocky Intertidal Shores	1. square feet	-	
	h. 🔲	Salt Marshes	1. square feet	2. sq ft restoration, rehab., creation	
	i. 🗌	Land Under Salt Ponds	1. square feet	-	
	j. 🔲	Land Containing	2. cubic yards dredged		
		Shellfish	1. square feet	•	
	k. 🔲	Fish Runs		nks, inland Bank, Land Under the ler Waterbodies and Waterways,	
	ı.	Land Subject to	1. cubic yards dredged		
		Coastal Storm Flowage	1. square feet	-	
4.	4. Restoration/Enhancement If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.				
	a. squar	e feet of BVW	b. square feet of	Salt Marsh	
5.	☐ Pro	oject Involves Stream Cros	sings		
	a. numb	er of new stream crossings	b. number of rep	lacement stream crossings	
C.	Othe	r Applicable Stan	dards and Requiremer	nts	
St	reamlir	ed Massachusetts End	dangered Species Act/Wetlar	nds Protection Act Review	
1.	Is any portion of the proposed project located in Estimated Habitat of Rare Wildlife as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the <i>Massachusetts Natural Heritage Atlas</i> or go to http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/priority_habitat/online_viewer.htm .				
	a. 🔲 🗎	′es ⊠ No If yes, in	clude proof of mailing or hand	delivery of NOI to:	
	2008 E	Divis dition Rout	ral Heritage and Endangered Speci ion of Fisheries and Wildlife e 135, North Drive borough, MA 01581	es Program	



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C. Other Applicable Standards and Requirements (cont'd)

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.C, and include requested materials with this Notice of Intent (NOI); OR complete Section C.1.d, if applicable. If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).

1.	c. Subi	mit Supplemental Information for Endanger	ed Species Review*		
	1.	Percentage/acreage of property to be altered:			
		(a) within wetland Resource Area	percentage/acreage		
		(b) outside Resource Area	percentage/acreage		
	2.	Assessor's Map or right-of-way plan or	f site		
	3.	Project plans for entire project site, inc wetlands jurisdiction, showing existing and tree/vegetation clearing line, and clearly d	d proposed conditions, exist	ting and proposed	
		(a) Project description (including description buffer zone)	iption of impacts outside of	wetland resource area &	
(b) Photographs representative of the site					
(c) MESA filing fee (fee information available at: http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_fee_schedule.htm Make check payable to "Commonwealth of Massachusetts - NHESP" and <i>mail to</i> NHESP at above address					
	Projects altering 10 or more acres of land, also submit:				
		(d) Vegetation cover type map of site			
		(e) Project plans showing Priority & Es	timated Habitat boundaries		
	d. OR	Check One of the Following			
	1. [Project is exempt from MESA review. Attach applicant letter indicating which http://www.mass.gov/dfwele/dfw/nhes the NOI must still be sent to NHESP if 310 CMR 10.37 and 10.59.)	p/regulatory_review/mesa/r	nesa_exemptions.htm;	
	2. [Separate MESA review ongoing.	a. NHESP Tracking #	b. Date submitted to NHESP	

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^{*} Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see http://www.mass.gov/dfwele/dfw/nhesp/nhesp.htm, regulatory review tab). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

^{**} MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



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Boston City/Town

	C.	Other App	olicabl	e Standards and R	equire	ments (cont'd)
		In	clude cop	ESA review completed. y of NHESP "no Take" deter approved plan.	rmination	or valid Conservation & Management
	2.	For coastal pro- line or in a fish		, is any portion of the propo	sed proje	ct located below the mean high water
•		a. Not appl	iicable – p	roject is in inland resource a	area only	
		b. Yes] No	If yes, include proof of maili	ing or han	d delivery of NOI to either:
				South Shore - Cohasset to Rhe Island, and the Cape & Islands		North Shore - Hull to New Hampshire:
				Division of Marine Fisheries - Southeast Marine Fisheries St Attn: Environmental Reviewer 1213 Purchase Street – 3rd Fl New Bedford, MA 02740-6694	oor	Division of Marine Fisheries - North Shore Office Attn: Environmental Reviewer 30 Emerson Avenue Gloucester, MA 01930
		please contact	MassDE			coastal towns in the Northeast Region, n the Southeast Region, please contact
	3.	Is any portion	of the prop	posed project within an Area	a of Critica	al Environmental Concern (ACEC)?
Online Users: Include your document		a. 🗌 Yes 🛭				structions to WPA Form 3 or MassDEP electronic filers click on Website.
transaction number		b. ACEC				
(provided on your receipt page) with all	4.					ed as an Outstanding Resource Water uality Standards, 314 CMR 4.00?
supplementary information you		a. 🗌 Yes 🛚	No			
submit to the Department.	5.					der under the Inland Wetlands s Restriction Act (M.G.L. c. 130, § 105)?
		a. Yes	No			
	6.	Is this project s	subject to	provisions of the MassDEP	Stormwat	ter Management Standards?
		a. Yes. A	ittach a co	py of the Stormwater Repor 10 CMR 10.05(6)(k)-(q) and	rt as requi	red by the Stormwater Management
		1. 🔲 Ap	plying for		LID) site o	design credits (as described in ter 3)
		2. 🔲 A	portion of	the site constitutes redevelo	pment	
		3. 🔲 Pr	oprietary l	BMPs are included in the St	ormwater	Management System.
		b. 🛛 No. Ch	neck why t	he project is exempt:		
		1. 🗌 Sii	ngle-famil	/ house		



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C.	C. Other Applicable Standards and Requirements (cont'd)						
	2. [Emergency road repair					
	3. [Small Residential Subdivision (less than equal to 4 units in multi-family housing)					
D.	Add	itional Information					
	Applica	nts must include the following with this Notic	e of Intent (NOI). See i	nstructions for details.			
		Users: Attach the document transaction nur g information you submit to the Department.		receipt page) for any of the			
	1. 🛛	USGS or other map of the area (along with sufficient information for the Conservation C (Electronic filers may omit this item.)					
	2. 🛛	Plans identifying the location of proposed as Bordering Vegetated Wetland [BVW] replica the boundaries of each affected resource ar	ation area or other mitig				
	з. 🛚	Identify the method for BVW and other reso Field Data Form(s), Determination of Applic and attach documentation of the methodolog	ability, Order of Resour				
	4. 🛛	List the titles and dates for all plans and oth	er materials submitted	with this NOI.			
	See	e Table of Contents					
	a. P	lan Title					
	b. P	repared By	c. Signed and Stamped by				
d. Final Revision Date e. Scale							
	f. Ac	Iditional Plan or Document Title		g. Date			
	5. 🔲	If there is more than one property owner, plelisted on this form.	ease attach a list of the	se property owners not			
	6. 🔲	Attach proof of mailing for Natural Heritage	and Endangered Speci	es Program, if needed.			
	7. 🔲	Attach proof of mailing for Massachusetts D	ivision of Marine Fishe	ries, if needed.			
	8. 🗍	Attach NOI Wetland Fee Transmittal Form					

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Attach Stormwater Report, if needed.



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E. Fees

1. Example: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

Fee Exempt - Applicant is City of Boston	
2. Municipal Check Number	3. Check date
4. State Check Number	5. Check date
6. Payor name on check: First Name	7. Payor name on check: Last Name

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

1. Signature of Applicant	2. Date
3. Signature of Property Owner (if different) Archier B. Payerrer	4. Date 8/4/10
5. Signature of Representative (if any)	6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

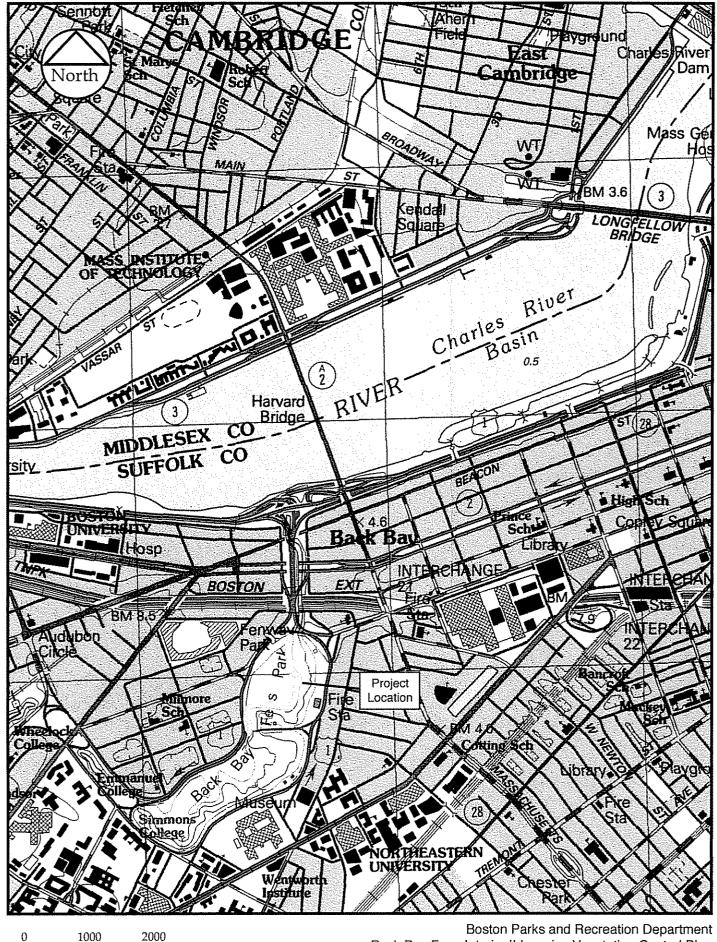
One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.

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CDM

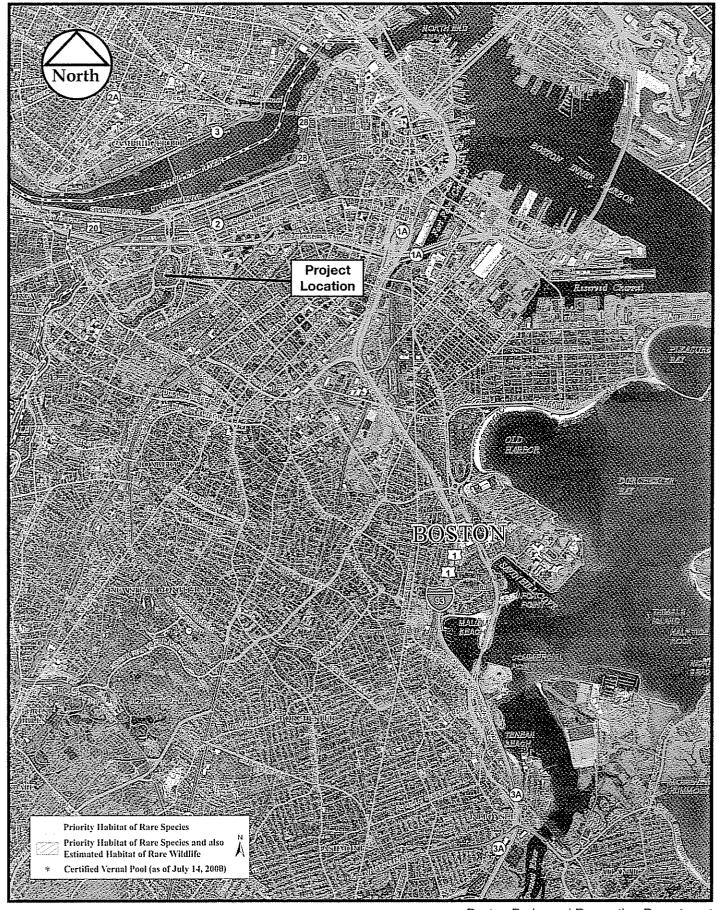
Scale in Feet

Back Bay Fens Interim II Invasive Vegetation Control Plan

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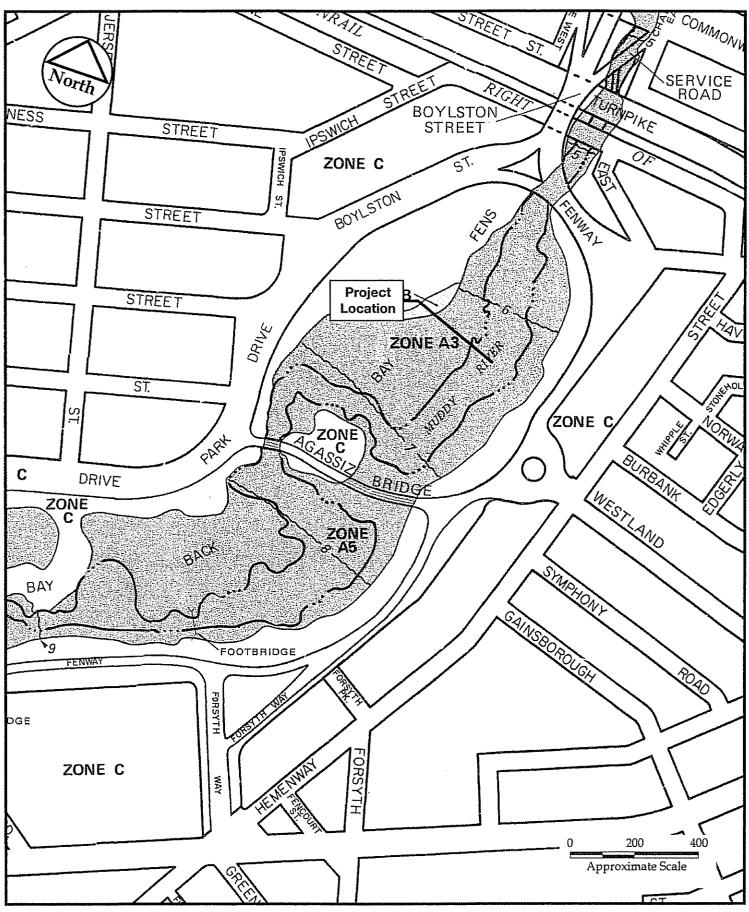


Source: Massachusetts Natural Heritage Atlas 2008 Edition: Boston Quadrangle Boston Parks and Recreation Department Back Bay Fens Interim II Invasive Vegetation Control Plan



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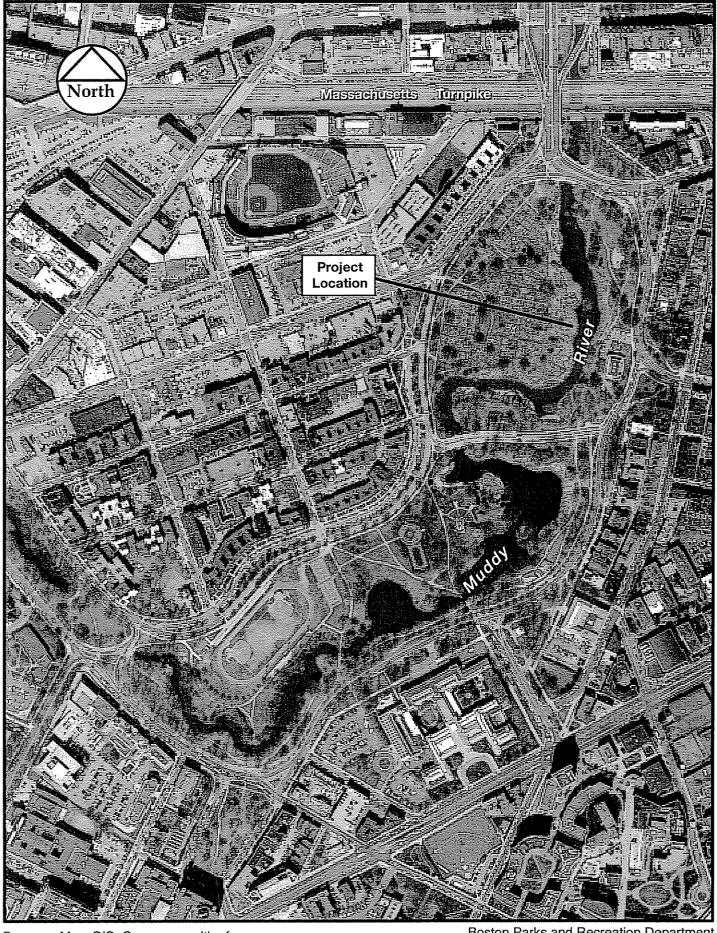
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Source: FEMA Flood Insurance Rate Map Community Panel 250286 0010C Boston Parks and Recreation Department Back Bay Fens Interim II Invasive Vegetation Control Plan

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Source: MassGIS, Commonwealth of Massachusetts EOEA

Boston Parks and Recreation Department Back Bay Fens Interim II Invasive Vegetation Control Plan

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VIII

Attachment A Project Narrative

1.0 Introduction

The City of Boston Parks and Recreation Department (BPRD) is proposing mechanical control of common reed (*Phragmites australis*) near the Fenway Victory Gardens. Considered invasive nuisance plants, *Phragmites* have spread along the banks of the Muddy River to the periphery of the Victory Gardens, where they block views and present a fire risk creating a public safety concern for park users and gardeners. This Notice of Intent (NOI) proposes mechanical control of these invasives within portions of Bordering Vegetated Wetland (BVW), inland Bank, Land Under Water (LUW), Riverfront Area (RFA) and Bordering Land Subject to Flooding (BLSF) associated with the Muddy River.

1.1 Site History

The Victory Gardens are located in the Back Bay Fens area of the Emerald Necklace. The Victory Gardens were established during the 1940's and are divided into plots which are maintained by members of the public. Invasive vegetation has been a problem in the area for several years. *Phragmites* is dominant along much of this length of the river and throughout the project site, with the exception of an approximately 2,900 square-foot area near Boylston Street which is dominated by Japanese knotweed.

In June 1995, a Superseding Order of Conditions (DEP File No. 6-577) was issued by the Department of Environmental Protection (DEP) which allowed the investigation of techniques to control *Phragmites* in the Back Bay Fens. Control by application of Glyphosate herbicide was proposed as one experimental method in the original Notice of Intent submitted March 1994. This method was not used. The Superseding Order of Conditions did allow for the investigation of *Phragmites* cutting, followed by an application of black plastic liner over the cut plants to inhibit re-growth. As detailed in the Vegetation Monitoring Report prepared by Jason M. Cortell and Associates and issued November 1998, this method was investigated but deemed ineffective for controlling *Phragmites*. Instead, the report recommended that the Phragmites stand be excavated during the environmental dredging proposed as part of the larger Muddy River Flood Control, Water Quality, Habitat Enhancement, and Historic Preservation Project (The Muddy River Project), to remove the stalks, rhizomes, and seed bank associated with the *Phragmites* stands. The Superseding Order of Conditions for this investigation expired in June 1998. The stand of Phragmites spread to the immediate vicinity of the Victory Gardens and public walkways providing access to the gardens. *Phragmites* stands are currently dense and over 20 feet in height. The Japanese knotweed stand, while not as extensive as that of Phragmites, is about 10 feet in height and forms dense growth near the Boylston Street Bridge. Both areas pose public safety hazards for users of the park and gardens. In April of 2010 a dangerous and fast moving fire burned the reeds (see Photographs in



Attachment D). Nearby roadways, including Boylston Street, were closed in order to fight the fire. The City's Emergency Response center is housed in the Boston Fire Department building in the Fens. In December 2005, an Order of Conditions (OOC) (DEP File No. 006-1061) was issued by the Boston Conservation Commission which allowed the mechanical cutting (i.e. mowing) of invasives within 19,500 square feet of BLSF, 10,965 square feet of Riverfront Area, and 22,000 square feet in the 100-Foot Buffer Zone.

1.2 Existing Conditions

Five state jurisdictional wetland resources were delineated in the Victory Gardens area: LUW, inland Bank, BVW, BLSF, and RFA; all of which are associated with the Muddy River. The limits of the on-site resource areas have been reviewed and accepted by the Boston Conservation Commission, and an Order of Resource Area Delineation (ORAD) was issued for these delineations by the Boston Conservation Commission on February 21, 2001 (DEP File No. 6-867). The term of the ORAD was extended on April 21, 2010, and remains valid through February 21, 2013. A copy of the ORAD is included in Appendix C. Therefore, these boundaries are presumed accurate and are presented in the attached figures for this NOI. Note, RFA extends 25 feet from the top of inland Bank as depicted on the attached Figures 5 through 8, and the limit of BLSF varies from elevation 6 feet to elevation 7 feet NGVD in the project area as shown on Figure 3 (the flood elevations correspond to elevation 11.65 feet to 12.65 feet Boston City Base).

Phragmites is prevalent throughout the lower Back Bay Fens, dominating the shoreline and growing into the river channel. It occupies approximately 3.5 acres in the Back Bay Fens. Phragmites supports the physical functions of shoreline/sediment stabilization and sediment/toxicant/nutrient retention. However, the wildlife habitat value of wetlands dominated by common reed depends upon a number of factors. It is generally found to provide less nutritional value and often support a less diverse bird population than marshes dominated by native species.

A more comprehensive discussion of the functions and values of *Phragmites* along the Muddy River is presented in the EIR for the Muddy River Project, EOEA No. 11865.

2.0 Natural History and Wildlife Habitat Function of Phragmites

2.1 Natural History

Common reed is a tall perennial rhizomatous grass with world-wide distribution as it is found on every continent except Antarctica. It produces a large number of seeds per plant and also spreads vegetatively by a vigorous system of rhizomes and stolons. These reproductive strategies cause common reed to be an invasive plant forming dense stands of monospecific communities. Since common reed is invasive, there is some debate over whether it is native to this area. There is some evidence that common reed is indigenous to North America. Common reed was identified in cores



of 3000 year old peat from tidal marshes in Connecticut and common reed remains dating from 600 to 900 A.D. were found during archaeological investigations in southwestern Colorado (see review by Lapin and Randall, 1993). It has been considered a nuisance plant in the U.S. since the 1940's, and because of that there has been some discussion that a non-native strain of common reed may have been introduced from Europe in the early 1900s. The invasive growth form may be associated with this exotic type (Cronk and Fennessy, 2001).

Common reed typically inhabits freshwater and brackish wetlands throughout our area. It occurs in disturbed areas as well as pristine sites forming monospecific and near-monospecific stands by out-competing other plants. Human disturbance of sites may promote its growth. Increases in common reed are also thought to be promoted from increases in soil salinity from road deicing salts, increases in nutrient concentrations (in particular nitrates), alteration of natural hydrologic regimes, and dredging.

Common reed becomes established through dispersal of seeds or pieces of viable stems called rhizomes. Established stands grow mainly from sending up new shoots each spring from existing rhizomes, or from aboveground runners called stolons. The plants flower and set seed generally between July and September. In New England, seeds are dispersed between November and January by wind or via birds that nest in the reeds. Human disturbance may favor common reed seed establishment. During a construction activity in and around wetlands, sixty-nine (69) rhizome buds were removed from the treads of a tracked vehicle working in a common reed dominated community (M.S. Ailstock, *et al.*, 2001).

Wetland functions are self-sustaining properties of a wetland ecosystem and include all the processes necessary for the self maintenance of the wetland ecosystem such as production and nutrient cycling. Wetland values are based on the societal values of these wetland functions. The Army Corps of Engineers recognizes the following thirteen (13) wetland functions and values: Groundwater Recharge/Discharge, Floodflow Alteration, Fish and Shellfish Habitat, Sediment/Toxicant/Pathogen Retention, Nutrient Removal/Retention/ Transformation, Production Export, Sediment/Shoreline Stabilization, Wildlife Habitat, Recreation, Educational/Scientific Value/Uniqueness/Heritage, Visual Quality/Aesthetics, and Threatened or Endangered Species Habitat.

A literature review was conducted to identify the wetland functions and values of common reed dominated wetland communities. The following four functions/values were found to be associated with common reed dominated wetlands:

- Sediment/Toxicant Retention,
- Sediment/Shoreline Stabilization,
- Nutrient Removal/Retention/Transformation, and



■ Wildlife Habitat

The four functions above will not be affected by the proposed project. A brief discussion of: Sediment/Toxicant Retention, Sediment/Shoreline Stabilization, and Nutrient Removal/Retention/Transformation is presented below. A more complete discussion of Wildlife Habitat follows.

Sediment/Toxicant Retention

This function reduces or prevents degradation of water quality (i.e. prevention of pollution). It relates to the effectiveness of the wetland to trap sediments, toxicants, or pathogens.

Studies have found that *Phragmites australis* can be an important soil stabilizer and may have an application as a nutrient sink for treating wastewater prior to release (Ailstock, *et al.*, 2001). *Phragmites australis* is commonly used for sediment trapping in subsurface flow wetlands in Europe (Cronk and Fennessy, 2001); however its invasive characteristics prevent its use in this fashion in North America. The dense stands of persistent stalks also aid in the trapping of sediment carried in water flowing through reed stands.

Sediment/Shoreline Stabilization

This function considers the effectiveness of a wetland to stabilize stream banks and shorelines against erosion.

Phragmites plants develop dense tangles of roots and rhizomes that bind sediment/soils to protect shorelines from wave action and erosion.

Nutrient Removal/Retention/Transformation

This function considers the effectiveness of the wetland as a trap for nutrients in runoff water from surrounding uplands or contiguous wetlands and the ability of the wetland to process these nutrients into other forms or trophic levels. One aspect of this function is to prevent ill effects of nutrients entering aquifers or surface waters such as ponds, lakes, streams, rivers, or estuaries (i.e. prevention of pollution).

Emergent vegetation such as common reed has a large network of roots and rhizomes to store nutrients (nitrogen and phosphorus) in perennial tissues. Emergents take up nutrients from the soil pore water, establishing a gradient between the water column and the soil which improves overall nutrient retention. Common reed has high nutrient uptake capacity primarily due to its large size and high rate of primary productivity. Studies of uptake of metals, which are essential micronutrients for living organisms, found that common reed accumulates iron, lead, zinc, cadmium, and copper in the roots and rhizomes with some indication that the translocation of the metals to the shoots is impeded (Cronk and Fenessy, 2001).



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Table 1. Summary of Wetlands Functions and Values



2.2 Wildlife Habitat Function

Wetland functions and values were evaluated and presented in the EIR for the Muddy River Project (EOEA No. 11865). That evaluation utilized the methodology described in the Army Corps of Engineers New England District booklet entitled The Highway Methodology Workbook Supplement, Wetlands Functions and Values a Descriptive Approach (USACE, 1995). The Corps' method is a systematic presentation of best professional judgment with backup information to support the conclusions. It involves reviewing a number of parameters for each function or value to assess the ability of the wetland to perform that particular function or support that value. It involves reviewing a combination of field data and published data, to complete a questionnaire. Based on the responses to the questionnaire, one summarizes the results for each wetland to assess the suitability of a wetland to perform the identified functions and values. A summary of the functions and values assessment presented in the EIR is presented below in Table 1.

Wetland systems are likely to support most functions or values to a certain degree, but it is important to identify those functions and values that are most important or most strongly supported by a particular system, (i.e. Principal Function/Value). Table 1 shows that a number of functions or values are likely to occur in the Muddy River system (identified as "occurrence"), however, only a small subset are identified as a Principal Function/Value. The principal functions/values for the major river segments are identified in Table 1.

In the Back Bay Fens Victory Garden, the following functions were identified as principal functions: Flood Flow Alteration, Sediment & Toxicant Retention, and Nutrient Removal. The results of the U.S. Army Corps of Engineers (the Corps) functions and values assessment methodology, did not identify Wildlife Habitat as a principal function in this segment of the Muddy River. The Corps' methodology is comprehensive and the assessment of wildlife function is based on over 20 features of the subject area.

Wildlife Habitat – This function considers the effectiveness of the wetland to provide habitat for various types and populations of animals typically associated with wetlands and the wetland edge. Both resident and migrating species are considered.

The literature is inconclusive on the wildlife habitat functions provided by *Phragmites* marshes, in general. Therefore, the ability of an individual *Phragmites* marsh to support this function should be evaluated on a case-by-case basis. The wildlife habitat of near mono-specific stands of common reed is commonly considered of little value by North American biologists. The U.S. Fish and Wildlife Service describes common reed as being high quality livestock forage during early growth stages but after maturity it becomes tough and unpalatable and is not an important wildlife food. Occasionally, however, seeds are eaten by waterfowl, and rhizomes and stems by muskrats. The USDA has documented that the common reed has low protein value (U.S.D.A., Forest Service, 2002).



A study of common reed on the distribution of birds in Connecticut tidal marshes concluded that homogenous stands of common reed do not provide suitable habitat for many species of wetland birds (Benoit & Askins, 1999). Marsh Wren (Cistothorus palustris), Red-winged Blackbird (Agelaius phoeniceus), Swamp Sparrow (Melospiza georgiana), and Tree (Tachycineta bicolor) and Barn Swallows (Hirundo rustica) dominated the bird community in Phragmites marshes. This study showed that stable, discrete patches or narrow bands of Phragmites around salt marshes may in fact increase the amount of "edge" habitat preferred for nesting by many marsh birds. These observations highlight the difference between monospecific Phragmites wetlands compared to native plant communities with inclusions of Phragmites stands or the presence of a narrow border of common reed.

Other studies have also shown that unbroken, monotypic stands of tall, emergent vegetation generally have lower quality breeding habitat than diverse vegetation stands with more "edge" habitat and openings. A study of a Danish marsh by Moller (in Lapin and Randall, 1993) showed that areas overgrown by *Phragmites* and tall *Scirpus* spp. had greatly reduced numbers of ducks and waders and entirely lacked gulls and terns.

Common reed is usually the dominant or co-dominant plant, sometimes existing with cattails (*Typha lattifolia*), bulrush (*Scirpus*), or salt marsh grass (*Spartina alterniflora*). It displaces other plants because it grows and spreads rapidly, shades other plants and accumulates a large amount of leaf litter that covers and shades the substrate. This domination results in notable differences in the physical environment. *Phragmites* has such a high evapotranspiration rate, that it can lower the local water table. Increased separation between the marsh surface and the ground water elevation can also result from the increased rate of accumulated leaf litter (peat) in Phragmites marshes, because *Phragmites* plants produce a significant mass of above ground growth its production rate exceeds decomposition rate in saturated environments. As peat dries out and the oxygen levels increase, however, enhanced decomposition of the peat occurs because bacterial populations can grow in the oxygenated environment and increase decomposition of the litter causing a physical depletion of the peat resulting in lower marsh elevations. Because *Phragmites* can dry out the substrate, it can damage habitat for organisms such as aquatic benthic invertebrates and crabs (Cronk and Fenessy, 2001)

A study conducted in 1999 on the population status and the habitat and area requirements of Golden-winged and Blue-winged Warblers by the Lab of Ornithology and Ithaca College found that many wetland sites that had been invaded by *Phragmites* had few nesting birds of any species and appeared to have no nesting Golden-winged Warblers. This study suggests that wetlands with natural vegetation are very important for survival of this particular species and that invasion by *Phragmites* may be very detrimental (Confer and Barker, 2000). Adverse impacts to benthic organisms can result from the increased sediment trapping around the base of the *Phragmites*, a reduction of species that are dependent upon water flow was reported by McIninch, Garbisch, and Salvaggio (1996).



Phragmites can be considered a wetland management problem due to its ability to rapidly colonize and dominate disturbed soils. In this capacity it is capable of invading adjacent areas and crowding out other wetland plant species, reducing the overall plant diversity of the affected system (Ailstock, et al., 2001). Its domination may supplant other species considered to be more important as food and cover for wildlife.

In summary, the wildlife habitat value of common reed dominated wetlands is dependent upon a number of factors. It is generally found to provide less nutritional value than native marsh plants and often supports a less diverse bird population than marshes dominated by native species.

The Back Bay Fens/Victory Gardens

The expansive stands of common reed present in the Back Bay Fens and the associated upland parkland occupy approximately 3.5 acres, and are utilized by the birds and small mammals present in the Back Bay Fens. The river and park are located in an urban setting surrounded by dense urban and residential land uses. Based on the literature review presented previously and site inspections, common reed provide less than optimal habitat value and poor nutritional value for wildlife.

In conclusion, *Phragmites* is associated with four functions and values: sediment/toxicant retention, sediment shoreline stabilization, nutrient removal, and wildlife habitat. The cutting proposed by this NOI will not adversely affect the *Phragmites* capacity to provide the first three functions. The fourth function is wildlife habitat. The assessment of wetland functions and values completed for and presented in the Muddy River Project EIR, did not identify Wildlife Habitat as a principal function of the *Phragmites* dominated wetlands in the Back Bay Fens and Victory Garden area. Therefore, it is presumed that the *Phragmites* stands present within BVW, LUW, BLSF, inland Bank, and RFA in the project area are not significant to the protection of wildlife habitat.

3.0 Invasive Vegetation Control Plan

The BPRD is proposing the following Interim II Invasive Vegetation Control Plan. Areas of invasive vegetation, shown on Figures 5 through 8, will be mowed to ground level 3 to 4 times during the growing season or when the vegetation reaches a height of 4 feet, whichever occurs first. The cut materials will be mulched and retained in place. One cut will be scheduled when most of the *Phragmites* plants will have produced seeds but before these seeds have matured. Because the plants will have produced seeds, re-growth may be less aggressive, and any immature seeds left on the ground will not germinate. The final cutting will be performed in October to provide control over the winter. *Phragmites* will be mowed to approximately 6-inches above the ground surface to prevent scalping of the ground and to maintain soil stability. Any trees within the cutting area will be protected and left unaltered. The interim control plan will be an ongoing maintenance plan that will be implemented until such time as the invasive vegetation is removed permanently as part of the planned Muddy River Project.



4.0 Alternatives Analysis

Four alternatives were considered as part of this project:

- No Action Alternative
- Cutting with herbicide
- Cutting with black plastic
- Cutting only

No Action Alternative

The No Action Alternative would consist of leaving the invasive vegetation in place. Although there is an active Interim Invasive Vegetation Control Plan in place to currently control *Phragmites* growth in the 25-foot RFA, BLSF and 100-foot Buffer Zone (per an existing OOC, DEP File No. 006-1061) including the Victory Gardens area, the fire risk is substantial as demonstrated by the April fire and many gardeners continue to express to BPRD that they do not feel safe while tending their garden plots. In addition to being a steward of the natural resources contained within its parks, BPRD also has an obligation to protect the safety of the general public that uses the park. For these reasons, the No Action Alternative was rejected.

Cutting with Herbicide

This alternative would consist of cutting the vegetation, followed by application of glyphosate to the cut stems to discourage re-growth. This alternative was proposed as one experimental method in the original Interim Invasive Vegetation Control Plan Notice of Intent submitted March 1994 (DEP File No. 6-577), but BPRD is interested in limiting the use of herbicides where possible. Mechanical management (cutting) should be tried before other methods are considered.

Cutting with Black Plastic

This alternative would consist of cutting the invasive vegetation to ground level, then covering the cut stalks with black plastic to discourage re-growth. This strategy was allowed on a trial basis via the Superseding Order of Conditions issued in June 1995 (DEP File No. 6-577). A Vegetation Monitoring Report issued in November 1998 by Jason M. Cortell and Associates stated that "mechanical cutting and the subsequent application of black plastic did little to control" *Pliragmites* growth near the Muddy River. To be effective, the plastic needed to remain on the ground surface for 70 to 120 days, and had to be reapplied to control *Pliragmites* growth. The plastic did not kill the *Pliragmites* rhizomes, and re-growth began as soon as the plastic was removed. In some cases the *pliragmites* grew beneath the plastic, lifting it from the ground. Given the added expense of procuring, applying, and maintaining plastic ground covering; and the fact that this is an interim, not permanent, control program, this alternative was rejected from further consideration.



Cutting Only

This is the preferred alternative. The Cutting Only alternative will consist of cutting the *Phragmites* 3 to 4 times during the growing season, or when the vegetation reaches a height of 4 feet, whichever occurs first. *Phragmites* will be cut to approximately 6-inches above ground level consistent with the previously issued OOC (DEP File No. 006-1061). Cutting will occur within the defined area as depicted on Figures 5 through 8 (attached). This alternative will achieve interim control of invasive vegetation with minimum cost and effort.

5.0 Work Proposed Within Wetland Resource Areas

The proposed dredging of the Muddy River and final removal of the invasive vegetation along the river are part of a larger restoration project currently in design. Currently, areas located within portions of the 100-Foot Buffer Zone, BLSF and RFA are being mowed in accordance to the OOC (DEP File No. 006-1061). The invasive vegetation control plan proposed herein includes mowing tall and dense *Phragmites* stands near the Victory Gardens, located within BVW, LUW, inland Bank, RFA and BLSF, see photographs in Attachment D. The dense vegetation growth in these resource areas continues to threaten public safety. For this reason, the BPRD is proposing this interim mowing plan to clear and manage *Phragmites* growth within an approximate 86,400 square-foot area between the Muddy River and the Victory Gardens (shown on Figures 5 through 8). The invasive vegetation control plan is limited to cutting *Phragmites* in approximately 18,720 square feet of BLSF, 5,400 square feet in BVW, 63,570 square feet in LUW, 18,720 square feet in RFA and 17,430 square feet (3,725 linear feet) along inland Bank.

5.1 Review of Performance Standards

5.1.1 Bordering Vegetated Wetland Performance Standards

Work in BVW consists of cutting invasive vegetation to ground level. *Phragmites* will be moved to approximately 6-inches above ground surface to prevent scalping of the ground and to maintain soil stability. The provisions 310 CMR 10.55(4) apply:

- (b) Notwithstanding the provisions of 310 CMR 10.55(4)(a), the issuing authority may issue an Order of Conditions permitting work which results in the loss of up to 5000 square feet of Bordering Vegetated Wetland when said area is replaced in accordance with the following general conditions and any additional, specific conditions the issuing authority deems necessary to ensure that the replacement area will function in a manner similar to the area that will be lost:
- 1. The surface of the replacement area to be created ("the replacement area") shall be equal to that of the area that will be lost ("the lost area");

The proposed Interim II Invasive Vegetation Control Plan involves mechanical cutting of approximately 5,400 square feet of *Phragmites* to an approximate height of 6-inches in height to manage invasive species until the final removal of vegetation is achieved with the implementation of the Muddy River Project.



The project is limited to cutting invasive species within BVW. No net loss of BVW will occur as part of the interim control project.

2. The ground water and surface elevation of the replacement area shall be approximately equal to that of the lost area;

No area will be lost as part of the interim control project.

3. The overall horizontal configuration and location of the replacement area with respect to the bank shall be similar to that of the lost area;

Work within bank is limited to mechanical cutting to control invasive species. No area will be lost as part of the interim control project.

4. The replacement area shall have an unrestricted hydraulic connection to the same water body or waterway associated with the lost area;

No area will be lost as part of the interim control project.

5. The replacement area shall be located within the same general area of the water body or reach of the waterway as the lost area;

No area will be lost as part of the interim control project.

6. At least 75% of the surface of the replacement area shall be reestablished with indigenous wetland plant species within two growing seasons, and prior to said vegetative reestablishment any exposed soil in the replacement area shall be temporarily stabilized to prevent erosion in accordance with standard U.S. Soil Conservation Service methods; and

No area will be lost as part of the interim control project.

7. The replacement area shall be provided in a manner which is consistent with all other General Performance Standards for each resource area in Part III of 310 CMR 10.00. In the exercise of this discretion, the issuing authority shall consider the magnitude of the alteration and the significance of the project site to the interests identified in M.G.L.c.131, § 40, the extent to which adverse impacts can be avoided, the extent to which adverse impacts are minimized, and the extent to which mitigation measures, including replication or restoration, are provided to contribute to the protection of the interests identified in M.G.L.c.131, § 40.

The proposed Interim II Invasive Vegetation Control Plan involves mechanical cutting of approximately 5,400 square feet of *Phragmites* to an approximate height of 6-inches four times a year to control invasive species until the final removal of invasive vegetation and replacement planting is achieved with the implementation of the Muddy River Project.



5.1.2 Performance Standards for Bordering Land Subject to Flooding

Work in BLSF consists of cutting invasive vegetation to ground level. No ground disturbance is proposed. The provisions 310 CMR 10.57(4) apply:

1. Compensatory storage shall be provided for all flood storage volume that will be lost as the result of a proposed project within Bordering Land Subject to Flooding, when in the judgment of the issuing authority said loss will cause an increase or will contribute incrementally to an increase in the horizontal extent and level of flood waters during peak flows.

No flood storage will be lost as a result of this project;

2. Work within Bordering Land Subject to Flooding, including that work required to provide the above specified compensatory storage, shall not restrict flows so as to cause an increase in flood stage or velocity.

Work within BLSF consists of cutting *Phragmites* stands to ground level. Invasive vegetation will be mowed to approximately 6-inches above ground surface to prevent scalping of the ground and to maintain soil stability. The project as proposed will not restrict flows in any way.

3. Work in those portions of Bordering Land Subject to Flooding found to be significant to the protection of wildlife habitat shall not impair its capacity to provide important wildlife habitat functions. Except for work which would adversely affect vernal pool habitat, a project or projects on a single lot, for which Notice(s) of Intent is filed on or after November 1, 1987, that (cumulatively) alter(s) up to 10% or 5,000 square feet (whichever is less) of land in this resource area found to be significant to the protection of wildlife habitat, shall not be deemed to impair its capacity to provide important wildlife habitat functions. Additional alterations beyond the above threshold, or altering vernal pool habitat, may be permitted if they will have no adverse effects on wildlife habitat, as determined by procedures contained in 310 CMR 10.60.

As described above in Section 2.2, the wetland function and values assessment of the *Phragmites* dominated wetland resources associated with the Muddy River in the project area were not shown to be significant to the protection of wildlife habitat. Therefore, *Phragmites* mowing in the lower floodplain, is not considered to have an adverse effect on wildlife habitat.

5.1.3 Performance Standards for Inland Bank

Work in inland Bank consists of cutting invasive vegetation to ground surface level. No ground disturbance is proposed. The provisions 310 CMR 10.54(4) apply:

(a) Where the presumption set forth in 310 CMR 10.54(3) is not overcome, any proposed work on a Bank shall not impair the following:



The physical stability of the Bank;

Work within inland Bank consists of cutting *Phragmites* to ground level. Vegetation will be mowed to an approximate height of 6-inches to prevent scalping of the ground and to maintain soil stability along the bank.

The water carrying capacity of the existing channel within the Bank;

The proposed project will not decrease the carrying capacity of the Muddy River.

Ground water and surface water quality;

Work in inland Bank consists of cutting *Phragmites* to ground level, leaving approximately 6-inches of vegetation and root systems in place. No ground disturbance is proposed.

 The capacity of the Bank to provide breeding habitat, escape cover and food for fisheries;

As discussed in Section 2.2 the *Phragmites* stands in the project area stands are presumed to not be significant to the protection of wildlife habitat.

5. The capacity of the Bank to provide important wildlife habitat functions. A project or projects on a single lot, for which Notice(s) of Intent is filed on or after November 1, 1987, that (cumulatively) alter(s) up to 10% or 50 feet (whichever is less) of the length of the bank found to be significant to the protection of wildlife habitat, shall not be deemed to impair its capacity to provide important wildlife habitat functions. Additional alterations beyond the above threshold may be permitted if they will have no adverse effects on wildlife habitat, as determined by procedures contained in 310 CMR 10.60.

As discussed in Section 2.2, the *Phragmites* stands are presumed to not be significant to the protection of wildlife habitat.

5.1.4 Performance Standards for Land Under Water

Work in LUW consists of cutting invasive vegetation to ground level. No ground disturbance is proposed. The provisions 310 CMR 10.56(4) apply:

- (a) Where the presumption set forth in 310 CMR 10.56(3) is not overcome, any proposed work within Land Under Water Bodies and Waterways shall not impair the following:
 - 1. The water carrying capacity within the defined channel, which is provided by said land in conjunction with the banks;

The proposed project will not decrease the carrying capacity of the Muddy River



2. Ground and surface water quality;

Work in LUW consists of cutting invasive vegetation to ground level, leaving a minimum of 6-inches of vegetation and root systems in place. No ground disturbance is proposed.

3. The capacity of said land to provide breeding habitat, escape cover and food for fisheries;

As discussed in Section 2.2 the *Phragmites* stands are presumed to not be significant to the protection of wildlife habitat. The capacity of LUW to provide breeding habitat, escape cover and food for fisheries is not expected to be impaired due to implementation of the proposed invasive vegetation management plan.

4. The capacity of said land to provide important wildlife habitat functions. A project or projects on a single lot, for which Notice(s) of intent is filed on or after November 1, 1987, that (cumulatively) alter(s) up to 10% or 5,000 square feet (whichever is less) of land in this resource area found to be significant to the protection of wildlife habitat, shall not be deemed to impair its capacity to provide important wildlife habitat functions. Additional alterations beyond the above threshold may be permitted if they will have no adverse effects on wildlife habitat, as determined by procedures established under 310 CMR 10.60.

As discussed in Section 2.2, the *Phragmites* stands are presumed to not be significant to the protection of wildlife habitat.

(b) Notwithstanding the provisions of 310 CMR 10.56(4)(a), the issuing authority may issue an Order in accordance with M.G.L. c. 131, § 40 to maintain or improve boat channels within Land Under Water Bodies and Waterways when said work is designed and carried out using the best practical measures so as to minimize adverse effects such as the suspension or transport of pollutants, increases in turbidity, the smothering of bottom organisms, the accumulation of pollutants by organisms or the destruction of fisheries habitat or nutrient source areas.

Not applicable.

(c) Notwithstanding the provisions of 310 CMR 10.56(4)(a) or (b), no project may be permitted which will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species, as identified by procedures established under 310 CMR 10.59.

The project is not located in Priority Habitat of Rare Species or Estimated Habitat of Rare Wildlife as indicated in the 2008 Massachusetts Natural Heritage Atlas, see Figure 2.



5.1.5 Performance Standards for Riverfront Area

Work in RFA consists of cutting invasive vegetation to ground level. No ground disturbance is proposed. The provisions 310 CMR 10.58(4) a-d apply:

(a) Protection of Other Resource Areas

The work shall meet the performance standards for all other resource areas within the riverfront area, as identified in 310 CMR 10.30 (coastal bank), 10.32 (salt marsh), 10.55 (Bordering Vegetated Wetland), and 10.57 (Land Subject to Flooding). When work in the riverfront area is also within the buffer zone to another resource area, the performance standards for the riverfront area shall contribute to the protection of the interests of M.G.L. c. 131, § 40 in lieu of any additional requirements that might otherwise be imposed on work in the buffer zone within the riverfront area.

Cutting of *Phragmites* is proposed within BVW, inland Bank, LUW and BLSF associated with the Muddy River. *Phragmites* management as proposed herein will not adversely affect these resources areas. Cutting of the invasive vegetation along the river will improve visibility but more importantly, the management plan is necessary from a public safety standpoint.

(b) Protection of Rare Species

No project may be permitted within the riverfront area which will have any adverse effect on specified habitat sites of rare wetland or upland, vertebrate or invertebrate species, as identified by the procedures established under 310 CMR 10.59 or 10.37, or which will have any adverse effect on vernal pool habitat certified prior to the filing of the Notice of Intent.

No Estimated Habitat of Rare Species is located on or near the project site. Also, no potential or certified vernal pools have been observed within the designated cutting area.

(c) Practicable and Substantially Equivalent Economic Alternatives

There must be no practicable and substantially equivalent economic alternative to the proposed project with less adverse effects on the interests identified in M.G.L. c. 131 § 40.

An Alternatives Analysis is presented in Section 4.1.

(d) No Significant Adverse Impact

The work, including proposed mitigation measures, must have no significant adverse impact on the riverfront area to protect the interests identified in M.G.L. c. 131, § 40.

2. Within 25 foot riverfront areas, any proposed work shall cause no significant adverse impact by:



a. Limiting alteration to the maximum extent feasible, and at a minimum, preserving or establishing a corridor of undisturbed vegetation of a maximum feasible width. Replication and compensatory storage required to meet other resource area performance standards are allowed within this area; structural stormwater management measures shall be allowed only when there is no practicable alternative;

The dense stands of *Phragmites* within the RFA does not provide significant wildlife habitat, as described above, and blocks views of the river. Most importantly, the dense vegetation poses a fire risk and public safety concern to gardeners and the general public. The interim control plan presented herein will improve public safety while requiring no loss of resource areas within RFA.

b. Providing stormwater management according to standards established by the Department;

No ground disturbance or new impervious surface is planned as part of this project; therefore, stormwater management is not deemed necessary.

c. Preserving the capacity of the riverfront area to provide important wildlife habitat functions. Work shall not result in an impairment of the capacity to provide vernal pool habitat when identified by evidence from a competent source but not yet certified;

Phragmites within the Back Bay Fens/Victory Garden area do not provide significant wildlife habitat function as documented above and in the EIR for the Muddy River Project. No potential vernal pools have been identified in the proposed cutting area.

d. Proposed work shall not impair groundwater or surface water quality by incorporating erosion and sedimentation controls and other measures to attenuate nonpoint source pollution.

No ground disturbance or new impervious area is proposed as part of this project, therefore erosion and sedimentation controls are not deemed necessary.

5.1.6 Interests of Wetland Protection Act

The Interests of the Wetlands Protection Act (interests of the Act) include: protection of public and private water supply, protection of ground water supply, flood control, storm damage prevention, prevention of pollution, protection of land containing shellfish, protection of fisheries, and protection of wildlife habitat. Wetland functions, as described by the Army Corps of Engineers, correlate to the interests of the Act. As described above in Section 2 and presented in Table 1, the wetlands functions of Flood



Flow Alteration, Sediment and Toxicant Retention and Nutrient Removal are identified as "principal functions" supported by the wetlands. The functions of Sediment and Toxicant Retention, and Nutrient Removal are most closely related to the pollution prevention interest of the Act, while Flood Flow Alteration is related to Storm Damage Prevention and Flood Control.

The review of the performance standards for BVW, BLSF, Bank, LUW, and RFA, presented above, indicates that the project will not adversely affect the applicable interests of the Act.

6.0 Conclusion

The proposed work is necessary to protect the safety of people using the Victory Gardens and Back Bay Fens. Additionally, the control plan will provide interim control for invasive plants until planned dredging and restoration occurs as part of the Muddy River Project. Implementation of the plan proposed as part of this Notice of Intent will not result in the loss of any wetland resource areas.

References

- Ailstock, S. M., M.C. Norman, and P.J. Bushmann. 2001. Common Reed Phragmites australis: Control and Effects Upon Biodiversity in Freshwater Nontidal Wetlands. Anne Arundel Community College, Arnold, MD.
- Benoit, L. W. and R. A. Askins. 1999. Impact of the Spread of *Phragmites* on the Distribution of Birds in Connecticut Tidal Marshes. Wetlands 19:194-208.
- Confer, J. and S. Barker. 2000. *Golden-winged Warblers*. Birdscope, Volume 14, Number 2: 7-8.
- Cronk, J. K. and M. S. Fennessy. 2001. Wetland Plants Biology and Ecology. Lewis Publishers Boca Raton, FL.
- Lapin, B. and J. Randall. 1993. *Phragmites australis (Phragmites communis)*. Element Stewardship Abstract, The Nature Conservancy, Arlington, VA, USA.
- McIninch, S.M., E.W. Garbisch, and G.J. Salvaggio. 1996. Control of *Phragmites australis* by Consecutive Cuttings and Flooding. Wet. J. 8: 18-20.
- Ostendorp, W. 1989. 'Die-back' of Reeds in Europe a Critical Review of the Literature. Aquatic Botany 35:5-26
- USACE. 1995. <u>The Highway Methodology Workbook Supplement, Wetlands</u> <u>Functions and Values a Descriptive Approach</u>. NEDEP-360-1-30a. pp.32.
- USDA Forest Service. 2002. www.fs.fed.us/database/feis/plants/graminoid/phraus/value_and_use.html



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Attachment B Abutter Notification Information

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NOTIFICATION TO ABUTTERS UNDER THE MASSACHUSETTS WETLANDS PROTECTION ACT

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, you are hereby notified of the following:

- A. The name of the applicant is the City of Boston Parks and Recreation Department.
- B. The applicant has filed a **Notice of Intent** with the **Boston Conservation Commission** seeking permission to remove, fill, dredge or alter an Area Subject to Protection Under the Wetlands Protection Act (MGL chp. 131, Sec. 40).*
- C. The address of the lot(s) where the activity is proposed is **Back Bay Fens between the**Victory Gardens and the Muddy River
- D. The Notice of Intent may be examined at the Boston Conservation Commission at the Boston City Hall, One City Hall Plaza, 8th Floor, Boston, Massachusetts 02201 between the hours of 8:00 AM and 4:00 PM Monday through Friday.
- E. Information about the Notice of Intent may be obtained from Camp Dresser and McKee Inc., One Cambridge Place, Cambridge, MA 02139, Attn: Dwight Dunk or by calling (617) 452-6601 between 9 AM and 4 PM Monday through Friday.
- F. We understand that the hearing will be held on Wednesday, August 18 at 6:00 PM in Boston City Hall, Rm. 801.
- G. Notice of Public Hearing, including its date, time and place will also be published at least five (5) days in advance in **The Boston Globe and The Boston Herald**. You may also contact your local Conservation Commission or the nearest Department of Environmental Protection Regional Office for more information about this application or the Wetlands Protection Act. To contact the **Boston Conservation Commission**, call **617-635-3850**. To contact the Department of Environmental Protection, call the **Northeast Regional Office at (617) 292-5500**.

^{*} This project involves work in the Bordering Land Subject to Flooding, Bordering Vegetated Wetland, Inland Bank, and Land Under Water. The project is limited to mowing invasive vegetation 3-4 times during the growing season or when the vegetation reaches 4 feet in height, whichever comes first, in the parkland to improve visibility and promote public safety.

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0504181000	BOYLSTON 1163-1191	1175 BOYLSTON ST	BOYLSTON 1163-1191 ASSOC LLC
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		***************************************	BROOKLINE, MA 02445
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0504214000	WAIT STREET ASSOCS	1 PETERSBOROUGH ST	WAIT STREET ASSOCS LPS
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0401474000	PARKSIDE TOWER LLC	91 WESTLAND AV	PARKSIDE TOWER LLC
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0401721000	PIZZI SALVATORE TRSTS	60 FENWAY ST	PIZZI SALVATORE TRSTS
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Attachment C Order of Resource Area Delineation

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CITY OF BOSTON THE ENVIRONMENT DEPARTMENT

Boston City Hall, Room 805 • Boston, MA 02201 • 617/635-3850 • FAX: 617/635-3435

April 21, 2010

Mr. Dwight R. Dunk, PWS Camp Dresser & McKee Inc. One Cambridge Place 50 Hampshire St. Cambridge, MA 02139

RE:

DEP File No. 006-0867, Extension Permit, Boston Parks and Recreation Department, Muddy

River Restoration Project

Dear Mr. Dunk:

The Boston Conservation Commission voted at its April 14, 2010 public hearing to extend the above referenced Order of Conditions until February 21, 2013. I have enclosed the Extension Permit, which you must arrange to have recorded in accordance with Section C of the permit.

If there are any future changes to the project plans or designs that are on file with the Commission, please contact me at (617) 635-4417.

For the Commission.

Chris H. Busch, Executive Secretary-Boston Conservation Commission

Enclosure

cc: Margaret Dyson, BPRD

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Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

DEP File Number:

WPA Form 7 – Extension Permit for Orders of Conditions 006-0867 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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This Extension Permit must be signed by a majority of the Conservation Commission and a copy sent to the applicant and the appropriate DEP Regional Office (http://www.mass.gov/dep/about/region/findyour.htm)

Signatures: Charles Buth	April 14, 2010 Date Date Voltai: 4/14/10
John Divis	Jalla



To:

Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

DEP File Number:

WPA Form 7 - Extension Permit for Orders of Conditions October Provided by

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by DEP

C. Recording Confirmation

The applicant shall record this document in accordance with General Condition 8 of the Order of Conditions (see below), complete the form attached to this Extension Permit, have it stamped by the Registry of Deeds, and return it to the Conservation Commission.

Note: General Condition 8 of the Order of Conditions requires the applicant, prior to commencement of work, to record the final Order (or in this case, the Extension Permit for the Order of Conditions) in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, it shall be noted in the Registry's Granter Index under the name of the owner of the land upon which the proposed work is to be done. In the case of registered land, it shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is done.

Detach this page and submit it to the Conservation Commission prior to the expiration of the Order of Conditions subject to this Extension Permit.

Conservation Commission		·
Please be advised that the Extension Permit	to the Order of Conditions for the pro	ject at:
Project Location	DEP File Number	
as been recorded at the Registry of Deeds	of:	
County		
or:		
Property Owner		i o lo ditto o
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Attachment D Site Photographs

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Project Area Photographs on June 18, 2010



Photograph 1: Facing north in general vicinity of Wetland Flag 14-101 on Figure 5.



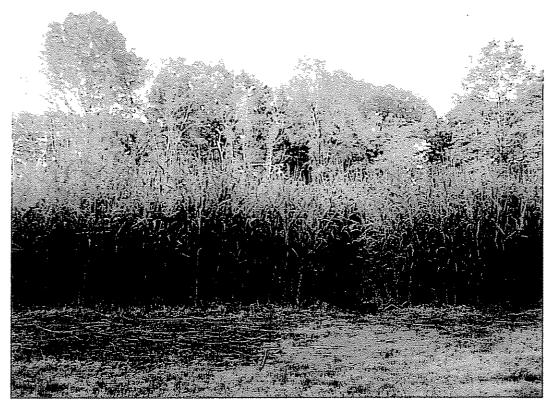
Photograph 2: Facing east in general vicinity of Wetland Flag 14-110 on Figure 6.



Photograph 3: Facing east in general vicinity of Wetland Flag 14-120 on Figure 6.



Photograph 4: Facing south in general vicinity of Wetland Flags 14-122 on Figure 7.



Photograph 5: Facing south in general vicinity of Wetland Flag 14-124 on Figure 7.



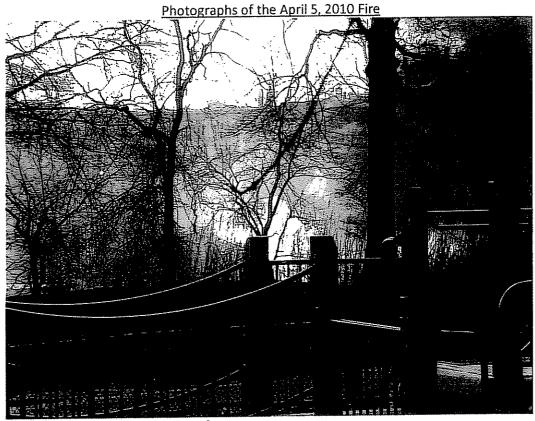
Photograph 6: Facing south in general vicinity of Wetland Flag 14-125 on Figure 7. Note the *Phragmites* encroaching the public walkway and location of the garden plot on the right side of the photograph.



Photograph 7: Facing south in general vicinity of Wetland Flag 14-128 Figure 7, taken from adjacent public walkway.



Photograph 8: Facing south in general vicinity of Wetland Flag 14-129 on Figure 8, taken from adjacent public walkway.



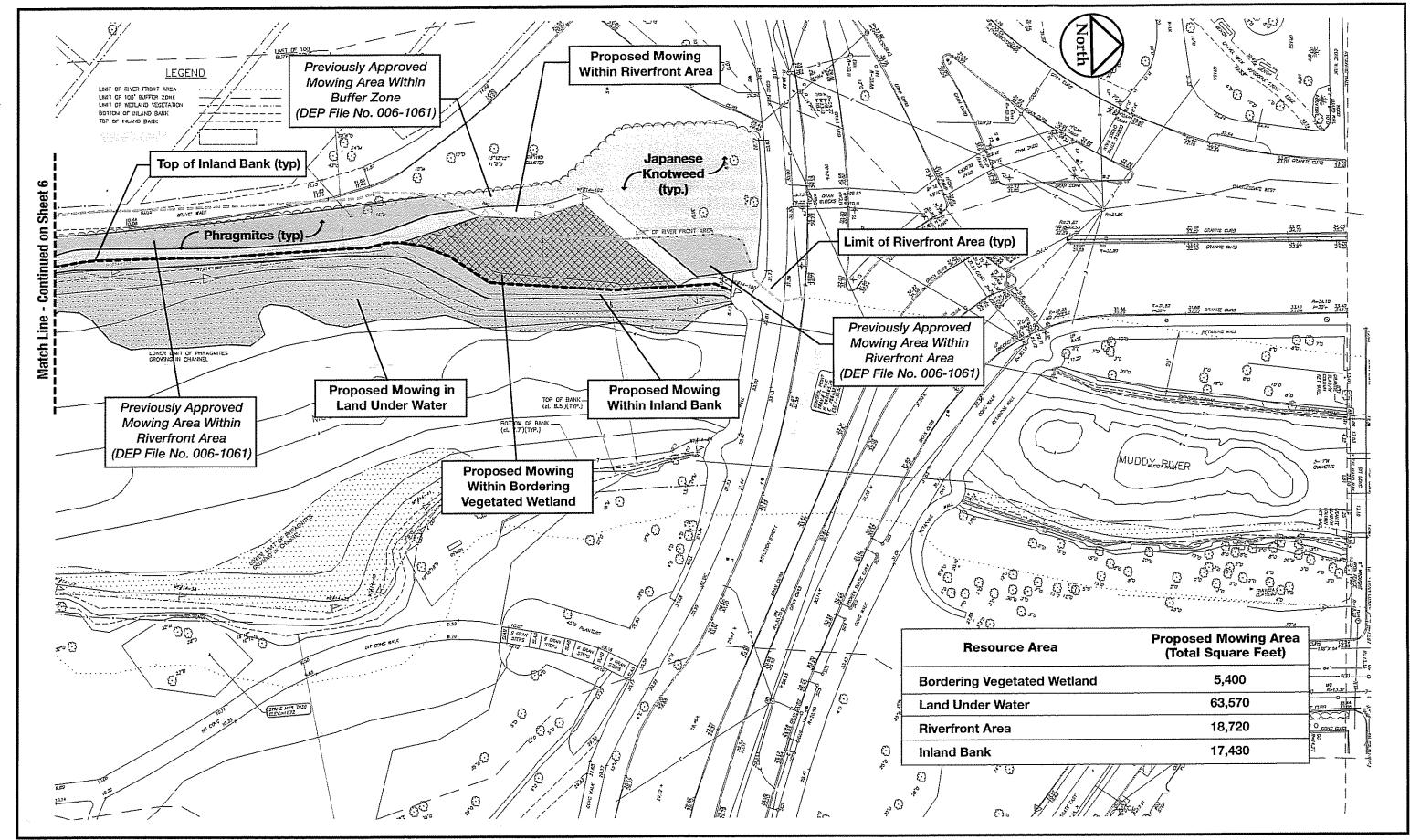
Photograph 9: Photograph taken from



Photograph 10: Photograph taken from

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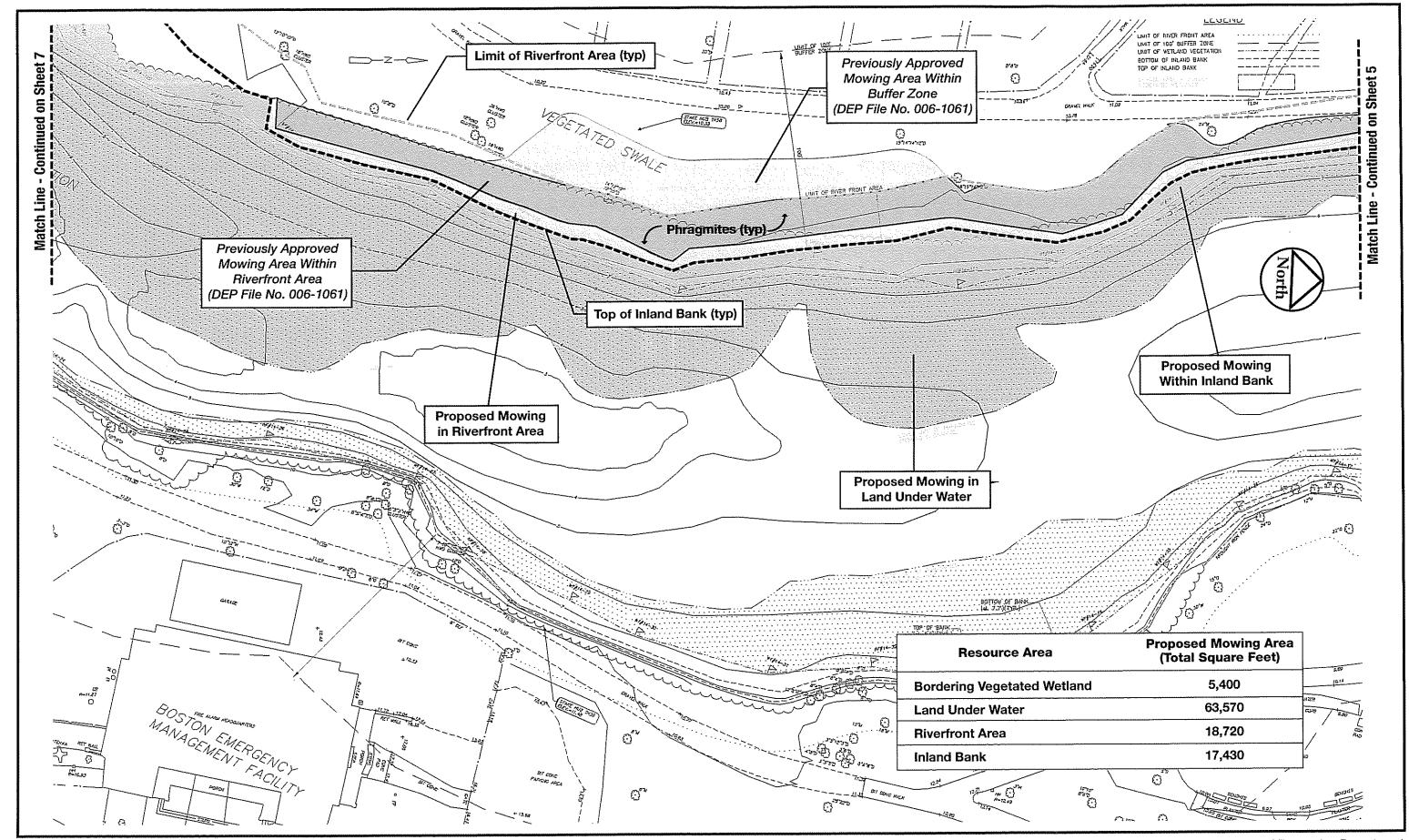


Figure 6
Areas of Mowing

