

Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

A. General Information

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

DEP	File	Number:	
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Provided by DEP Wayland 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

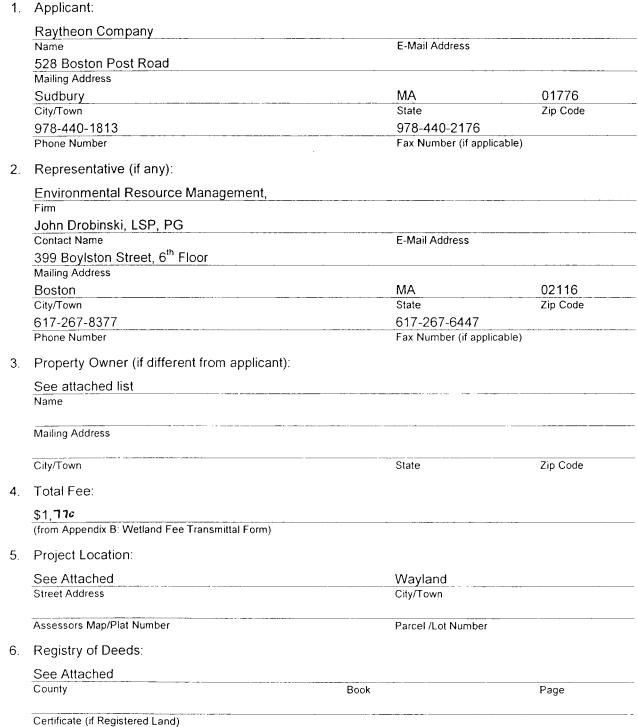
Conservation

Commission

or ordinance.

regarding any municipal bylaw

your local





Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

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DEP	File	Number:	

Provided by DEP Wayland Town

nt.)	
r	nt.)

7. Summary of Project Impacts:

a. Is any work being proposed in the Buffer Zone?

Yes If yes, how many square feet?

Approximately	27,600 sq.	ft.	of temporary impact	
Square Feet				

🗌 No

b. List the impacts of proposed activities on each wetland resource areas (temporary and permanent impacts, prior to restoration and mitigation):

Resource Area	Size of Impact (e.g., sq. ft.)
Within Wetland: Drilling monitoring wells; Access to and	8,800 sq. ft. temporary impact
work area around wells using mats as temporary access	
roads and staging area.	
Well standpipe	3 sq. ft permanent impact
Within Wetland: Access to GW profiling locations.	2,800 sq. ft.temporary impact
Bordering vegated wetlands (buffer zone): Conduct vertical profiling; Access to and work area around profiling	25,200 sq. ft. temporary impact
Bordering vegated wetlands (buffer zone): Access to monitoring well locations.	2,400 sq. ft. temporary impact

B. Project Description

1. General Project Description:

Please review supporting application materials. The project consists of the conducting vertical profiling and advancing soil borings and installing monitoring wells.

2. Plan and/or Map References:

Please see supporting application materials for Exhibits and Appendices	September
Title	2003

Date



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0	Activities	Cub	inct to	Dogu	lation
U.	ACTIVITIES	้อนม		nequ	iauvii
			,	<u> </u>	

1. a. Check the applicable resource areas if work is to be conducted in an associated Buffer Zone:

Inland Resource Areas	Coastal Resource Areas	
Inland Bank	Coastal Beach	Barrier Beach
Bordering Vegetated Wetland (BVW)	Rocky Intertidal Shore	Coastal Dune
	Salt Marsh	Coastal Bank

b. Complete for all pkroposed activities located, in whole or in part, in Wetland Resource Area(s).

Inland Resource Areas:

Bordering Vegetated Wetlands:	Bordering Land Subject to Flooding:
Approximately 39,200 sq. ft. of temporary impact	
Square Feet altered	Volume of Flood Storage Lost (cubic feet)
Square Feet replaced	Volume of Flood Storage Compensation (cubic feet)
Land Under Water Bodies:	Isolated Land Subject to Flooding:
Square Feet altered	Volume of Flood Storage Lost (cubic feet)
Cubic Yards dredged	Volume of Flood Storage Compensation (cubic feet)
Bank:	
Linear Feet altered	
Coastal Resource Areas:	
Coastal Dune:	Land Under Salt Pond:
Square Feet altered	Square Feet altered
Cubic Yards/Volume removed	Cubic Yards dredged
Salt Marsh:	Rocky Intertidal Zone:
Square Feet altered	Square Feet altered
Coastal Bank:	Designated Port Area:
Linear Feet altered	Square Feet altered



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Fish Run:	Land Containing Shellfish:
Linear Feet altered	Square Feet altered
Land Subject to Coastal Storm Flowage:	Beach:
Square Feet altered	Square Feet altered
Land Under Ocean:	
Square Feet altered	
Cubic Yards dredged	
Riverfront Area:	
a. Name of Waterway (if available):	
Sudbury River	

1.

,

- 100 ft. New agricultural projects only
- 200 ft. All other projects
- c. Describe how the Mean Annual High-Water Line was determined:

Bankfull discharge indicators were assessed in the field. A natural berm that represented an obvious change from the aquatic system to a terrestrial system and represents a point bar depositional feature. Furthermore this elevation represents a change in slope from the river's channel going landward into the wetland system and is slightly landward of the change from unconsolidated material to a consolidated soil. This elevation is approximately 110 ft NGVD based on several survey points.

d. Distance of proposed activity closest to the Mean Annual High-Water line:

400 feet landward of the Mean Annual High-Water Line along the Sudbury River. Feet

e. Total area of Riverfront Area on the site of the proposed project:

940,000 square feet (4,700'x200'). Square Feet

f. Proposed alteration of the Riverfront Area:

0 square feet Total Square Feet 0 square feet Square Feet within 100 ft. 0 square feet Square Feet between 100 ft. and 200 ft.

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C. Activities Subject to Regulation (cont.)

- 2. Check all methods used to delineate the Bordering Vegetated Wetland (BVW) boundary:
 - Final Order of Resource Area Delineation issued by Conservation Commission or DEP (attached)
 - DEP BVW Field Data Form (attached)
 - Final Determination of Applicability issued by Conservation Commission (attached)
 - Other Methods for Determining the BVW boundary (attach documentation):
 - 50% or more wetland indicator plants
 - Saturated/inundated conditions exist
 - Groundwater indicators
 - Direct observation
 - Hydric soil indicators
 - Credible evidence of conditions prior to disturbance.
- 3. a. Is any portion of the proposed project located in estimated habitat as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program?
 - Yes If yes, include proof of mailing or hand delivery of NOI to :

Natural Heritage and Endangered Species Program Division of Fisheries and Wildlife Route 135, North Drive Westborough, MA 01581

No No

1998 NHESP Atlas

b. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?

Yes If yes, provide name of ACEC (see Appendix D for ACEC locations):

ACEC

No No

c. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?

- 🗌 Yes
- 🛛 No

	VPA Form 3 – Notice of Intent Iassachusetts Wetlands Protection Act M.G.L. c. 131, §40			Provided by DEP Wayland Town		
D	. Perform	ance Standards				
1.		n of the proposed activity eligible to CMR 10.53?	of the proposed activity eligible to be treated as a limited project subject to 310 CMR CMR 10.53?			
	🛛 Yes	If yes, describe which limited pre-	oject applies to this proje	ect:		
		Assessment of a release of oil a 40.0000).	and/or hazardous materia	al under MCP (310 CMR		
	🗌 No					
2.		y within any Resource Area or Buffe julations, 310 CMR 10.00.	within any Resource Area or Buffer Zone exempt from performance standards of the ilations, 310 CMR 10.00.			
	🗌 Yes	If yes, describe which exemptio	If yes, describe which exemption applies to this project:			
		Exemption				
	🖾 No					
3	a. Is the proj	ect located in the Riverfront Area?				
	🗌 Yes	If yes, indicate the proposed pro	oject purpose:			
		Single Family House	Industrial Deve	lopment		
		Residential Subdivision	Commercial De	evelopment		
		Transportation	Other (describe	2)		
		□b. Was the lot where the activi	ty is proposed created p	rior to August 1, 1996?		
	🗌 Yes					
	🛛 No					
4.	altered, inclu	how the project will meet all perform iding standards requiring consideral d supporting documentation.				
	b. Is this pr	oject exempt from the DEP Stormw	ater Policy?			
	🗌 Yes	If yes, explain why the project i	s exempt::			
	57	If no, stormwater management	measures are required. A	Applicants are encourage		
	🛛 No	complete Appendix C: Štormwa				

Massachusetts Department of Environmental Protection

DEP File Number:



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E. Additional Information

Applicants must include the following with this Notice of Intent (NOI):

- USGS or other map of the area (along with a narrative description, if necessary), containing sufficient information for the Conservation Commission and the Department to locate the site.
- Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland (BVW) replication area or other mitigating measure) relative to the boundaries of each affected resource area.
- Other material identifying and explaining the determination of resource area boundaries shown on plans (e.g., a DEP BVW Field Data Form).
- List the titles and final revision dates for all plans and other materials submitted with this NOI.

F. Fees

The fees for work proposed under each Notice of Intent must be calculated and submitted to the Conservation Commission and the Department (see Instructions and Appendix B. Wetland Fee Transmittal Form).

No fee shall be assessed for projects of the federal government, the Department, or cities and towns of the Commonwealth.

Applicants must submit the following information (in addition to pages 1 and 2 of Appendix B) to confirm fee payment:

1058,1059	September 26,2003	
Check Number	Check date	
Jeremy Picard Payor name on check	Raytheon Company Applicant name (if different from payor)	

G. 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 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.

4125123 Date Signature of Applicant U.S. Fish & Wildlife Service Signature different Owner 4125/03 Date Signature of Representative (If any)



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DEP File Number:

Provided by DEP Wayland Town

G. Signatures and Submittal Requirements (cont.)

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents; two copies of pages 1 and 2 of Appendix B; and the city/town fee payment must be sent to the Conservation Commission by certified mail or hand delivery.

For DEP:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents; two copies of pages 1 and 2 of Appendix B; and a copy of the state fee payment must be sent to the DEP Regional Office (see Appendix A) 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.



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands WPA Appendix B – Wetland Fee Transmittal Form Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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



A.	Applicant Information		
1.	Applicant:		
	Raytheon Company		
	Name		
	528 Boston Post Road		
	Mailing Address		
	Sudbury	MA	01776
	City/Town	State	Zip Code
	978 440-1813		
	Phone Number		
2.	Property Owner (if different):		
	See attached list		
	Name		
	Mailing Address		
	Сity/Town	State	Zip Code
	Phone Number		
3.	Project Location:		
	See Attached List		
	Street Address	City/Town	

B. Fees

Abbreviated Notice of Resource	Area	Delineation	(Form	4A):
Appreviated Notice of Resource	Alea	Denneation	(FOIII	47

To calculate filing fees, refer to the category fee list and examples in Section D of this form.

The fee is	calculated a	s follows	(check	applicable	project	type):
	ouloulated a	0 10110110	(0110011	approcesso	p j	-)F -).

single family house project

X \$1.00=____

(feet of BVW)

all other projects

(feet of BVW)

Total fee (not to exceed \$1,000)

Total fee (not to exceed \$100)

State share of filling fee:

(1/2 of total fee less \$12.50)

City/Town share of filling fee:

(1/2 of total fee plus \$12.50)



B. Fees (cont.)

Abbreviated Notice of Intent (Form 4) or Notice of Intent (Form 3):

The fee should be calculated using the following six-step process and worksheet:

Step 1/Type of Activity: Describe each type of activity (see Section D for a list of activities) that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories in Section D.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individua Activity Fee	Step 4/Subtotal Activity Fee
Monitoring well activities minus roadway	19	55	\$1,045
Oil and/or hazardous material release response actions		\$725	\$725
	Step 5	/Total Project Fee	:\$1,770
	Ste	ep 6/Fee Payments	:
		Total Project Fee	: 1,770 (Total fee from Step 5)
	Stat	e share of filing fee	\$872.50 (1/2 total fee less \$12.50)
	City/Towr	n share of filling fee	: \$897.50 (1/2 total fee plus \$12.50)



A. Property Information

1. The proposed project is:

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

•			
se	New development	🗌 Yes	
- he		🛛 No	
	Redevelopment	🗌 Yes	
1		🛛 No	
	Combination	🗌 Yes	(If yes, distinguish redevelopment components from new development components on plans).
		🛛 No	

Note:

This November 2000 version of the Stormwater Management Form supersedes earlier versions including those contained in DEP's Stormwater Handbooks.

2. Stormwater runoff to be treated for water quality are based on which of the following calculations:

1 inch of runoff x total impervious area of post-development site for discharge to **critical areas** (Outstanding Resource Waters, recharge areas of public water supplies, shellfish growing areas, swimming beaches, cold water fisheries).

0.5 inches of runoff x total impervious area of post-development site for other resource areas.

3. List all plans and documents (e.g. calculations and additional narratives) submitted with this form:

B. Stormwater Management Standards

DEP's Stormwater Management Policy (March 1997) includes nine standards that are listed on the following pages. Check the appropriate boxes for each standard and provide documentation and additional information when applicable.

Standard #1: Untreated stormwater

The project is designed so that new stormwater point discharges do not discharge untreated stormwater into, or cause erosion to, wetlands and waters.



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands WPA Appendix C – Stormwater Management Form Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Stormwater Management Standards (cont.)

Standard #2: Post-development peak discharges rates

Not applicable – project site contains waters subject to tidal action.

Post-development peak discharge does not exceed pre-development rates on the site at the point of discharge or downgradient property boundary for the 2-yr, 10-yr, and 100-yr, 24-hr storm.

- i without stormwater controls
- with stormwater controls designed for the 2-yr, and 10-yr storm, 24-hr storm.
- It he project as designed will not increase off-site flooding impacts from the 100-yr, 24-hr storm.

Standard #3: Recharge to groundwater

Amount of impervious area (sq. ft.) to be infiltrated: 0.0 square feet. All water will be recharged.

Volume to be recharged is based on:

The following Natural Resources Conservation Service hydrologic soils groups (e.g. A, B, C, D, or UA) or any combination of groups:

(% c	f impervious area)	(Hydrologic soil group)	(% of imperviou	s area)	(Hydrologic soil group)
(% c	f impervious area)	(Hydrologic soil group)	(% of imperviou	s area)	(Hydrologic soil group)
🗌 Site	e specific pre-deve	elopment conditions:			
			Recharge rate	Vo	lume
Describ	e how there calcu	lations were determine	ed:		
Beeen					
	· · · · · · · · ·				
1:					
List eac	n BIMP or nonstru	ctural measure used to	o meet Standard #3. (e.	g. dry we	II, infiltration trench).
		· · · · · · · · · · · · · · · · · · ·			
Does th recharg	e annual groundw e from existing sit	ater recharge for the p e conditions?	oost-development site a	pproxima	tes the annual
Does th recharg	e from existing sit	rater recharge for the p e conditions?	oost-development site a	pproxima	ites the annual



B. Stormwater Management Standards (cont.)

Standard #4: 80% TSS Removal

The proposed stormwater management system will remove 80% of the post-development site's average annual Total Suspended Solids (TSS) load.

Identify the BMP's proposed for the project and describe how the 80% TSS removal will be achieved.

If the project is redevelopment, explain how much TSS will be removed and briefly explain why 80% removal cannot be achieved.

Standard #5: Higher potential pollutant loads

See Stormwater Policy Handbook	Does the project site contain land uses with higher potential pollutant loads				
Vol. I, page I-23, for land uses of high pollutant loading	🗌 Yes	If yes, describe land uses:			
	🖂 No				
		s selected to treat stormwater runoff. If infiltration measures are proposed, describe (Note: If the area of higher potential pollutant loading is upgradient of a critical area, allowed.			
Si	tandard #6: Protec	ction of critical areas			
See Stormwater Policy Handbook	Will the project discharge to or affect a critical area?				
Vol. Í, page I -25, for critical areas.	🛛 Yes	If yes, describe areas:			
		Project within Zone II of Baldwin Pond Wellfield, Wayland, MA.			
	🗌 No				



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands WPA Appendix C – Stormwater Management Form

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

	B. Stormw	<pre>vater Management Standards (cont.)</pre>
		BMPs selected for stormwater discharges in these areas and describe how BMPs meet listed on pages I-27 and I-28 of the Stormwater Policy Handbook – Vol. I:
Note: components of redevelopment projects which		Redevelopment projects osed activity a redevelopment project?
plan to develop previously undeveloped areas do not fall under the scope of Standard 7.	🗌 Yes	If yes, the following stormwater management standards have been met:
	🗌 No	
	The followin	ng stormwater standards have not been met for the following reasons:
	The prostormwater	oposed project will reduce the annual pollutant load on the site with new or improved

Standard #8: Erosion/sediment control

Erosion and sediment controls are incorporated into the project design to prevent erosion, control sediments, and stabilize exposed soils during construction or land disturbance.

Standard #9: Operation/maintenance plan

An operation and maintenance plan for the post-development stormwater controls have been developed. The plan includes ownership of the stormwater BMPs, parties responsible for operation and maintenance, schedule for inspection and maintenance, routine and long-term maintenance responsibilities, and provision for appropriate access and maintenance easements extending from a public right-of-way to the stormwater controls.

There are no post-development discharges proposed.		
Plan/Title	Date	

Plan/Title

Date



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands WPA Appendix C – Stormwater Management Form

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

C. Submittal Requirements

DEP recommends that applicants submit this form, as well as, supporting documentation and plans, with the Notice of Intent to provide stormwater management information for Commission review consistent with the wetland regulations (310 CMR 10.05 (6)(b)) and DEP's Stormwater Management Policy (March 1997). If a particular stormwater management standard cannot be met, information should be provided to demonstrate how equivalent water quality and water quantity protection will be provided. DEP encourages engineers to use this form to certify that the project meets the stormwater management standards as well as acceptable engineering standards. For more information, consult the Stormwater Management Policy.

D. Signatures	
	25
Raytheon Company	9/28/03
Edni J. Mul	Date
Signature	
John Drobinski, LSP, PG	9/23/03
Representative (if any)	Date
Sighature	

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NOI -Section A5 & A6 Page 1 of 3

1.		Wayland, MA
Street Address		City/Town
17		5A
Assessors Map/Plat Number		Parcel/Lot Number
Registry of Deeds:		
Middlesex	10839	022
County	Book	Page
Certificate (if Registered Land)		
2.		Wayland MA
Street Address		Wayland, MA City/Town
DITECT AUGIESS		Chy/ 10Wh
18		1
Assessors Map/Plat Number		Parcel/Lot Number
Registry of Deeds:		
Middlesex	12725	597
County	Book	Page
Certificate (if Registered Land)		
3.		Wayland, MA
Street Address		City/Town
18		3
Assessors Map/Plat Number		Parcel/Lot Number
Registry of Deeds:		
Middlesex	12725	597
County	Book	Page

Certificate (if Registered Land)

NOI -Section A5 & A6 Page 2 of 3

4.		Wayland, MA
Street Address		City/Town
18		4
Assessors Map/Plat Number		Parcel/Lot Number
Registry of Deeds:		
Middlesex	12426	127
County	Book	Page
Certificate (if Registered Land)		
5.		Wayland, MA
Street Address		City/Town
Street Address		City/10wit
18		5
Assessors Map/Plat Number		Parcel/Lot Number
Registry of Deeds:		
Middlesex	12405	410
County	Book	Page
Certificate (if Registered Land)		
6.		
		Wayland, MA
Street Address		City/Town
18		6
Assessors Map/Plat Number		Parcel/Lot Number
Registry of Deeds:		
Middlesex	12405	410
County	Book	Page

Certificate (if Registered Land)

NOI - Section A5 & A6 Page 3 of 3

		Wayland, MA
Street Address		City/Town
22		11
Assessors Map/Plat Number		Parcel/Lot Number
Registry of Deeds:		
Middlesex	11072	320
County	Book	Page
Certificate (if Registered Land)		
8.		
430 Boston Post Road		Wayland, MA
Street Address		City/Town
23		52
Assessors Map/Plat Number		Parcel/Lot Number
Registry of Deeds:		
Middlesex	1181/99	210249
County	Book	Page
Certificate (if Registered Land)		
9.		
		Wayland, MA
Street Address		City/Town
23		52A
Assessors Map/Plat Number		Parcel/Lot Number
Registry of Deeds:		
Middlesex	12770	255
County	Book	Page

Molly Reed, MAA Assistant Assessor Carol Neidbala, Administrive Assistant Savitri Ramgoolam, Principal Clerk



Board Members Jeffrey Cohen, Chairman Francis Aurelio Thomas Maglione

BOARD OF ASSESSORS 41 COCHITUATE ROAD WAYLAND MASSACHUSETTS 01778

TEL. 508-358-3788

PLEASE ALLOW 10 BUSINESS DAYS FOR A LIST TO BE CERTIFIED BY ASSESSORS PER MGL CH. 66, S. 10 LISTS ARE CERTIFIED ON A "FIRST COME, FIRST SERVE" BASIS PLEASE PLAN YOUR SUBMISSION ACCORDINGLY IF LIST IS OVER 5 NAMES, IT MUST BE SUBMITTED IN A WORD FORMAT, EITHER BY EMAIL OR DISK. EMAIL ADDRESS IS SRAMGOOLAM@WAYLAND.MA.US

Date of request	10/11/03	Telephone: 617 - 646 - 7815
Address <u>349</u>	Boylston St, 6th Fl:	Dor, Boston Ma 02116
Person requesting	certification (PLEASE PRINT),	Jeremy Picard do ERM
Signature	Que C1	
Name Of Applicant	Raytneon Comp	Any
Address 5	28 Baston Post Ro	and Suddery Ma AITLE
Location of Propert	y <u>Attached</u>	
Map Number	Parcel	Number of Abutters on list

***Please check with the Board/Commission for their guidelines, each Board/Commission has its own regulations for their abutters listing.

For use by Assessors

The attached list has more than three errors - Please submit a corrected list

The attached list is certified to be a correct listing of abutters for the described application, based on the most recent tax bill

Certified By: Title	Signature:
Fee	Date 10/9/03

Abutters requestform.doc

04/28/03



WAYLAND BOARD OF ASSESSORS

Prepared for Raytheon Company for Activities to be conducted on the following parcels: Town of Wayland, MA List of Abutters

Plot #	Address	Owner	Mailing Address
17-05A	0 Old Sudbury Road	United States of America Fish and Wildlife Service,	United States of America Fish and Wildlife Service, 300 Westgate Center Drive, Hadley, MA 01035-9589
18-1	0 Old Sudbury Road	Town of Wayland Conservation Commission,	41 Cochituate Road, Wavland, MA 01778
18-3	0 Old Sudbury Road		41 Cochituate Road, Wayland, MA 01778
18-4	0 Old Sudbury Road		41 Cochituate Road, Wavland, MA 01778
18-5	0 Old Sudbury Road		41 Cochituate Road, Wavland, MA 01778
18-6	0 Old Sudbury Road	Town of Wayland Conservation Commission,	41 Cochituate Road, Wayland, MA 01778
22-11	0 Old Sudbury Road	vice, 3	00 Westgate Center Drive, Hadlev, MA 01035-9589
23-52A	0 Old Sudbury Road	Town of Wayland Conservation Commission,	41 Cochituate Road, Wayland, MA 01778
23-52	400 Boston Post Road	Wayland Business Center, holdings LLC	40 Congress Group Ventures Inc 1 Memorial Dr.
		Cambridge MA 02142	
	Contract Iourner	CI	

Abutters subject to activities to be conducted on the above properties is as follows: Contact Jeremy Picard at 617.646.7815 or <u>leremy.picard@erm.com</u>

300 Westgate Center Drive, Hadley, MA 01035-9589 86 Old Sudbury Road, Wayland, MA 01778 88 Old Sudbury Road, Wayland, MA 01778 124 Old Sudbury Road, Wayland, MA 01778 84 Old Sudbury Road, Wayland, MA 01778 100 Old Sudbury Road, Wayland, MA 01778 104 Old Sudbury Road, Wayland, MA 01778 121 Old Sudbury Road Wayland, MA 01778 96 Old Sudbury Road, Wayland, MA 01778 92 Old Sudbury Road, Wayland, MA 01778 12 Prospect Street Upton MA 01568 Mailing Address United States of America Fish and Wildlife Service, Quina Corporation C/O Wayland Country Club, Lynch Landscaping & Tree Service Inc, Shahram Shayan & Jowkar, Shahin Pilar M. Boorman, & Pott Allan William Kiesman, & Kristine A Francis D. & Regina Kennedy, John C. & Patricia Donahue, David A & Teresa Hicks, Michael R. Ball, & Sally Quirk Associate LTD Owner 110 Old Sudbury Road 121 Old Sudbury Road 100 Old Sudbury Road **104 Old Sudbury Road** 124 Old Sudbury Road 92 Old Sudbury Road 96 Old Sudbury Road 84 Old Sudbury Road 86 Old Sudbury Road 88 Old Sudbury Road 0 Old Sudbury Road Address 17-24A 17-003 17-26A 17-001 17-002 Plot # 17-004 17-005 17-006 17-25A 17-20 17-24 17-25 17-26 13-1 18-7 18-9 18-8

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1.0 INTRODUCTION

1.1 Background

On behalf of Raytheon Company (Raytheon), Environmental Resources Management (ERM) has prepared this Notice of Intent (NOI) to conduct additional assessment activities related to the northern portion of the approximately 83-acre property located at the former Raytheon Facility, x 430 Boston Post Road in Wayland, Massachusetts (defined as the "Site", Figure 1). These activities will be conducted as Preliminary Response Actions pursuant to the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000).

As part of ongoing comprehensive response actions at the Site (RTN #3-13302 and Tier IB Permit No. 133939), a series of groundwater characterization activities were conducted during Summer 2002. These activities were presented to the Department in a "Revised Scope of Work: Additional Site Characterization Activities," dated 20 June 2002. Results of these activities were presented in the Phase IV Remedy Implementation Plan (December 2002) and the Final Scope of Work (June 2003). Chlorinated volatile organic compounds (CVOCs: tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cDCE) and vinyl chloride (VC)) were identified in groundwater beneath the northern portion of the Site (hereafter referred to as the Northern Area) in excess of applicable Reportable Concentrations (RCGW-1). On behalf of Raytheon, ERM submitted a Release Notification Form (RNF, BWSC-103) to the Massachusetts Department of Environmental Protection (Department) on 17 December 2002, pursuant to 310 CMR 40.0315(1). The Department issued a Notice of Responsibility and Release Tracking Number (RTN) #3-22408 on 16 January 2003 for the RNF.

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2.0 SCOPE OF WORK

The activities associated with this NOI are designed to further evaluate the following issues associated with RTN # 3-22408:

- potential for CVOCs from the Site to impact the Baldwin Pond Wellfield; and
- downgradient extent of CVOC plume in the Northern Area.

Completion of these activities requires the advancement of up to 19 soil borings in the locations shown on Figure 2. A maximum of three of the boring are located within wetland areas and the majority of the remaining borings are located within wetland buffer zones. Site investigation activities will be conducted in accordance with the Order of Conditions prepared by the Wayland Conservation Commission in response to this NOI.

Conduct Vertical Groundwater Profiling

The purpose of this task is to evaluate the potential for CVOC impacts to groundwater in the Northern Area to impact the Baldwin Pond Wellfield. Based on data collected to date, the Northern Area CVOC plume is generally migrating westward toward the Sudbury River. The Baldwin Pond Wellfield is located approximately 3,250 feet north of and perpendicular to the plume axis. However, as noted in the Conceptual Site Model (Final Scope of Work, June 2003), it is possible that the plume may change direction and travel to the north within the Sudbury River valley. In order for the plume to reach the wellfield, it would have to migrate north within the river valley and be drawn back to the east by the hydraulic influence of the wellfield.

To evaluate this potential scenario, ERM proposes to conduct vertical groundwater profiling using north-south and east-west transects, as shown on Figure 2. These transects are aligned such that they will intersect the plume if it is migrating toward the wellfield. The vertical groundwater profiling will be conducted using a Modified Waterloo Profiler. This is the same technique that was originally used to locate and delineate the CVOC plume in the Northern Area.

Waterloo Profiler borings will be advanced to refusal at up to 16 locations as shown in Figure 2. ERM has conducted a series of seismic refraction transects to evaluate the depth to bedrock near select proposed drilling locations. These data will be used to ensure that the Waterloo Profiler borings are advanced to the approximate bedrock surface.

The Waterloo Profiler produces a detailed log of relative hydraulic conductivity and allows for collection of multiple groundwater samples from discrete intervals during advancement of the borehole. Groundwater samples will be collected during advancement of the borings from higher hydraulic conductivity zones and analyzed for VOCs. Relative hydraulic head and geochemical parameters will be measured at each sampling interval. The VOC and geochemical data will be used to evaluate vertical variations in aquifer geochemistry. The total number of samples collected from each boring will be based on hydrogeologic conditions encountered at each location.

The Waterloo Profiler borings will be advanced using a combination of drill rigs and drilling techniques, depending on accessibility to the boring location and the depth to bedrock at each drilling location. Initially, each location will be advances using direct push (Geoprobe) drilling technique, which is the least invasive drilling method appropriate for this investigation. If the Waterloo Profiler boring is refused before top of bedrock, an alternative drilling technique will be used to advance past the obstruction. Drilling techniques may include:

- hollow stem augers with or without the use of drilling mud;
- drive and wash casing; or
- mud rotary.

Both truck-mounted and all terrain vehicle drill rigs may be used. Photographs of a drill rig are shown on Photograph 1. The Waterloo Profiler equipment will be contained within a truck to the extent feasible, as shown on Photograph 2. In areas where truck accessibility is not feasible, the Profiler equipment will be transported by hand or on an allterrain vehicle. Minor brush clearing and limb removal of trees may be required to provide access to the proposed locations. If possible, access to the proposed locations will be obtained without removal of trees. If tree removal is necessary, no native Middlesex county species will be removed.

At the completion of the vertical profiling, disturbed ground or exposed areas shall be brought to final finished grade and stabilized with loam and seed. Disturbed ground that cannot be permanently stabilized within one month of project completion shall be stabilized by temporary measures, such as jute netting, or hydroseeding. An effort will be made to prevent damage to the fields where the work will be conducted.

ERM will use straw bales and silt fence to minimize the potential for siltation of wetland areas. These precautions will be used for borings located within mapped wetlands or buffer zones. A straw bale and silt fence drawing is provided as Figure 3. Soil cuttings and drilling fluids will be contained within the working area (i.e., within the silt fence and straw bales) and returned to the borehole following completion or drummed and removed from the work area. Following completion of the borehole, the ground surface will be raked in an effort to minimize visual evidence of the drilling activities.

Advance Soil Borings and Install Monitoring Wells

The purpose of this task is to further delineate the nature and extent of CVOC impacts to groundwater in the Northern Area. ERM proposes to advance up to three borings and install three monitoring well triplets within the wetlands adjacent to the Sudbury River. The proposed locations are approximate and may be modified depending on field conditions (Figure 2). This drilling program will be conducted in conjunction with the upcoming wetland sediment remediation program, due to a series of synergies that can be gained from conducting the two programs simultaneously (e.g., easy access into wetlands via construction roadway, limit potential impact to the wetlands, and wetland restoration activities, if necessary).

A temporary roadway in the upland area, as detailed on Figure 4 and Figure 5, will be prepared to provide access to the wetlands. Brush clearing, removal of vegetation, and grading will be required prior to installation of the temporary roadway. If possible, the temporary roadway will be installed without removal of trees. If tree removal is necessary, no native Middlesex county species will be removed. At the completion of the drilling project, disturbed ground or exposed areas shall be brought to final finished grade and stabilized with loam and seed. Disturbed ground that cannot be permanently stabilized within one month of completion shall be stabilized by temporary measures, such as jute netting, or hydroseeding.

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A temporary roadway will be constructed to each drilling location in the wetland as detailed on Figure 4 and Figure 5. This roadway will be constructed using a combination of temporary roadway support systems including inert plastic geotextiles and various wood and/or metal platform devices. No pressure treated lumber will be used for support systems. This system will be designed to limit the potential damage to the wetlands while providing access for the equipment. Additional details on this type of roadway construction are provided in Photograph 3.

To further mitigate potential wetlands impacts, an all terrain vehicle (ATV) drill rig or truck mounted drill rig will be used to advance each boring to the top of bedrock. This rig will operate using sonic drilling techniques. Sonic drilling uses vibration to advance the borehole into the subsurface (as opposed to more conventional drilling techniques using augers or rotary methods). Sonic was selected specifically for this drilling program so as to minimize potential disturbance to the formation, minimize the cuttings removed from each location, minimize the use of drilling fluids and most importantly, minimize potential impacts to the wetland areas during drilling. If water is required use as a drilling fluid, a "trash pump" or alternative will be used to withdraw water from the Sudbury River to fill a water truck or tank. A screen filter will be used to prevent the intake of suspended solids.

The ATV rig uses large footprint, low pressure and high flotation tires or wide flotation tracks for movement (Photograph 4). The large tires or tracks provide excellent weight distribution allowing the rig to exert low ground pressures. In combination with the access roadways, ERM anticipates that impacts to the wetlands will be limited to minor sinking during vehicular travel and limited impacts in the immediate work area around each borehole location. It is anticipated that these minor impacts will rapidly recover within one growing season as the vegetation recovers. ERM's wetlands specialists will visually monitor the wetlands areas following the drilling project. If the visual impairment of the wetland is observed, ERM will plan and implement appropriate remediation activities, which may include resoiling and replanting (ERM will seek Conservation Commission approval for soil and plant type). At the conclusion of each boring, roadway materials will be removed for reuse in other areas of the site. At the conclusion of the drilling, all roadway materials will be removed from the roadway.

The drill rig will be refueled in the wetland as necessary during the drilling project. A support truck will be used to deliver fuel to the drill

rig. The drilling subcontractor will be required to use the following equipment during fuel transfer:

- Positive pressure pumps and leak proof hoses;
- Non sparking equipment and grounding during transfer; and
- Secondary spill containment berms and/or containers around the fuel storage container;
- Spill kit, if necessary.

ERM will use straw bales and silt fences (Figure 3) to minimize the potential for siltation of wetland areas. Soil cuttings generated as a result of sonic drilling are contained within a plastic sleeve inside the drill pipe. Soil cuttings and drilling fluids will be contained within the working area (i.e., within the silt fence and straw bales) and returned to the borehole following completion or drummed and removed from the work area (drums will be stored outside of the buffer zone. Following completion of the borehole, the ground surface will be raked in an effort to minimize visual evidence of the drilling activities.

Continuous soil samples will be collected and screened in the field for total VOCs using a PID and the jar headspace method. PID screening results were successfully used in the December 2002 Northern Area drilling program to locate the CVOC plume. One shallow soil sample from each boring will be submitted for laboratory analysis of VOCs by EPA Method 8260/5035.

ERM proposes to install three monitoring wells in each boring at the following depths:

- within the upper fine sand and silt unit or the silt and clay unit;
- within the lower fine sand and silt unit at the depth of the highest PID readings; and
- top of till or top of bedrock.

Monitoring wells will be constructed using two-inch ID PVC, 0.010-inch machine slotted, well screen, PVC riser pipe, sand filter pack, bentonite seal, concrete surface seal and locking steel protective standpipes. The deep and shallow well at each location will be installed using a five-foot long well screen. The middle well will be installed using either five-foot or ten-foot long well screens, depending on field screening results.

Monitoring wells will be developed following installation. All fluids shall be contained in a sedimentation tank and will not be discharged directly into the wetland.

Survey, Gauge and Sample Monitoring Wells

The purpose of this task is to evaluate groundwater elevations and groundwater quality in the Northern Area. ERM proposes to conduct quarterly groundwater elevation gauging rounds across the entire Site and conduct semi-annual groundwater monitoring rounds in the Northern Area.

Groundwater Elevation Gauging

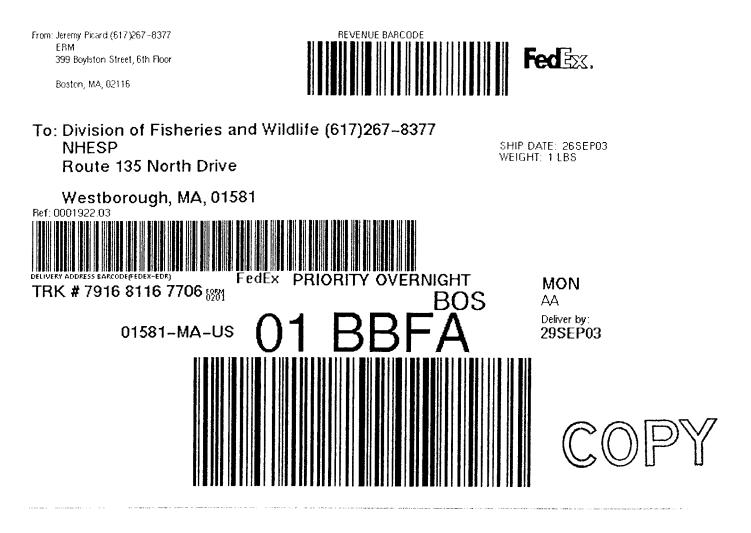
To accurately determine groundwater elevations and flow directions across the Site, ERM recommends conducting quarterly groundwater elevation gauging rounds. ERM will gauge depths to groundwater in all existing Site wells on a single day using electronic water-level indicators. Newly installed monitoring wells will be surveyed relative to mean sea level and locations will be surveyed relative to the existing Site grid. Gauging will be conducted prior to sample collection.

Groundwater Sampling

To evaluate groundwater quality at the Site, ERM recommends conducting semi-annual groundwater monitoring events. Groundwater samples will be collected using low-flow or diffusion bag sampling techniques.

Survey Monitoring Wells

ERM will survey the locations and elevations of newly installed monitoring wells relative to the national geodetic vertical datum (NGVD). ERM will gauge all wells at the Site to determine vertical hydraulic gradients.



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