



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

Wayland  
City/Town

WPA Form 1- Request for Determination of Applicability

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

A. General Information

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



1. Applicant:

Edwin Madera C/O Raytheon	edwin_p_madera@raytheon.com	
Name	E-Mail Address	
528 Boston Post Road Mailstop 1800		
Mailing Address		
Sudbury	MA	01776
City/Town	State	Zip Code
978.440.1813	978.440.2176	
Phone Number	Fax Number (if applicable)	

2. Representative (if any):

Environmental Resources Management		
Firm		
John Drobinski	john.drobinski@erm.com	
Contact Name	E-Mail Address	
399 Boylston Street, 6 <sup>th</sup> Floor		
Mailing Address		
Boston	MA	02116
City/Town	State	Zip Code
(617) 267-8377	(617) 267-6447	
Phone Number	Fax Number (if applicable)	

B. Determinations

1. I request the Wayland Conservation Commission make the following determination(s). Check any that apply:

- a. whether the **area** depicted on plan(s) and/or map(s) referenced below is an area subject to jurisdiction of the Wetlands Protection Act.
- b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced below are accurately delineated.
- c. whether the **work** depicted on plan(s) referenced below is subject to the Wetlands Protection Act.
- d. whether the area and/or work depicted on plan(s) referenced below is subject to the jurisdiction of any **municipal wetlands ordinance** or **bylaw** of:

\_\_\_\_\_  
Name of Municipality

- e. whether the following **scope of alternatives** is adequate for work in the Riverfront Area as depicted on referenced plan(s).

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



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**C. Project Description**

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):

See Figures 1 and 2	Wayland
Street Address	City/Town
See Figure 2	Numerous - See Figure 2
Assessors Map/Plat Number	Parcel/Lot Number

b. Area Description (use additional paper, if necessary):

See Attachment

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c. Plan and/or Map Reference(s):

Figure 1 Site Locus Map	6/5/03
Title	
Figure 2 Site Layout Plan	6/5/03
Title	Date
Title	Date

2. a. Work Description (use additional paper and/or provide plan(s) of work, if necessary):

See Attachment

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**C. Project Description (cont.)**

b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

See Attachment

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3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.

- Single family house on a lot recorded on or before 8/1/96
- Single family house on a lot recorded after 8/1/96
- Expansion of an existing structure on a lot recorded after 8/1/96
- Project, other than a single family house or public project, where the applicant owned the lot before 8/7/96
- New agriculture or aquaculture project
- Public project where funds were appropriated prior to 8/7/96
- Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
- Residential subdivision; institutional, industrial, or commercial project
- Municipal project
- District, county, state, or federal government project
- Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.

b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)

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## D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office (see Appendix A) were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Name and address of the property owner:

Edwin Madera C/O Raytheon

Name

528 Boston Post Road Mailstop 1800

Mailing Address

Sudbury

City/Town

MA

State

01776

Zip Code

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

*Edwin Madera*  
Signature of Applicant

6/13/03  
Date

*[Signature]*  
Signature of Representative (if any)

6/13/03  
Date



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands  
**WPA Appendix A – DEP Regional Addresses**  
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

**Mail transmittal forms and DEP payments, payable to:**

Commonwealth of Massachusetts  
Department of Environmental Protection  
Box 4062  
Boston, MA 02211

**DEP Western Region**

436 Dwight Street  
Suite 402  
Springfield, MA 01103  
Phone: 413-784-1100  
Fax: 413-784-1149

Adams	Colrain	Hampden	Monroe	Pittsfield	Tyringham
Agawam	Conway	Hancock	Montague	Plainfield	Wales
Alford	Cummington	Hatfield	Monterey	Richmond	Ware
Amherst	Dalton	Hawley	Montgomery	Rowe	Warwick
Ashfield	Deerfield	Heath	Monson	Russell	Washington
Becket	Easthampton	Hinsdale	Mount	Sandisfield	Wendell
Belchertown	n	Holland	Washington	Savoy	Westfield
Barnardston	East	Holyoke	New Ashford	Sheffield	Westhampton
Blandford	Longmeadow	Huntington	New Marlborough	Shelburne	West Springfield
Brimfield	w Egremont	Lanesborough	New Salem	Shutesbury	West Stockbridge
Buckland	Erving	Lee	North Adams	Southampton	Whately
Charlemont	Florida	Lenox	Northampton	South Hadley	Wilbraham
Cheshire	Gill	Leverett	Northfield	Southwick	Williamsburg
Chester	Goshen	Leyden	Orange	Springfield	Williamstown
Chesterfield	Granby	Longmeadow	Otis	Stockbridge	Windsor
Chicopee	Granville	Ludlow	Palmer	Sunderland	Worthington
Clarksburg	Great	Middlefield	Pelham	Tolland	
	Barrington		Peru		
	Greenfield				
	Hadley				

**DEP Central Region**

627 Main Street  
Worcester, MA 01605  
Phone: 508-792-7650  
Fax: 508-792-7621  
TDD: 508-767-2788

Acton	Charlton	Hopkinton	Millbury	Rutland	Uxbridge
Ashburnham	Clinton	Hubbardston	Millville	Shirley	Warren
Ashby	Douglas	Hudson	New Braintree	Shrewsbury	Webster
Athol	Dudley	Holliston	Northborough	Southborough	Westborough
Auburn	Dunstable	Lancaster	Northbridge	Southbridge	West Boylston
Ayer	East	Leicester	North Brookfield	Spencer	West Brookfield
Barre	Brookfield	Leominster	Oakham	Sterling	Westford
Bellingham	Fitchburg	Littleton	Oxford	Stow	Westminster
Berlin	Gardner	Lunenburg	Paxton	Sturbridge	Winchendon
Blackstone	Grafton	Marlborough	Pepperell	Sutton	Worcester
Bolton	Groton	Maynard	Petersham	Templeton	
Boxborough	Harvard	Medway	Phillipston	Townsend	
Boylston	Hardwick	Mendon	Princeton	Tyngsborough	
Brookfield	Holden	Milford	Royalston	Upton	
	Hopedale				

**DEP Southeast Region**

20 Riverside Drive  
Lakeville, MA 02347  
Phone: 508-946-2700  
Fax: 508-947-6557  
TDD: 508-946-2795

Abington	Dartmouth	Freetown	Mattapoisett	Provincetown	Tisbury
Acushnet	Dennis	Gay Head	Middleborough	Raynham	Truro
Attleboro	Dighton	Gosnold	Nantucket	Rehoboth	Wareham
Avon	Duxbury	Halifax	New Bedford	Rochester	Welfleet
Barnstable	Eastham	Hanover	North	Rockland	West Bridgewater
Berkley	East	Hanson	Attleborough	Southwich	Westport
Bourne	Bridgewater	Harwich	Norton	Scituate	West Tisbury
Brewster	Easton	Kingston	Norwell	Seekonk	Whitman
Bridgewater	Edgartown	Lakeville	Oak Bluffs	Sharon	Wrentham
Brockton	Fairhaven	Mansfield	Orleans	Somerset	Yarmouth
Carver	Fall River	Marion	Pembroke	Stoughton	
Chatham	Falmouth	Marshfield	Plainville	Swansea	
Chilmark	Foxborough	Mashpee	Plymouth	Taunton	
	Franklin		Plympton		

**DEP Northeast Region**

205 Lowell Street  
Wilmington, MA 01887  
Phone: 978-661-7600  
Fax: 978-661-7615  
TDD: 978-661-7679

Amesbury	Chelmsford	Hingham	Merrimac	Quincy	Wakefield
Andover	Chelsea	Holbrook	Methuen	Randolph	Walpole
Arlington	Cohasset	Hull	Middleton	Reading	Waltham
Ashland	Concord	Ipswich	Millis	Revere	Watertown
Bedford	Danvers	Lawrence	Milton	Rockport	Wayland
Belmont	Dedham	Lexington	Nahant	Rowley	Wellesley
Beverly	Dover	Lincoln	Natick	Salem	Wenham
Billerica	Dracut	Lowell	Needham	Salisbury	West Newbury
Boston	Essex	Lynn	Newbury	Saugus	Weston
Boxford	Everett	Lynnfield	Newburyport	Sherborn	Westwood
Braintree	Framingham	Malden	Newton	Somerville	Weymouth
Brookline	Georgetown	Manchester-BY-	Norfolk	Stonham	Wilmington
Burlington	Gloucester	The-Sea	North Andover	Sudbury	Winchester
Cambridge	Groveland	Marblehead	North Reading	Swampscott	Winthrop
Canton	Hamilton	Medfield	Norwood	Tewksbury	Woburn
Carlisle	Haverhill	Melrose	Peabody	Topsfield	

**ATTACHMENT TO WPA FORM 1 – REQUEST FOR  
DETERMINATION OF APPLICABILITY**

**C. PROJECT DESCRIPTION**

**1a. Project Location**

Environmental Resources Management (ERM), Inc. on behalf of Raytheon Company (Raytheon) is requesting a Determination of Applicability for the completion of a geophysical survey related to ongoing environmental assessment activities for the former Raytheon Facility at 430 Boston Post Road, Wayland, Massachusetts (the “Site” Figures 1). The proposed geophysical survey, specifically seismic refraction, will be conducted along approximately 5,000 linear feet of transects north of the Site, as shown on Figure 2.

**1b. Area Description**

The proposed seismic refraction survey is anticipated to occur on and will be limited to properties owned by the Town of Wayland and the United States Fish and Wildlife. The parcels on which the seismic refraction survey is proposed are shown on Figure 2. The parcels are comprised of wooded areas and open fields. Portions of the proposed seismic refraction survey transects will be located within a wetlands resource area and the 100-foot wetlands buffer zone. The portions proposed to occur within the wetland resource area are tentative and may not be conducted due to potential high water elevations that would limit access. The seismic refraction survey will not be conducted along Old Sudbury Road due to road noise, which would diminish the energy source.

**2a. Work Description**

The proposed geophysical survey is being completed as part of comprehensive response actions conducted pursuant to the Massachusetts Contingency Plan (310 CMR 40.0000) at the former Raytheon facility for Massachusetts Department of Environmental Protection (DEP) Release Tracking Number (RTN) #3-22408.

The purpose of this task is to gather the data necessary to design the proposed additional subsurface investigation activities proposed in the Final Scope Of Work, dated 13 June 2003, for the Site. ERM proposes to conduct approximately 5,000 linear feet of seismic refraction surveys to

estimate the depth to top of bedrock. Following evaluation of the seismic refraction data, a Notice of Intent (NOI) will be filed with the DEP and Wayland Conservation Commission for the additional subsurface investigations.

Seismic refraction is a commonly used geophysical technique to determine depth to bedrock. In seismic refraction surveys, a near-surface 'impulsive' energy source is used to create a seismic wave, which travels through the earth and is refracted along stratigraphic boundaries. This refracted energy is detected by a series of sensitive geophones deployed along the ground surface. By measuring the travel-times from the source to each geophone, the velocities of the subsurface materials and the depths to the material interfaces can be computed.

The equipment required for conducting seismic refraction includes geophones, cables, recording device, equipment truck, and two personnel. The necessary equipment will cause minor disturbances to the ground surface. No heavy equipment will be needed to conduct this study. Geophone cables will be deployed to minimize disturbances to ground cover vegetation. Photographs depicting a geophone and geophone cable deployed for seismic refraction are shown in Figure 3.

All data generated as a result of the seismic refraction will be shared with the Conservation Commission and the town in accordance with the current Public Involvement Plan (PIP) process.

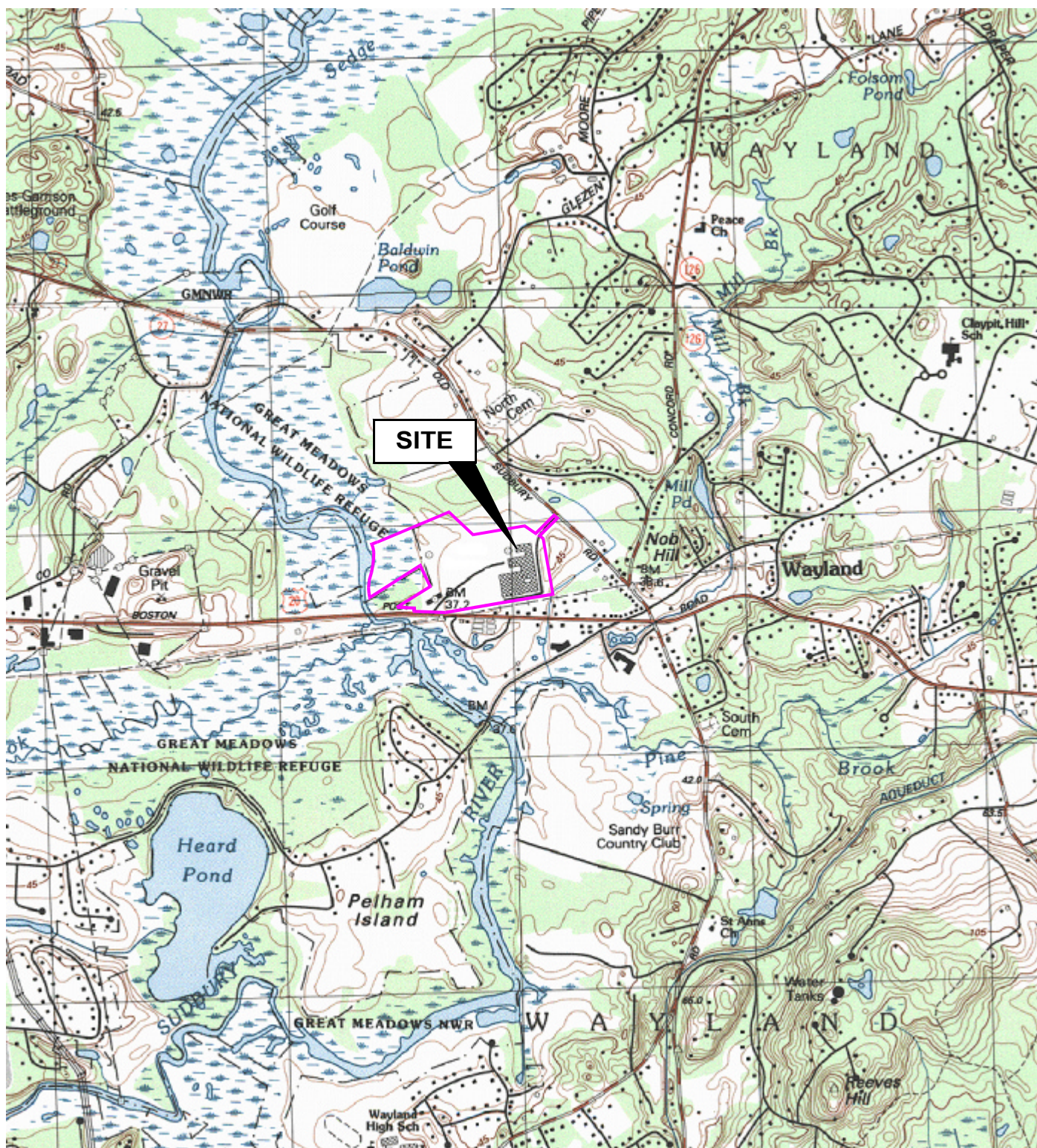
***2b. Identify provisions in the Wetland Protection Act which may exempt the applicant from having to file a Notice of Intent for the described work***

It is ERM's opinion of that the proposed activities are considered "minor," pursuant to 310 CMR 10.58(6). Minor activities within buffer zones include "monitoring wells, exploratory borings, soil sampling and surveying...that have negligible impacts and are necessary for planning and design purposes." ERM will conduct the proposed work activities using mitigative measures that minimize alterations to the existing natural resources.

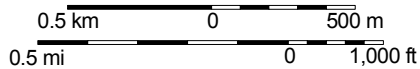
**Property Owners and Abutters for RDA**

<b>Plot #</b>	<b>Address</b>	<b>Owner Mailing Address</b>
17-001	92 Old Sudbury Road	William Kiesman, 92 Old Sudbury Road, Wayland, MA 01778
17-002	96 Old Sudbury Road	Pilar M. Boorman, 96 Old Sudbury Road, Wayland, MA 01778
17-003	100 Old Sudbury Road	Michael R. Ball, 100 Old Sudbury Road, Wayland, MA 01778
17-004	104 Old Sudbury Road	Shahram Shayan, 104 Old Sudbury Road, Wayland, MA 01778
17-005	110 Old Sudbury Road	Lynch Landscaping, 110 Old Sudbury Road, Wayland, MA 01778
17-006	124 Old Sudbury Road	Quina Corporation, 124 Old Sudbury Road, Wayland, MA 01778
17-05A	300 Westgate Center Drive	United States of America Fish and Wildlife Service, 300 Westgate Center Drive, Hadley, MA 01035-9589
17-24	300 Westgate Center Drive	United States of America Fish and Wildlife Service, 300 Westgate Center Drive, Hadley, MA 01035-9589
17-24A	300 Westgate Center Drive	United States of America Fish and Wildlife Service, 300 Westgate Center Drive, Hadley, MA 01035-9589
17-25	300 Westgate Center Drive	United States of America Fish and Wildlife Service, 300 Westgate Center Drive, Hadley, MA 01035-9589
17-25	300 Westgate Center Drive	United States of America Fish and Wildlife Service, 300 Westgate Center Drive, Hadley, MA 01035-9589
17-25A	300 Westgate Center Drive	United States of America Fish and Wildlife Service, 300 Westgate Center Drive, Hadley, MA 01035-9589
17-26	300 Westgate Center Drive	United States of America Fish and Wildlife Service, 300 Westgate Center Drive, Hadley, MA 01035-9589
17-26A	300 Westgate Center Drive	United States of America Fish and Wildlife Service, 300 Westgate Center Drive, Hadley, MA 01035-9589
18-7	84 Old Sudbury Road	Francis D. Kennedy, 84 Old Sudbury Road, Wayland, MA 01778
18-8	86 Old Sudbury Road	John C. Donahue, 86 Old Sudbury Road, Wayland, MA 01778
18-9	88 Old Sudbury Road	David A. Hicks, 88 Old Sudbury Road, Wayland, MA 01778
18-1	41 Cochituate Road	Town of Wayland Conservation Commission, 41 Cochituate Road, Wayland, MA 01778
18-3	41 Cochituate Road	Town of Wayland Conservation Commission, 41 Cochituate Road, Wayland, MA 01778
18-4	41 Cochituate Road	Town of Wayland Conservation Commission, 41 Cochituate Road, Wayland, MA 01778
18-5	41 Cochituate Road	Town of Wayland Conservation Commission, 41 Cochituate Road, Wayland, MA 01778
18-6	41 Cochituate Road	Town of Wayland Conservation Commission, 41 Cochituate Road, Wayland, MA 01778
22-11	300 Westgate Center Drive	United States of America Fish and Wildlife Service, 300 Westgate Center Drive, Hadley, MA 01035-9589
23-52A	41 Cochituate Road	Town of Wayland Conservation Commission, 41 Cochituate Road, Wayland, MA 01778





Scale 1:25,000



**Legend**

— Property Boundary



 ENVIRONMENTAL RESOURCES MANAGEMENT  
ERM

399 Boylston Street, Boston, Massachusetts 02116 (617) 267-8377

CLIENT NAME: Raytheon DRAWN BY: JE DATE: 4/17/03

FILE NAME: Locus Map SCALE: 1:25,000 PROJ: 1922.03

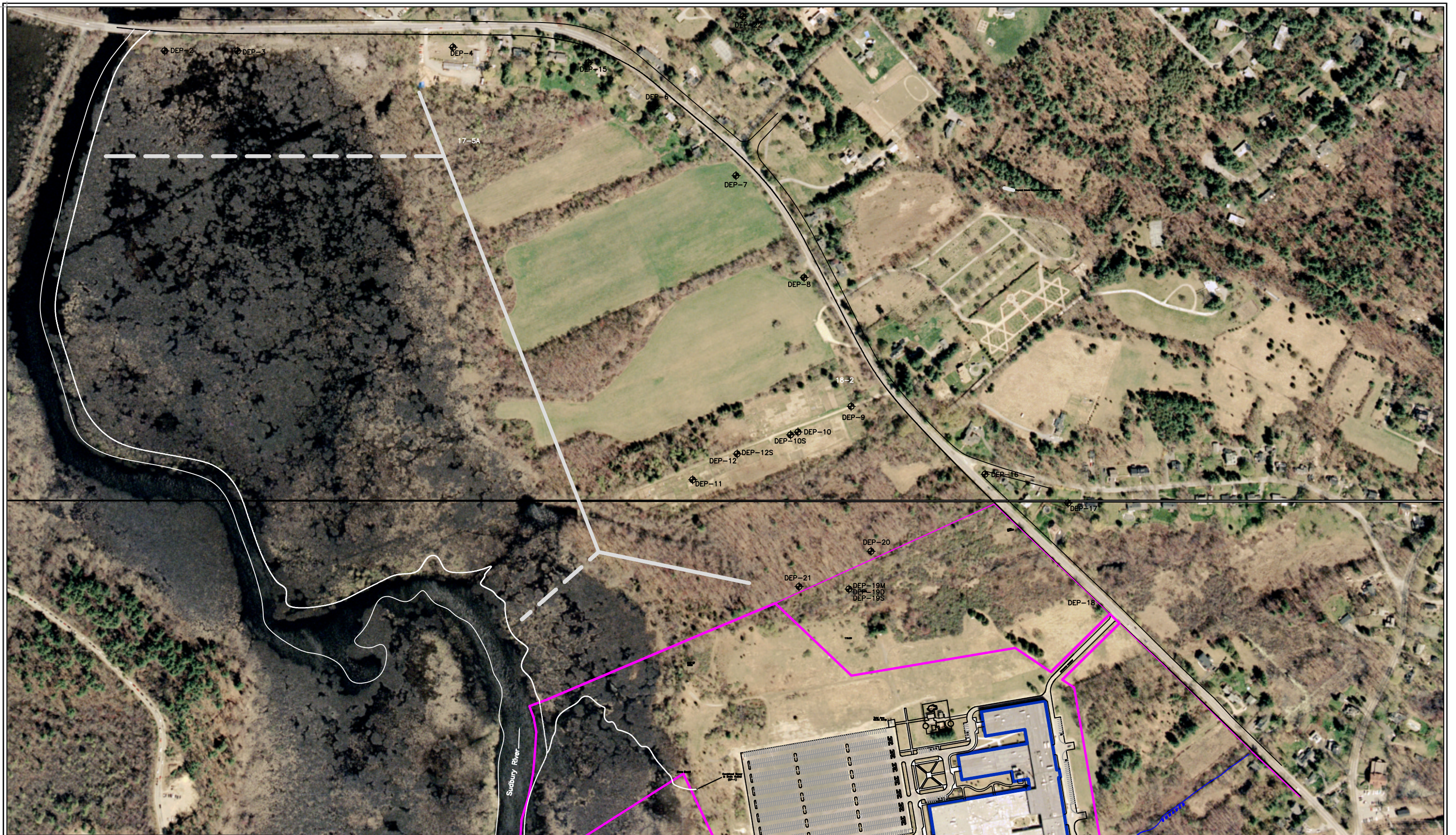
Former Raytheon Facility  
430 Boston Post Road Wayland, Massachusetts

Locus Map

FIGURE NO.:  
1

PRINCIPAL-IN-CHARGE: JD PROJECT MANAGER: RJF





**Legend**

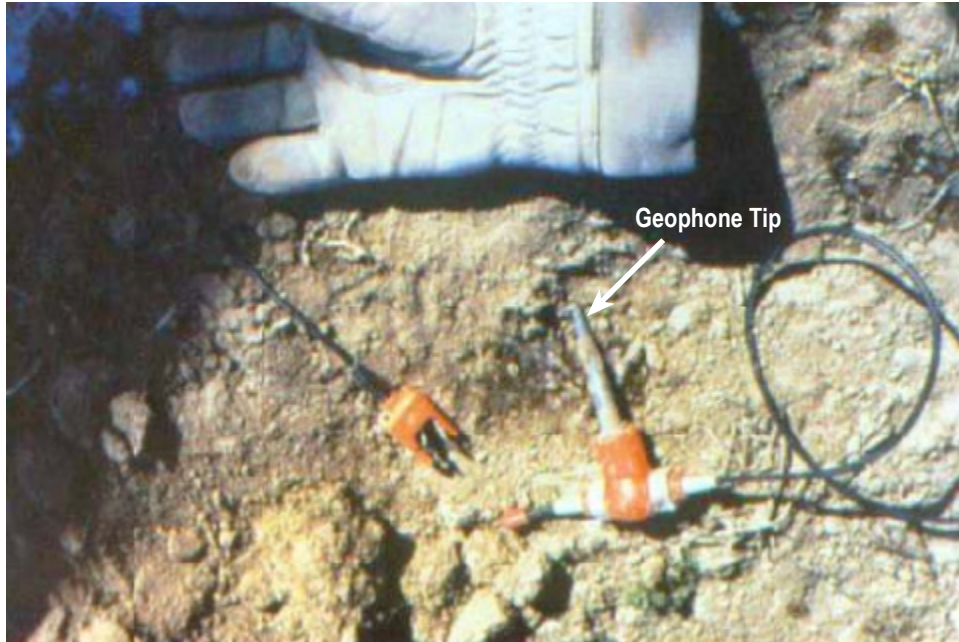
- Property Line
- - - Proposed Seismic Refraction (dashed where tentative)

**Environmental Resources Management**  
 399 Boylston Street  
 Boston, MA 02116  
 (617) 267-8377

Revisions			
Symbol	Description	Date	Approved
	Photo		
	R:\Raytheon\Wayland - 1922\Raytheon Figures.dwg		

Designed by:	Former Raytheon Facility 430 Boston Post Road Wayland, MA	
Drawn by:	JE	
Checked by:	JP	
Reviewed by:	RJJ	
Submitted by:		
Scale: 1"=400'	Date: 6/11/03	
Drawing No.	Figure No. 2	
Contract No. 1922.03		






Photograph showing scale of geophone. The geophone tip is set into the ground to record the energy impulse.



Photograph showing deployment of geophones and cable.

 ENVIRONMENTAL RESOURCES MANAGEMENT ERM			
399 Boylston Street, Boston, Massachusetts 02116 (617) 267-8377			
CLIENT NAME:	Raytheon	DRAWN BY:	JE
FILE NAME:	Photos.fh11	DATE:	6/11/03
		SCALE:	NTS
		PROJ:	1922.03
Former Raytheon Facility 430 Boston Post Road Wayland, Massachusetts			
Geophone Photographs			FIGURE NO.: 3
PRINCIPAL-IN-CHARGE:	JD	PROJECT MANAGER:	RJF