



7 February 2003
Reference: 143.64

Ms. Karen Kirk Adams
US Army Corps of Engineers
Regulatory Branch
696 Virginia Road
Concord, MA 01742-2751

Subject: Application for Department of the Army Permit
Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts

Dear Ms. Kirk Adams:

Woodlot Alternatives, Inc. (Woodlot) and Environmental Resources Management, Inc. (ERM) are pleased to provide the wetland impact permit applications to your respective agencies. This application includes the Application for Department of the Army Permit, and a supporting document titled, *Regulatory Permit Application for Wetland Impact Permit Applications for the Oils and Hazardous Materials Remediation on the Former Raytheon Property, Wayland, Massachusetts*. The remediation is being pursued through the Massachusetts Contingency Plan, Massachusetts Executive Office of Environmental Affairs, Massachusetts Bureau of Resource Protection and Town of Wayland Conservation Commission. As part of this process various wetland related permits are required and we have tried to address all the regulatory requirements in one report since there is a substantial amount of overlap between the regulations. The application report is organized into sections discussed below.

1. Executive Summary: Overview of the project.
2. Ecological Characterization: A summary of the Woodlot studies of the natural communities on the site including an endangered species assessment, flooding characterization, and a wetland functions and values assessment.
3. Hazardous Waste Summary: A summary of the ERM studies on oils and hazardous materials (OHM) found in the wetland soils.

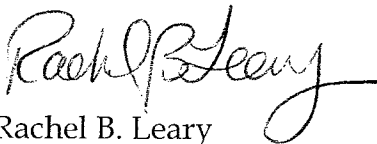
4. Alternatives Analysis: A discussion of the remedial technology options and the process by which the proposed technology was chosen.
5. Proposed Remediation Process: A discussion of the actual remediation activity and how it will be implemented. Site-specific design features and wetland impacts are discussed.
6. Avoidance and Minimization of Impacts: Provides a discussion of aspects of the remediation that will be employed to avoid and reduce temporary wetland impacts. This includes a discussion of the risk-based remediation objectives as required by the Massachusetts Contingency Plan.
7. Restoration Plan: Provides detail of the proposed restoration effort to restore the impacted wetland area.
8. Regulatory Criteria Assessment: This section summarizes the permit review and issuance criteria for the Individual Permit – Army Corps of Engineers and Environmental Protection Agency, Massachusetts Wetland Protection Act, and the Massachusetts Environmental Policy Act. This information should also help address issues related to the State 401 Water Quality Certification. It is provided to help insure that all the regulatory criteria are addressed in this application and the permit reviewers may use this information to help process the applications.
9. Summary: A brief summation of the above information.
10. References: Scientific literature citations.

A number of exhibits and appendices are included which provide more detail on a variety of topics including the alternatives analysis, hazardous waste data, and wildlife and plant surveys. Several exhibits provide support for the restoration plan and the minimization effort and a number of site photos. The application forms and fees are also attached. The input that we received during the pre-application meetings was very helpful and we have made very effort to include those suggestions in our applications. As with any permit application there will likely be additional information, clarification, and modifications that we will need to provide. It will be our pleasure to provide this assistance

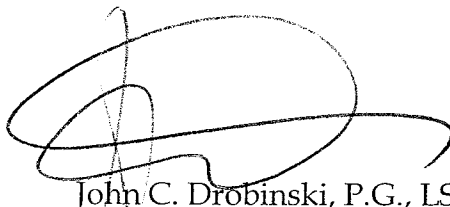
and see the applications through to completion. If you wish to visit the site please call and arrange a time through Mr. John Drobinski LSP, PG of ERM at 617-267-8377 as access to the property is restricted. Also, we have attached permit applications from other agencies that the Army Corps is to be copied on.

If you have any questions please do not hesitate to contact any of the project team members.

Sincerely,



Rachel B. Leary
Project Engineer



John C. Drobinski, P.G., LSP
Principal-in-Charge

rbf

enclosures: Application for Department of the Army Permit (5)
Regulatory Permit Application for Wetland Impact Permit
Applications for the Oils and Hazardous Materials
Remediation on the Former Raytheon Property, Wayland,
Massachusetts (5)
Environmental Notification Form and Cover Letter (5)

**APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT
(33 CFR 325)**

OMB APPROVAL NO. 0710-003

The reporting burden for this collection of information is estimated to average 5 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Service Directorate of Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302; and to the Office of Management and Budget, Paperwork Reduction Project (0710-003), Washington, DC 20503. Please DO NOT RETURN your form to either of those addresses. Completed applications must be submitted to the District Engineer having jurisdiction over the location of the proposed activity.

PRIVACY ACT STATEMENT

Authority: 33 USC 401, Section 10; 1413, Section 404. Principal Purpose: These laws require permits authorizing activities in, or affecting, navigable waters of the United States; the discharge of dredged or fill material into waters of the United States, and the transportation of dredged material for the purpose of dumping it into ocean waters. Routine uses: Information provided on this form will be used in evaluating the application for a permit. Disclosure: Disclosure of requested information is voluntary. If information is not provided, however, the permit application cannot be processed nor can a permit be issued.

One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and instructions) and be submitted to the District Engineer having jurisdiction over the proposed activity. An application that is not completed in full will be returned.

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. DATE APPLICATION COMPLETED
--------------------	----------------------	------------------	-------------------------------

(ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANT'S NAME	8. AUTHORIZED AGENT'S NAME & TITLE (an agent is not required)
6. APPLICANT'S ADDRESS Raytheon Corporation, Inc.	9. AGENT'S ADDRESS Environmental Resources Management
7. APPLICANT'S PHONE NUMBERS WITH AREA CODE a. Residence b. Business (978) 440-1813	10. AGENT'S PHONE NUMBERS WITH AREA CODE a. Residence b. Business (617) 267-8377

11. **STATEMENT OF AUTHORIZATION**

I hereby authorize John C. Drobinski to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.

Edwin B. Meder APPLICANT'S SIGNATURE 1/13/03 DATE

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME OR TITLE (see instructions) Former Raytheon Facility	
13. NAME OF WATERBODY, IF KNOWN (if applicable) Sudbury River	14. PROJECT STREET ADDRESS (if applicable) 430 Boston Post Road Wayland, Massachusetts
15. LOCATION OF PROJECT Middlesex COUNTY Massachusetts STATE	
16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (see instructions) Latitude: 42° 22' Longitude: 71° 22'	
17. DIRECTIONS TO THE SITE Rt 128/Rt. 95 N to Rt. 20 W. Rt. 20 W is Boston Post Road. Travel approximately 2 miles from the Weston/Wayland border. The site is currently an office building, a Polaroid sign is out front.	

3. NATURE OF ACTIVITY (Description of project, include all features)

See Attached Description

19. PROJECT PURPOSE (Describe the reason or purpose of the project, see instructions)

See Attached Description

USE BLOCKS 20-22 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

20. REASON(S) FOR DISCHARGE

21. TYPE(S) OF MATERIAL BEING DISCHARGED AND THE AMOUNT OF EACH TYPE IN CUBIC YARDS

22. SURFACE AREA IN ACRES OF WETLANDS OR OTHER WATERS FILLED (see instructions)

23. IS ANY PORTION OF THE WORK ALREADY COMPLETE? YES NO IF YES, DESCRIBE THE WORK

24. ADDRESSES OF ADJOINING PROPERTY OWNERS, LESSEES, ETC. WHOSE PROPERTY ADJOINS THE WATERBODY (If more than can be entered here, please attach a supplemental list)

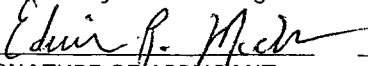

See Attached List

25. LIST OF OTHER CERTIFICATIONS OR APPROVALS/DENIALS RECEIVED FROM OTHER FEDERAL, STATE, OR LOCAL AGENCIES FOR WORK DESCRIBED IN THIS APPLICATION

AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
--------	----------------	-----------------------	--------------	---------------	-------------

* Would include but is not restricted to zoning, building and flood plain permits.

26. Application is hereby made for a permit or permits to authorize the work described in this application. I certify that the information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

	
_____ SIGNATURE OF APPLICANT	_____ SIGNATURE OF AGENT
<u>1/31/03</u> DATE	<u>2/07/03</u> DATE

The application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, factitious, or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

Block 18 and 19

Nature of Activity and Project Purpose

PROJECT BACKGROUND

A remedial action plan has been prepared for an 83-acre property formerly occupied by the Raytheon Company, owned by the Wayland Business Center and an adjacent parcel privately owned. Contamination levels of oil and/or hazardous materials have been documented in soil and groundwater on these properties, "the property". The proposed work will remedy an environmental hazard and restore the degraded ecological functions and will have public benefits to human health and the environment. The property is located at 430 Boston Post Road in Wayland, Massachusetts and is adjacent to various conservation lands. Soil and groundwater within the wetland and portions of the site are contaminated with levels of oil and/or hazardous materials. The contaminated area is a wetland system that is part of the Sudbury River floodplain. Target cleanup goals for the wetland soil and sediments and groundwater are based on eliminating a condition of "significant risk" to human health and environment. Wetland soil and sediment removal is estimated to encompass 3,700 cubic yards over approximately 1.5-acres to achieve a permanent solution. Groundwater will require abatement to Massachusetts Maximum Contaminant Levels for drinking water to achieve a permanent solution.

The project has not received any prior Chapter 91 licenses and it does not appear that any have been required. There has not been any historic dredging, filling, or impoundments within the wetlands on the site. Average Annual High Water is estimated to be 110 feet NGVD. The area of excavation lies water ward of the wetland limits and landward of the high water mark elevation.

WETLAND SOIL AND SEDIMENT REMEDIATION

Excavating the remedial area and disposing of the contaminated soil off-site will complete the remediation of the wetland soil/sediments. Excavation will include 3,700 cubic yards over approximately 1.5-acres, down to a depth of approximately 1.5-feet below natural ground. The applicant will implement the appropriate engineering and management components to complete the remediation in the most environmentally safe manner. All necessary regulatory permits will be obtained prior to initiating the work. The excavated soil will be segregated into stockpiles specific to the waste characteristics and disposal facility receiving requirements. The waste soil will be dewatered and the

Block 18 and 19 (continued)

Nature of Activity and Project Purpose

resulting water treated on or off-site. The waste soil will be transported and disposed of to the appropriate licensed facility. A restoration plan for the excavated wetland area will be implemented and is discussed below.

The applicant will implement best management practices to avoid and minimize adverse impacts to the wetland and adjacent Sudbury River. Many of the specifics are in the design process and will likely be contingent upon agency and public input. The applicant will begin the Massachusetts Environmental Policy Act process and will welcome constructive input.

WETLAND RESTORATION

The floodplain wetlands that are excavated and any incidental wetland impacts will be restored to a viable ecological community. The excavated area will be re-soiled using clean fill that is of a comparable soil structure and composition. The area will be graded to pre-construction contours. The vegetation will include seeding and planting with wetland species of similar composition as the adjacent deep emergent marsh. An ecological characterization was completed to document the vegetative composition and serve as a pre-construction baseline. This information will be used for preparing the replanting plan. Monitoring will include documenting the vegetative composition and water levels with the remediation area on at least a seasonal basis. Monitoring will also focus on any additional re-vegetation activities that may be needed. The presence of invasive species will be monitored and maintenance activities initiated to control these species within the remediation area. Summary reports of the monitoring will be compiled on an annual basis.

For Additional Information please refer to the report prepared by Woodlot Alternatives, Inc and Environmental Resources Management, Inc.

Block 24

List of Abutting Property Owners

Parcel- ID	2 nd Parcel ID (if any)	Site Address	Property Owner listed	Mailing Address 1	Mailing Address 2
22-010		444 Boston Post Rd.	Devens H. Hamlen	87 Old Conn Path	Wayland, MA 01778
22-011		Boston Post Rd.	United States Fish and Wildlife Services	300 Westgate Center Dr.	Hadley, MA 01035
22-001		Boston Post Rd.	Wayland Disposal Area c/o Town of Wayland	41 Cochituate Rd.	Wayland, MA 01778
23-016	23-015	376 Boston Post Rd.	Russell's Greenhouses and Garden Centers Inc.	397 Boston Post Rd.	Wayland, MA 01778
23-017		372 Boston Post Rd.	Timothy Skehan Trustee c/o 372 Boston Post Road Trust	397 Boston Post Rd.	Wayland, MA 01778
23-019	23-018	364 Boston Post Rd.	Grace Osmond	3 Old Farm Circle	Wayland, MA 01778
23-020		356 Boston Post Rd.	Concord Oil Company, Inc.	147 Lowell Rd	Concord, MA 01742
23-022	23-021	334 Boston Post Rd.	David R. Starmer	25 Orchard Rd.	Natick, MA 01760
23-023		326 Boston Post Rd.	S-Bank Wayland LLC c/o Tramwell Crow Co.	P.O. Box 14115	Reading, PA 19612-4115
23-026		300 Boston Post Rd.	Francis J Poisson Trustee c/o Wayland Power Realty Trust	300 Boston Post Rd	Wayland, MA 01778
23-033		262 Boston Post Rd.	Trustee of Ann Webster	100 Walden St.	Concord, MA 01742
23-050		6 Old Sudbury Rd.	Courtney Purrington	6 Old Sudbury Rd.	Wayland, MA 01778
23-051		10 Old Sudbury Rd.	Edmund C. Rice	10 Old Sudbury Rd.	Wayland, MA 01778
23-052		400 Boston Post Rd.	Wayland Business Center Holdings LLC c/o Congress Groups Ventures Inc.	1 Memorial Drive	Cambridge, MA 02142
23-052A		Boston Post Rd.	Conservation Commission c/o Town of Wayland	41 Cochituate Rd.	Wayland, MA 01778
23-053		39 Old Sudbury Rd.	Marian Draper	39 Old Sudbury Rd.	Wayland, MA 01778
23-054		37 Old Sudbury Rd.	Thomas J. Mccarthy	37 Old Sudbury Rd.	Wayland, MA 01778
23-057	23-056	Old Sudbury Rd.	Sudbury Valley Trustees Inc.	2 Clock Tower Place, Suite 500	Maynard, MA 01754
23-058		15 Old Sudbury Rd.	Cynthia D. Oliver	15 Old Sudbury Rd.	Wayland, MA 01778
23-058A		19 Old Sudbury Rd.	Whitney E. Harris	19 Old Sudbury Rd.	Wayland, MA 01778
23-060		11 Old Sudbury Rd.	Carol N. Harakles	11 Old Sudbury Rd.	Wayland, MA 01778
23-061		7 Old Sudbury Rd.	Roger C. Nuss	7 Old Sudbury Rd.	Wayland, MA 01778
23-48		1 Cochituate Rd.	Wayland Depot Inc.	1 Cochituate Rd.	Wayland, MA 01778
23-75		40 Bow Rd.	Roderick Brant	40 Bow Rd.	Wayland, MA 01778