

Raytheon

Command, Control,
Communication and
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1001 Boston Post Road
Marlborough, Massachusetts
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June 21, 2002

Mr. Brian Monahan
Conservation Commission/Wayland Town Hall
41 Cochituate Road
Wayland, MA 01778

Re: Revised Scope of Work Submitted to DEP
*Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts (the "Site")
RTN 3-13574, Permit No. 133939*

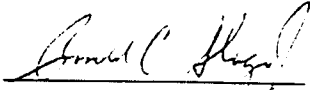
Dear Mr. Brian Monahan:

Two months ago, Raytheon submitted for public comment a draft scope of work outlining additional soil and groundwater assessment activities at the site of its environmental remediation project in Wayland. Based on feedback from the Public Involvement Plan (PIP) participants, Raytheon has revised the scope of work to include assessment activities beyond what was originally proposed, and has submitted it to the Massachusetts Department of Environmental Protection (DEP). These activities include sampling for additional chemical constituents in wetland soil and groundwater, and the installation of five additional monitoring wells. A summary of the revised scope of work is enclosed and a copy of it is available at the Wayland Public Library and the Wayland Board of Health. A more detailed response to public comments will be submitted separately.

Raytheon is committed to assessing and cleaning up the Site to ensure that a level of no significant risk to public safety, health and the environment is achieved. Upon completion of the additional assessment activities, the results will be shared with the PIP at a public meeting and documented in a Phase II/III Addendum Report. If additional site characterization activities are required, a subsequent SOW will be developed and submitted to the PIP.

Raytheon looks forward to your continued participation in this important project.

Sincerely,



Ronald C. Slager, Jr.
Raytheon Company
Restoration Program Manager

Enclosure

cc: Mr. John Drobinski, ERM, 399 Boylston Street, 6th Floor, Boston, MA 02116
Massachusetts DEP, Northeast Regional Office –Wilmington, MA 01887
Wayland Board of Health (PIP Repository)
Wayland Public Library (PIP Repository)
PIP Participants

Summary Scope of Work

(430 Boston Post Road, Wayland, MA (the "Site"), RTN 3-13574)

The Scope of Work submitted to the Massachusetts Department of Environmental Protection (DEP) outlines additional assessment activities that Raytheon will conduct at the site of its environmental remediation project in Wayland. These assessment activities will help address Public Involvement Plan (PIP) concerns and assist with the development of a groundwater clean up method.

The following is a summary of the SOW:

- ◆ Advance up to 24 soil borings and install up to 24 groundwater monitoring wells (eight well triplets).
 - ◆ Up to three locations along the northern portion of the property.
 - ◆ Up to three locations along the eastern portion of the property
 - ◆ Up to three locations on the Russell's Garden Center property.
 - ◆ The well triplets will be composed of a shallow, intermediate and deep well.
 - ◆ Groundwater and select soil samples will be collected and analyzed for volatile organic compounds (VOCs) by a certified Massachusetts laboratory.
- ◆ Install up to six groundwater monitoring wells (three well couplets) along the northwestern property boundary within the wetlands.
 - ◆ The well couplets will be composed of a shallow and deep well.
 - ◆ Select soil samples will be collected and analyzed for VOCs by a certified Massachusetts laboratory.
 - ◆ Groundwater samples will be collected and analyzed for dissolved priority pollutant metals (PP13), polychlorinated biphenals (PCBs), petroleum aromatic hydrocarbons (PAHs), and VOCs by a certified Massachusetts laboratory.
- ◆ To better understand the subsurface soil characteristics and support a groundwater clean up method, a cone penetrometer (a sensor probe) will be used to identify different soil layers, i.e., silt, clay, sand.
- ◆ Advance up to 27 soil borings and install up to 27 groundwater monitoring wells (nine well triplets) in the south/southwestern portion of the property.
 - ◆ The well triplets will be composed of a shallow, intermediate and deep well.
 - ◆ Select soil samples will be collected and analyzed for VOCs and soil oxidant demand by a certified Massachusetts laboratory.
 - ◆ Groundwater samples will be collected and analyzed for VOCs by a certified Massachusetts laboratory.
- ◆ Advance up to six soil borings around the main building on the property.
 - ◆ Single groundwater monitoring wells will be installed in each boring.
 - ◆ Groundwater and select soil samples will be collected and analyzed for VOCs by a certified Massachusetts laboratory.
- ◆ Obtain up to six wetland soil samples from within the stunted growth area.

- ◆ Wetland soil samples will be analyzed for VOCs, dioxins, dibenzofurans, cyanide, boron and fluoride by a certified Massachusetts laboratory.
- ◆ Advance up to 12 soil borings along the bank adjacent to the eastern wetland boundary.
 - ◆ Borings will be advanced to the water table or the silt layer, whichever is encountered first.
 - ◆ Select soil samples will be collected and analyzed for VOCs, PAHs, PCBs, PP13 by a certified Massachusetts laboratory.

In response to public comments received during the PIP process, Raytheon Company will be conducting additional soil and groundwater assessment activities beyond what was proposed above.

The following is a summary of additional activities included in the SOW:

- ◆ Install intermediate and deep overburden wells adjacent to the existing shallow monitoring well, MW-TP-3.
- ◆ Install a monitoring well triplet, consisting of shallow, intermediate and deep well adjacent to the existing water table well, MW-1. The shallow well of this triplet will replace MW-1.
- ◆ Conduct a comprehensive groundwater monitoring round, which will involve gauging groundwater elevations and collecting groundwater samples at all existing and newly installed wells at the Site. An evaluation of groundwater flow and gradients will be conducted and documented.
- ◆ Collect groundwater samples from four DEP wells (DEP-19S, DEP-19M, DEP-20 and DEP-21) for analysis of VOCs by EPA Method 8260 to confirm DEP's preliminary data.
- ◆ Conduct an initial groundwater sampling event from the MW-TP-3 triplet, MW-43S/43D and the MW-33 well cluster for analysis of the following :
 - ◆ Physiologically available cyanide by the MA DEP Method
 - ◆ Boron by EPA Method 200.7/6010B
 - ◆ Fluoride by IC – EPA Method 300.0
 - ◆ Phosphorous by EPA Method 365.2
 - ◆ Ammonia by EPA Method 350.1
 - ◆ Nitrate by EPA Method 353.2
 - ◆ Chloride by EPA Method 325.2
 - ◆ Aldehydes by EPA Method 8315
 - ◆ Alcohols by ASTM D 3695
 - ◆ Glycols by ASTM E 202
 - ◆ Polychlorinated dibenzo-p-dioxins (PCDDs) and Polychlorinated dibenzo-p-dibenzofurans (PCDFs)– EPA Methods 1613b and 8290
 - ◆ PCBs by EPA Method 8082
 - ◆ PAHs by EPA Method 8270C
- ◆ Raytheon will analyze the sediment/soil samples for the following additional parameters:

- ◆ Phosphorous (phosphates) by EPA Method 365.2
 - ◆ Nitrate by EPA Method 353.2
 - ◆ Chloride by EPA Method 325.2
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- ◆ Raytheon will submit two composite sediment/soil samples for appropriate disposal characterization parameters.
 - ◆ Raytheon will work with the Town's consultant in evaluating the need for additional wetland soils background samples.
 - ◆ Additional site characterization activities may be deemed necessary following completion of the proposed Scope of Work. If additional assessment activities are required, a subsequent SOW will be developed and submitted to the PIP.

The results of the assessment activities will be shared with the PIP and documented in a Phase II/III Addendum Report and at a PIP meeting. A copy of the Revised SOW is available for your review at the Wayland Public Library and the Wayland Board of Health.