

Public Involvement Plan Meeting May 7, 2003

*Former Raytheon Facility
430 Boston Post Road, Wayland, Massachusetts*

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Purpose of Meeting

- Status update of groundwater in “Northern Area” of the Site
- Scope of Work
- Status update of wetland assessment activities.
- Upcoming Reports
- Question and Answer Period

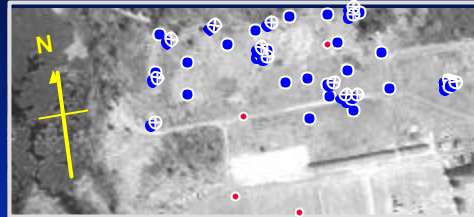


Site Area Map

**Status update of
groundwater in “Northern
Area” of the Site**

Northern Area of Site

- Installed 29 monitoring wells in Dec. 2002/Jan. 2003
- Confirm previous Waterloo Profiler data
- Installed shallow, intermediate, deep and bedrock wells
- Establish groundwater flow
- Sampled groundwater for chlorinated solvents, metals, polychlorinated biphenyls (PCBs), glycols, aldehydes, alcohols, polychlorinated dibenzo-p-dioxins (PCDDs), polychlorinated dibenzo-p-dibenzofurans (PCDFs), and inorganics

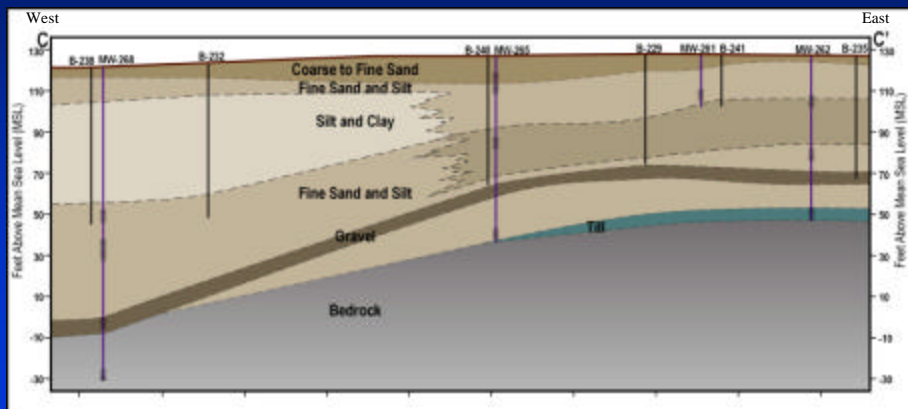


Legend

- ⊕ Newly Installed Monitoring Well Location
- Waterloo Profiler Boring Location
- Existing Monitoring Well Location

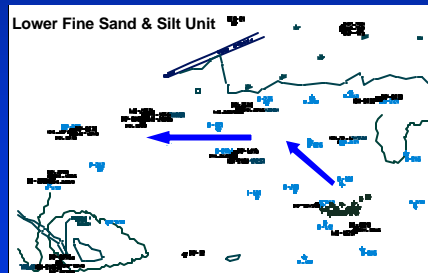
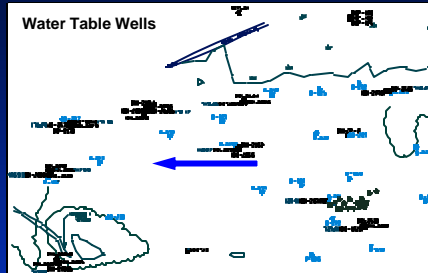
Geology of Northern Area

- The soil above bedrock dips and thickens to the west, with generally coarser materials to the east and finer materials to the west.



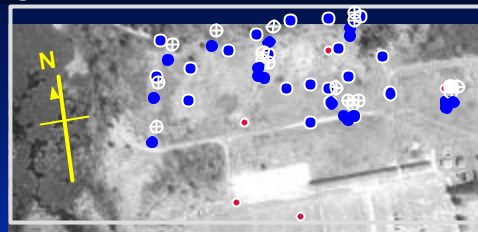
Groundwater Flow in Northern Area

- The January 2003 data suggest that groundwater flows to the west.
- Comprehensive gauging will be conducted periodically:
 - April
 - July
 - December



Groundwater Quality in Northern Area

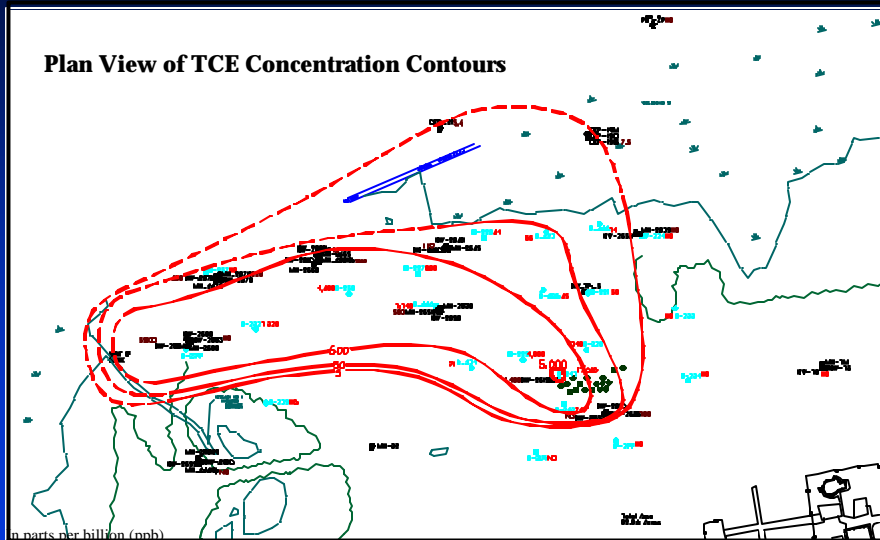
- Sampled new and existing groundwater monitoring wells in January 2003.
- Confirmed Waterloo Profiler data
- Only tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cDCE), and vinyl chloride (VC) were detected at concentrations above reportable levels
- Separate release tracking number (RTN #3-22408) issued by the DEP for the Northern Area.



Legend

- ⊕ Newly Installed Monitoring Well Location
- Waterloo Profiler Boring Location
- Existing Monitoring Well Location

Northern Area of the Site

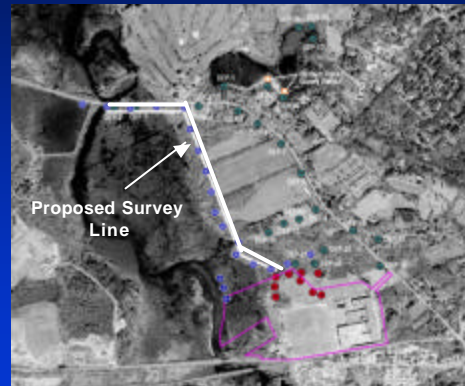


**Upcoming Groundwater
Assessment**

Draft Scope of Work

Geophysical Survey

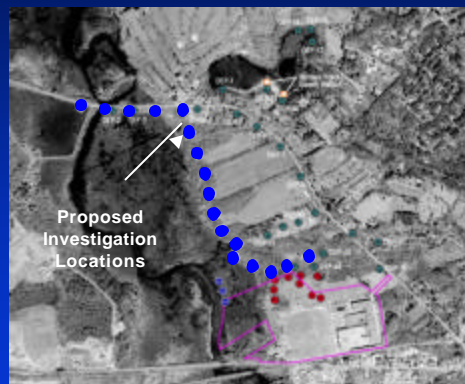
- Purpose of surface geophysics is to gather data necessary to design the proposed Waterloo Profiler investigation.
- Conduct approximately 5,000 linear feet to estimate depth to top of bedrock.



Draft Scope of Work

Waterloo Profiler Investigation

- Evaluate the potential for chlorinated solvent impacts to groundwater between the Northern Area and the Baldwin Pond Well field
- Install 17 Waterloo Profiler borings to bedrock
- Groundwater samples will be collected during installation of the borings and analyzed for chlorinated solvents



Draft Scope of Work

Monitoring Well Installation

- To further delineate the nature and extent of chlorinated solvent impacts to groundwater in the Northern Area.
- Two monitoring wells will be installed at each location, one within the lower fine sand and silt unit at the depth of the highest PID reading, if encountered, and at the top of till or bedrock
- Groundwater samples will be collected and analyzed for chlorinated solvents.



Status Update of Wetland Assessment Activities

August 2002 Wetland Soil/Sediment Investigations

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- **Six Wetland Soil/Sediment Analyzed for:**

- VOCs, PCDDs, PCDFs, cyanide, boron, fluoride, ammonia, phosphorous, nitrate, chloride, aldehydes, alcohols, glycols
- Conducted wetland soil/sediment analyses for waste characterization
- Only PCDDs/PCDFs (dioxins) detected above screening levels within the remediation area
- Dioxins coincident with PCBs

March 2003 Wetland Sampling

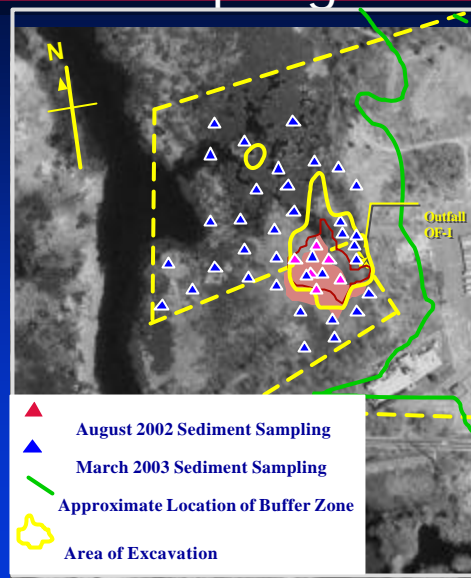
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- **PCDDs/PCDFs sampling at 36 locations**

- 44 PCDDs/PCDFs analyzed
- Detected below screening levels outside of Remedial Area

- **Additional sediment characterization**

- to address public concern
- PCBs at 12 locations
 - PCBs < 1 part per million
- Metals at 7 locations
 - Detected below clean-up goals
- PAHs at 7 locations
 - Detected below clean-up goals, except for one location



March 2003 Wetland Sampling



Upcoming Reports

Upcoming Reports/Documents

- **Northern Area Investigation (RTN#3 -22408)**
 - Public comments on Draft SOW due on May 14, 2003:
 - Edwin P. Madera
 - Raytheon Company
 - Mail Stop 1880
 - 528 Boston Post Road
 - Sudbury, MA 01776
 - Phase I – Initial Site Investigation Report, Scope of Work and Tier Classification – Dec. 2003

Upcoming Reports/Documents

- **Executive Office of Environmental Affairs (EOEA)**
 - Environmental Notification Form (ENF) Certificate issued
 - Single EIR to be submitted May 2003
- **U.S. Army Corps of Engineers**
 - Public Comments due May 26th
- **Environmental Protection Agency**
 - Risk Based Disposal Approval Application - review in progress
- **MA Department of Environmental Protection (DEP)**
 - 401 Water Quality permit review in progress
- **Wayland Conservation Commission**
 - Notice of Intent (NOI) to be submitted May 2003

Q & A

Northern Area of the Site

Conceptual Site Model - Biodegradation

