

Site Status Update

June 20, 2007

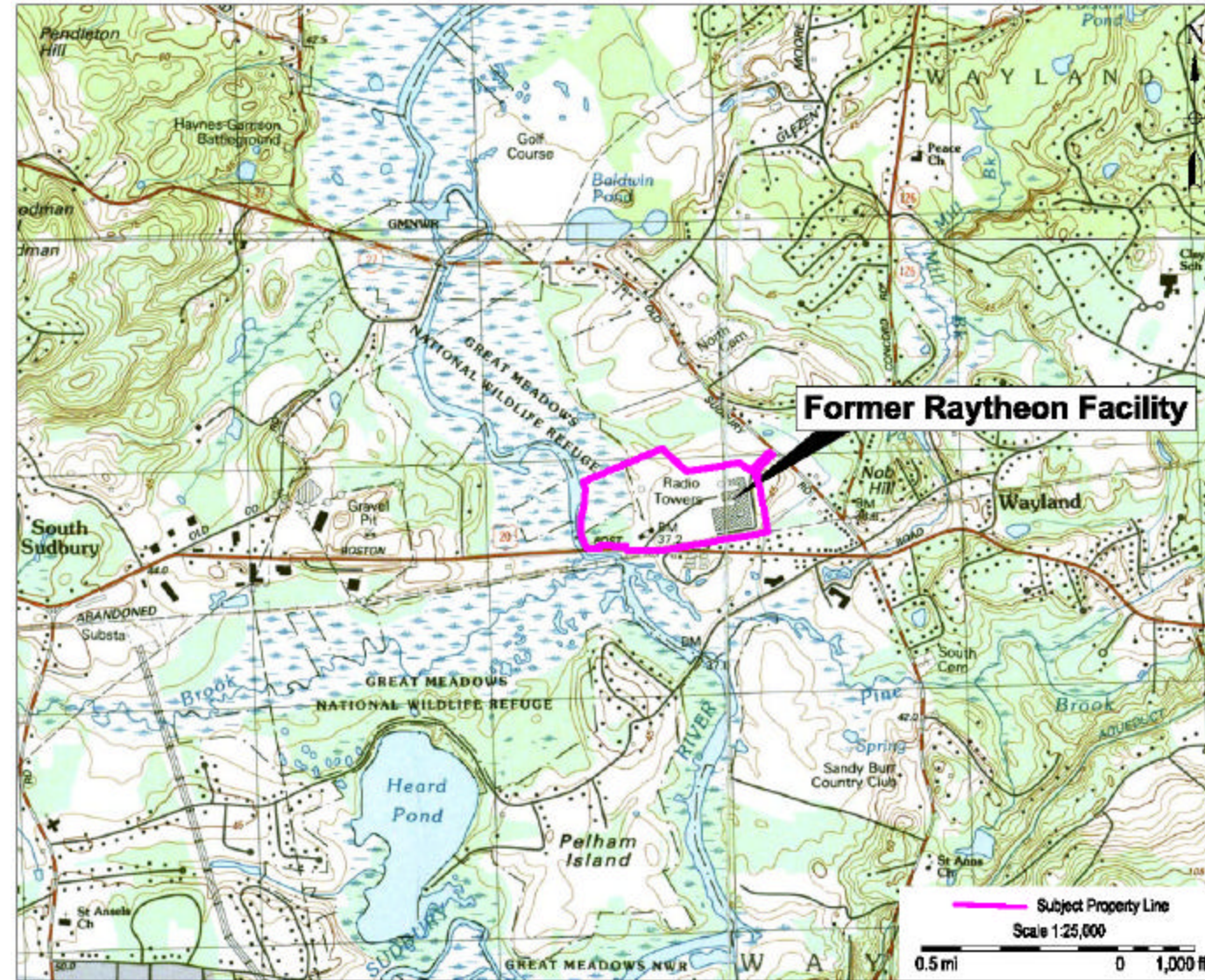
**Former Raytheon Facility
Wayland, Massachusetts**

Presented by:
Louis “Chip” Burkhardt
Raytheon Company

Update on Site Activities

- Review of Phase IV Remedy Implementation Plan (RIP)
- Draft Downgradient Property Status Opinion
- Draft Response Action Outcome
- Update on Site Activities
 - Site-wide groundwater gauging and sampling
 - Southern Area ISCO
 - Wetland Monitoring
- PIP Schedule

Question and Answer Period



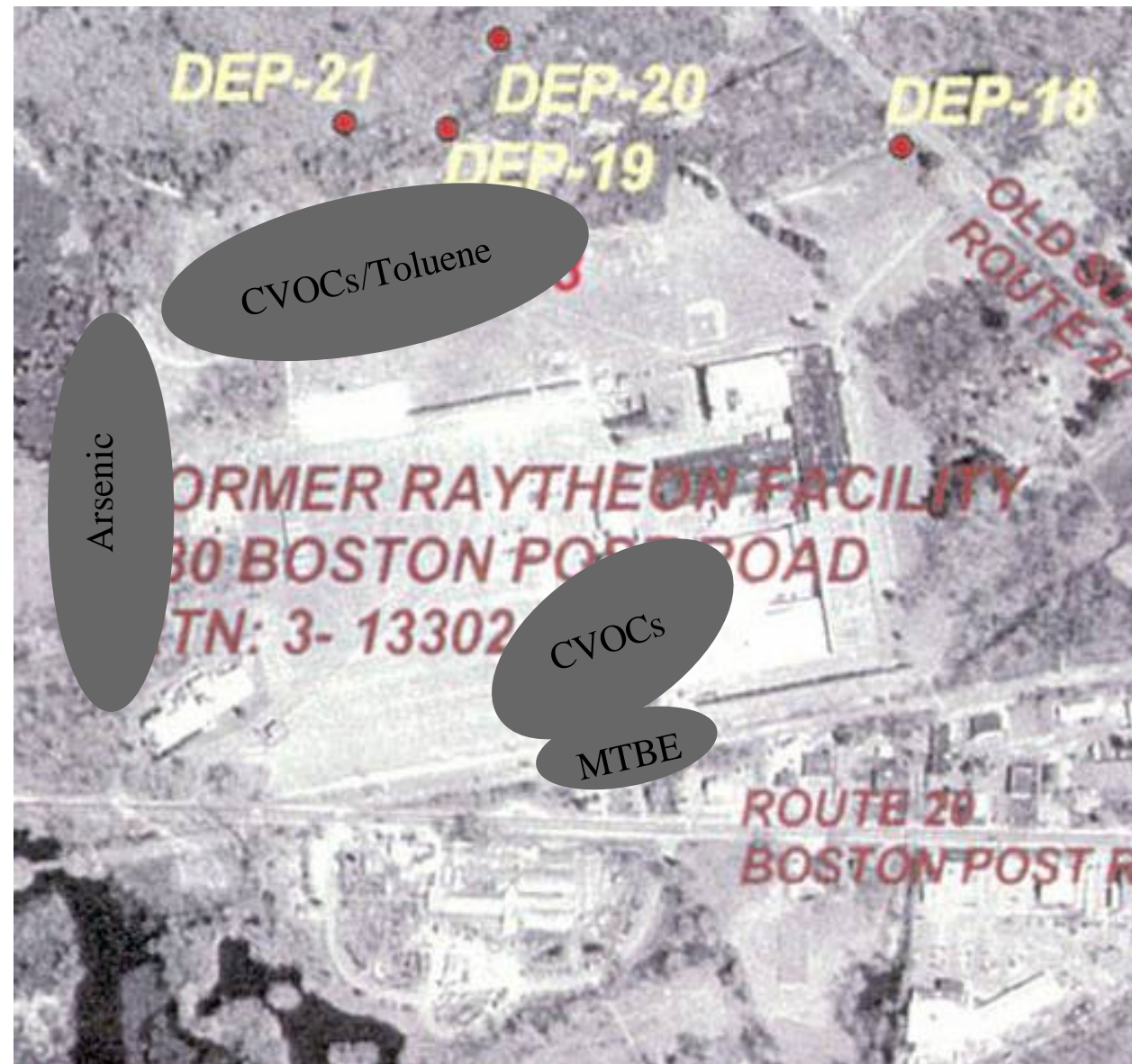


Review of Phase IV Remedy Implementation Plan

Raytheon



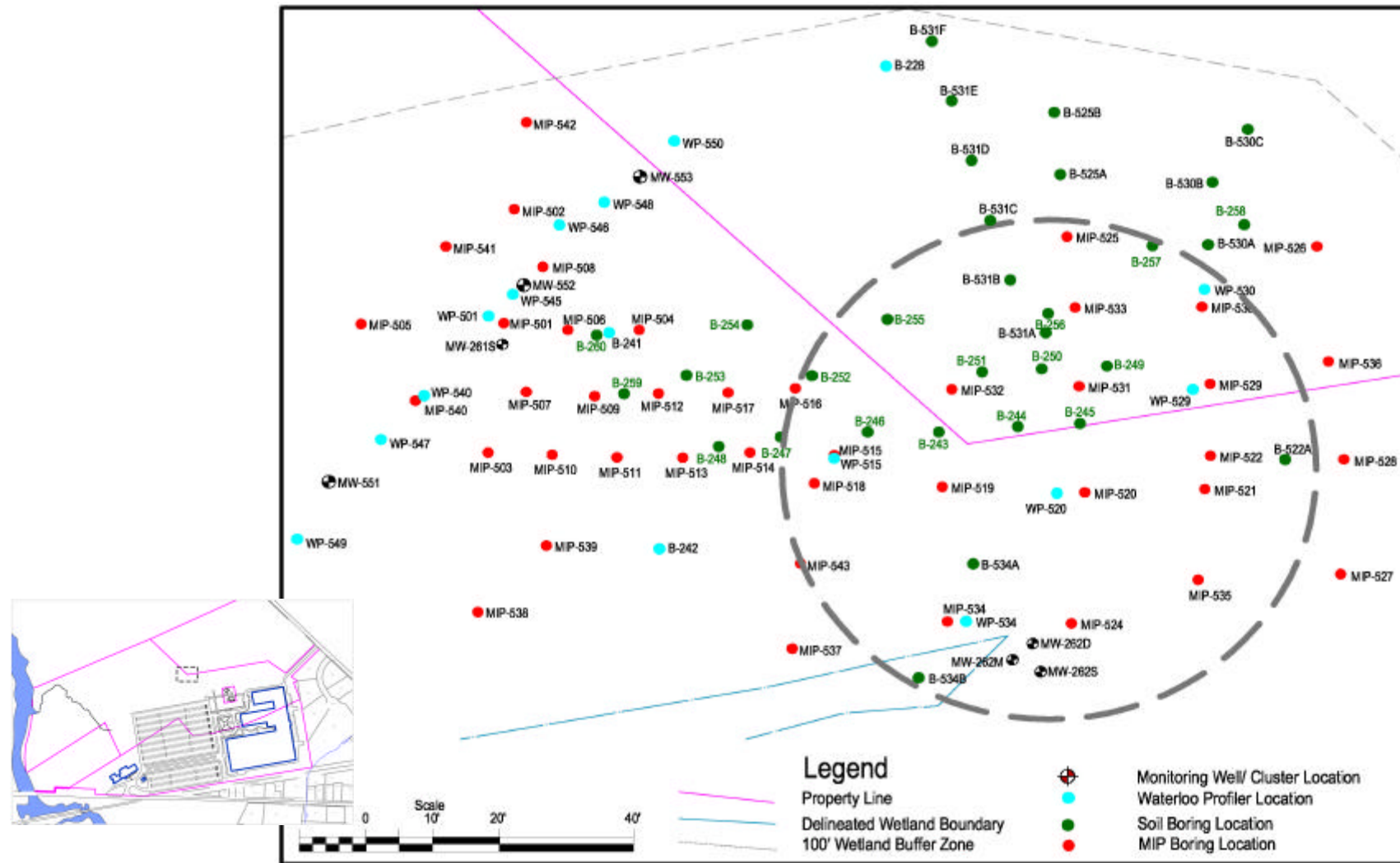
Compounds of Concern



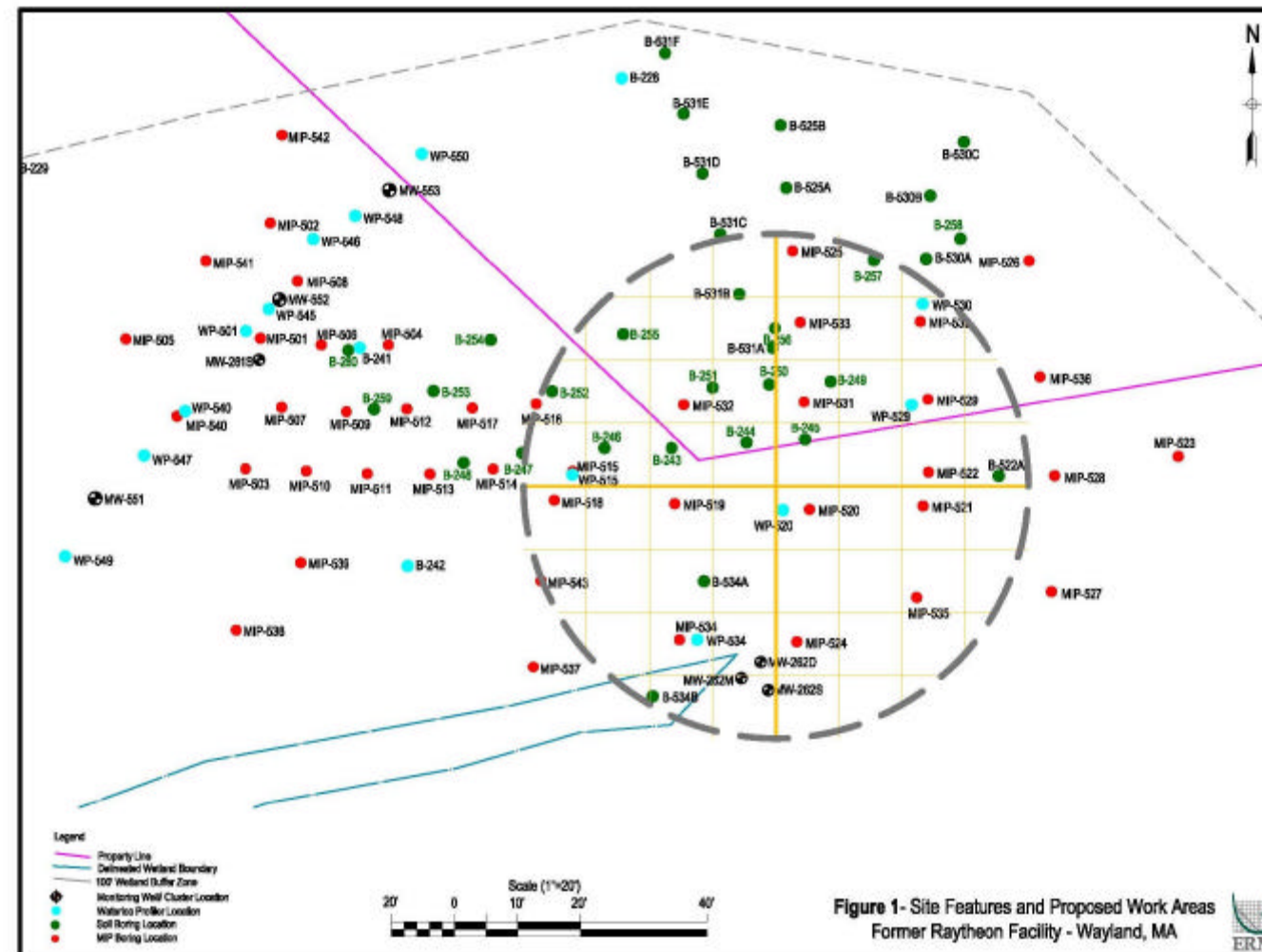
Compounds of concern encountered:

- Chlorinated Volatile Organic Compounds (CVOCs)
- Toluene
- Arsenic (Draft RAO)
- Methyl Tertiary Butyl Ether (Draft DPS)

Proposed Remedial Area

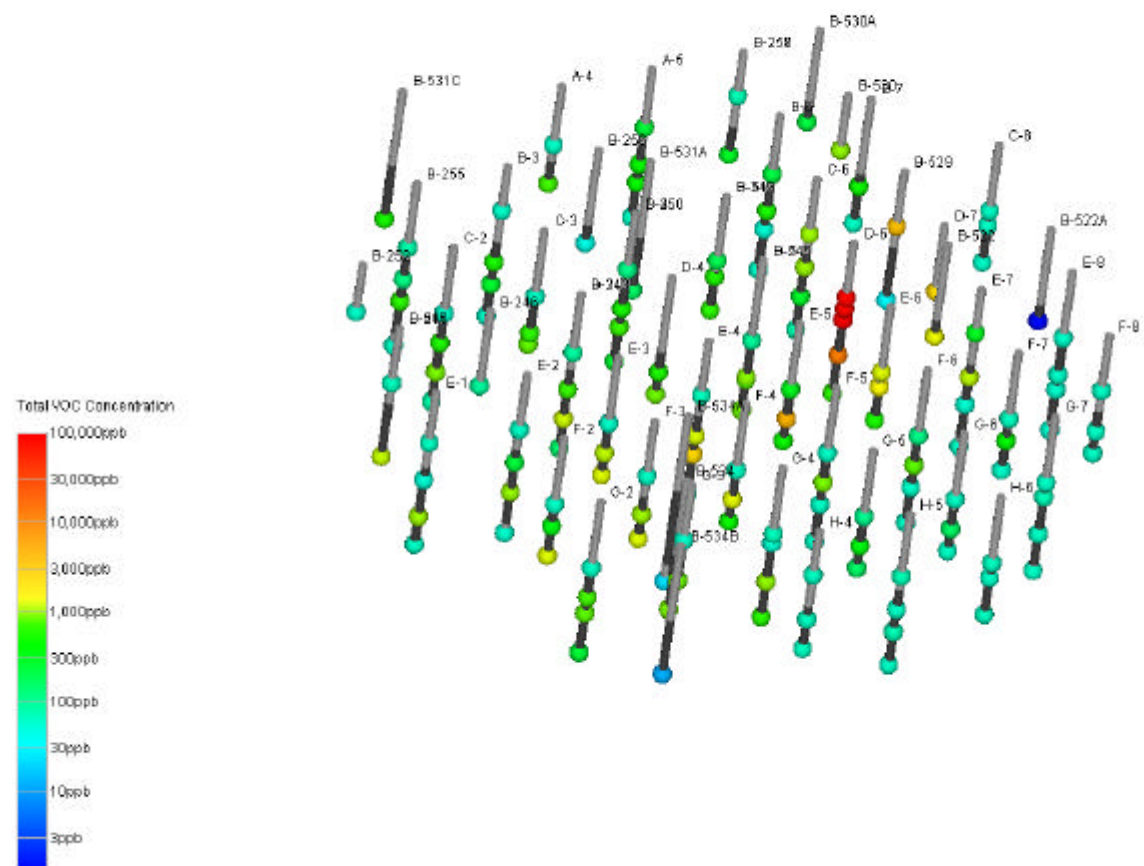


Northern Area Excavation Soil Investigation – April 2007



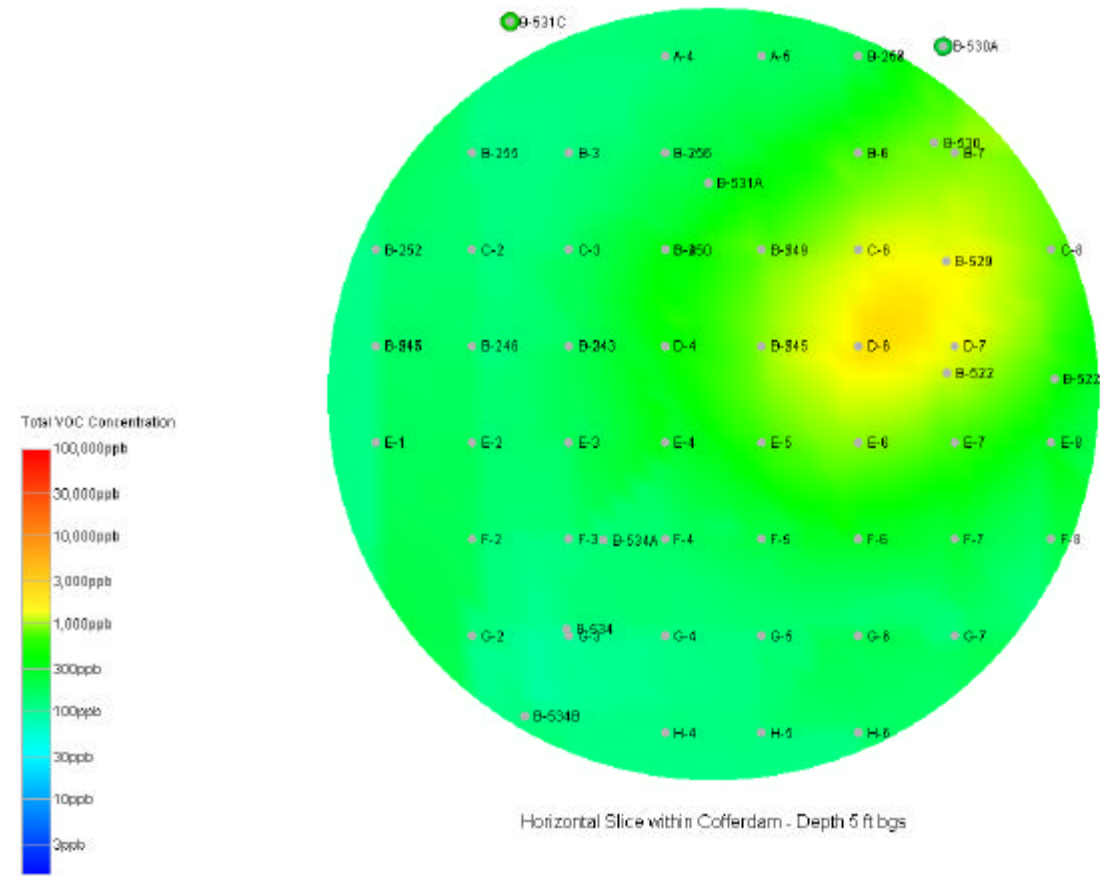
Northern Area Excavation April Data Set

Raytheon Wayland
April 2007 Investigations



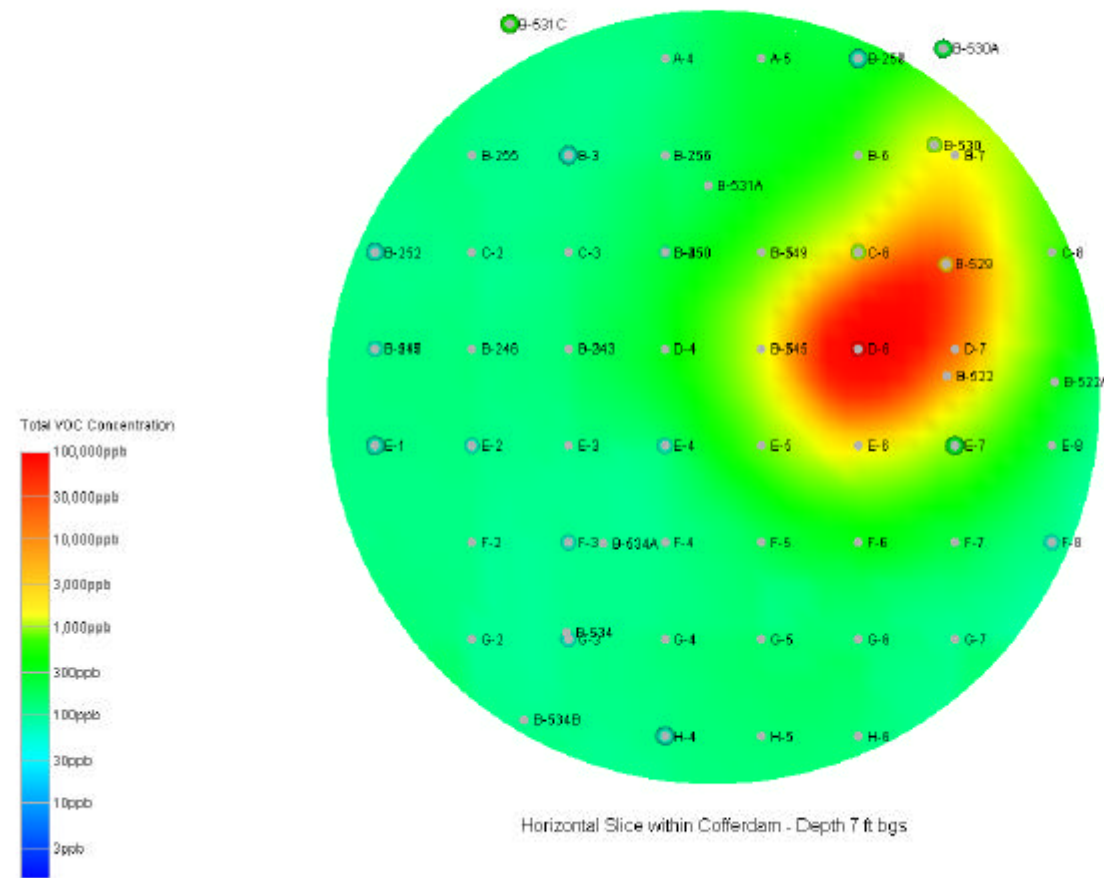
Northern Area Excavation Plan View – 5 ft Below Ground Surface

Raytheon Wayland
April 2007 Investigations



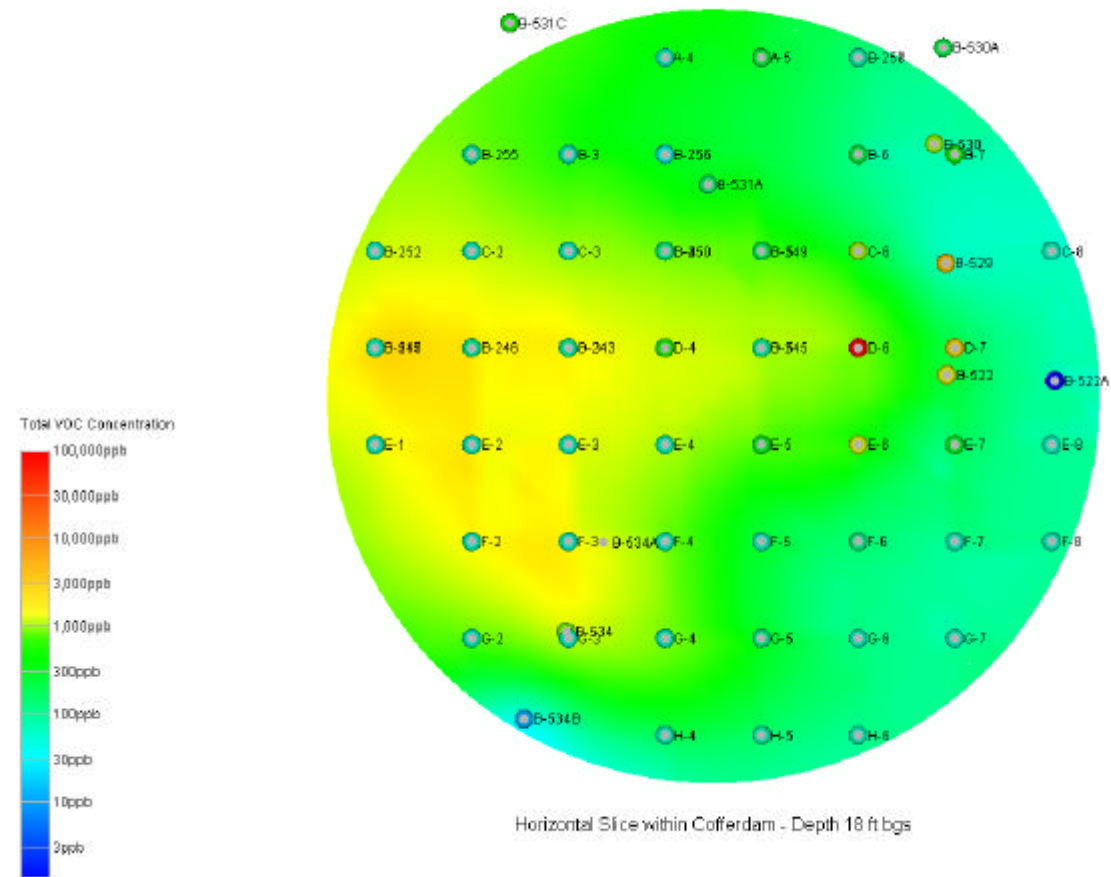
Northern Area Excavation Plan View – 7 ft Below Ground Surface

Raytheon Wayland
April 2007 Investigations



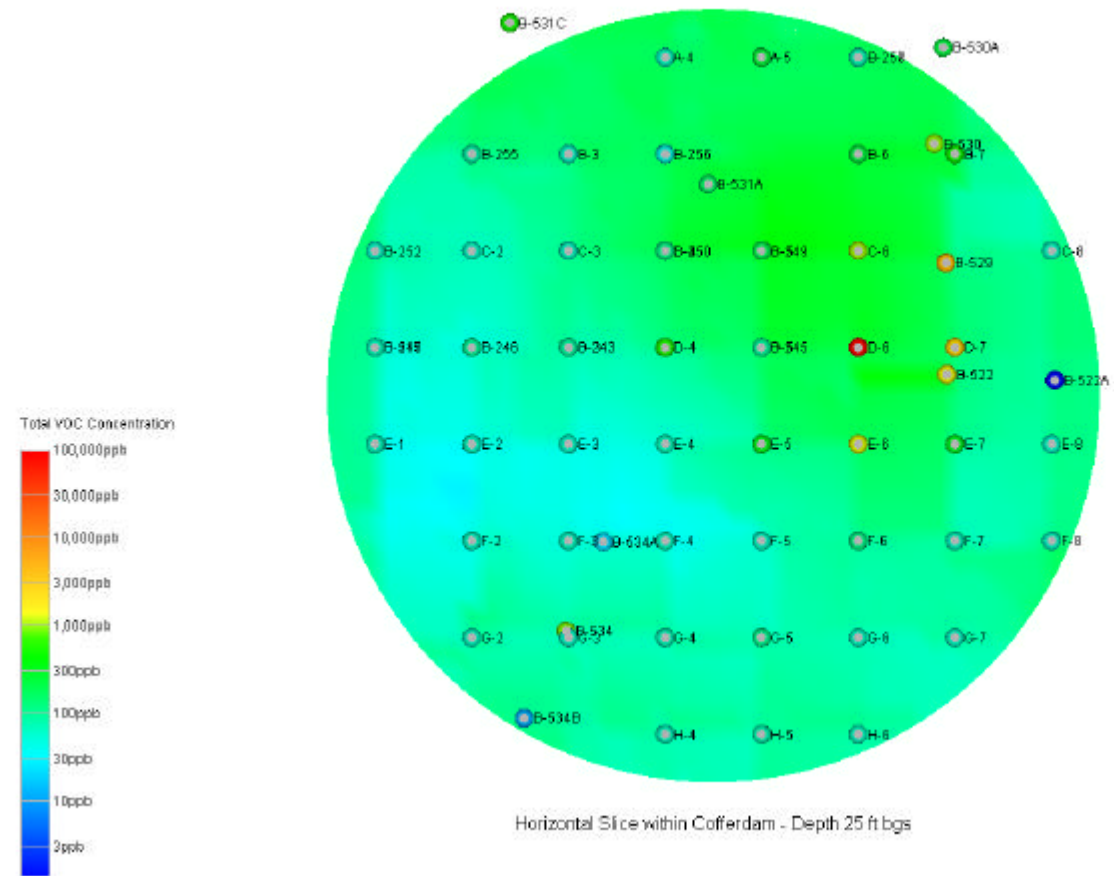
Northern Area Excavation Plan View – 18 ft Below Ground Surface

Raytheon Wayland
April 2007 Investigations

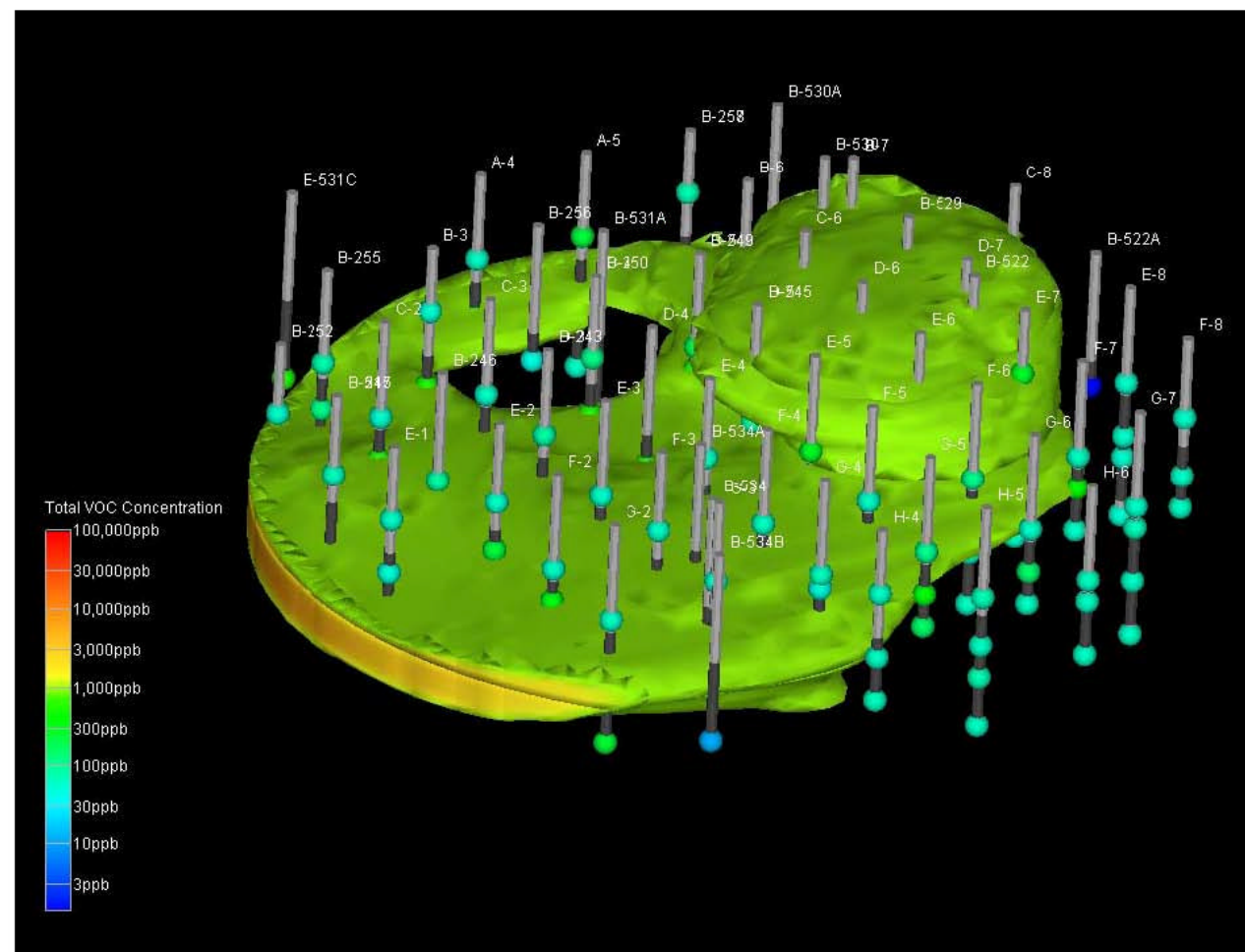


Northern Area Excavation Plan View – 25 ft Below Ground Surface

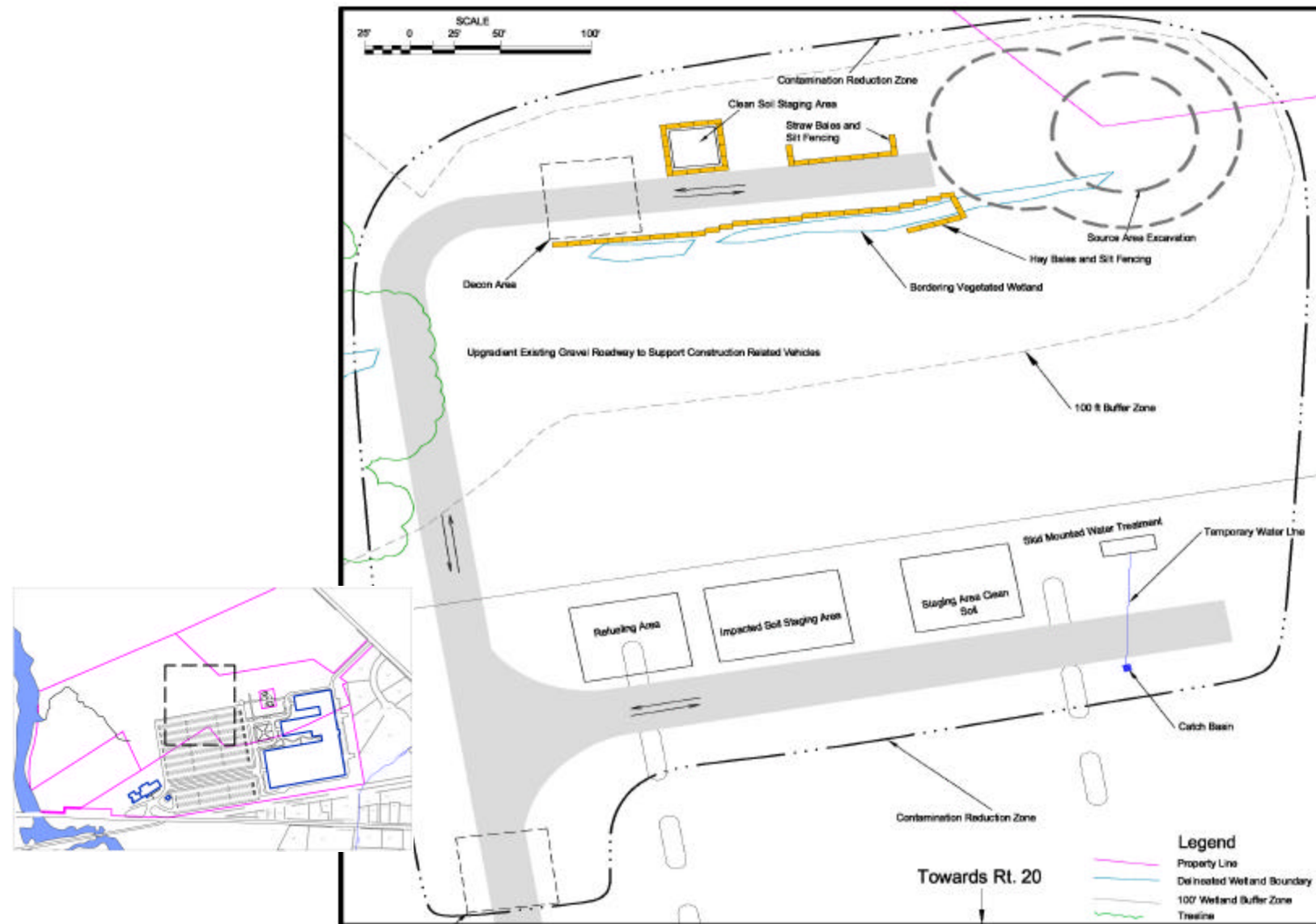
Raytheon Wayland
April 2007 Investigations



Northern Area Excavation - Contaminant Volume Greater Than 1,000 ppb Total VOCs



Construction Layout – Proposed Work Zone



Soil Remediation

Excavation of Source Area

- Installation of 80-foot diameter coffer dam
- Dewatering and treatment
- Removal of impacted soil to a depth of 20 – 25 feet
- Segregation of “clean” and impacted soils
- Disposal of impacted soils off site
- Backfill and installation of infiltration gallery
- Restoration of source area to existing conditions

Northern Area Remediation Status

- **Mobilization of equipment for the Northern Area source area soil excavation will commence on June 25, 2007.**
- **Activities will be completed in Fall 2007.**

Groundwater Remediation

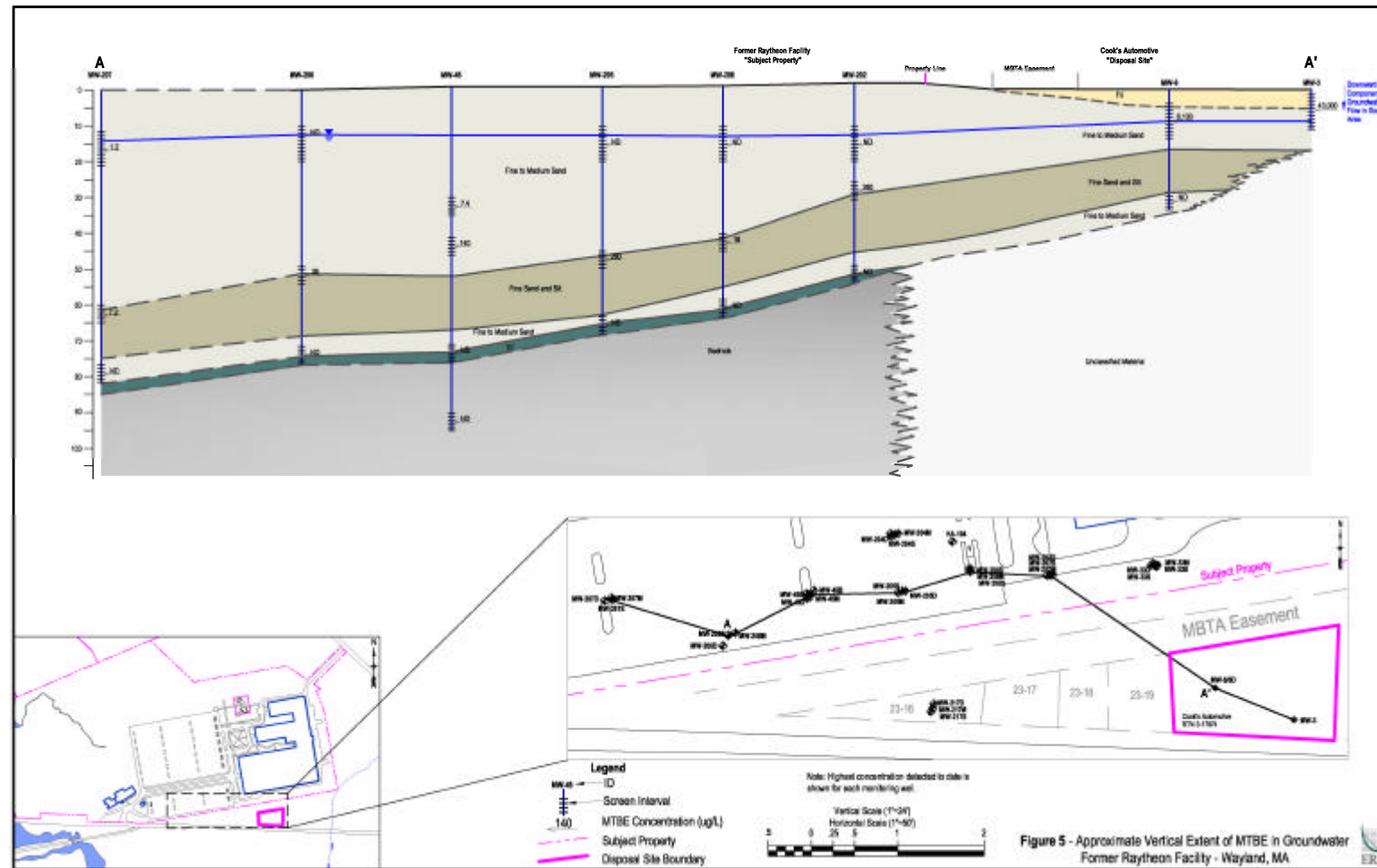
- **Monitor groundwater concentrations for one year to allow sub-surface conditions to equilibrate**
- **Implement bioremediation to treat residual plume, if necessary**
- **Detailed injection plan will be developed based on new groundwater conditions**

Draft Downgradient Property Status

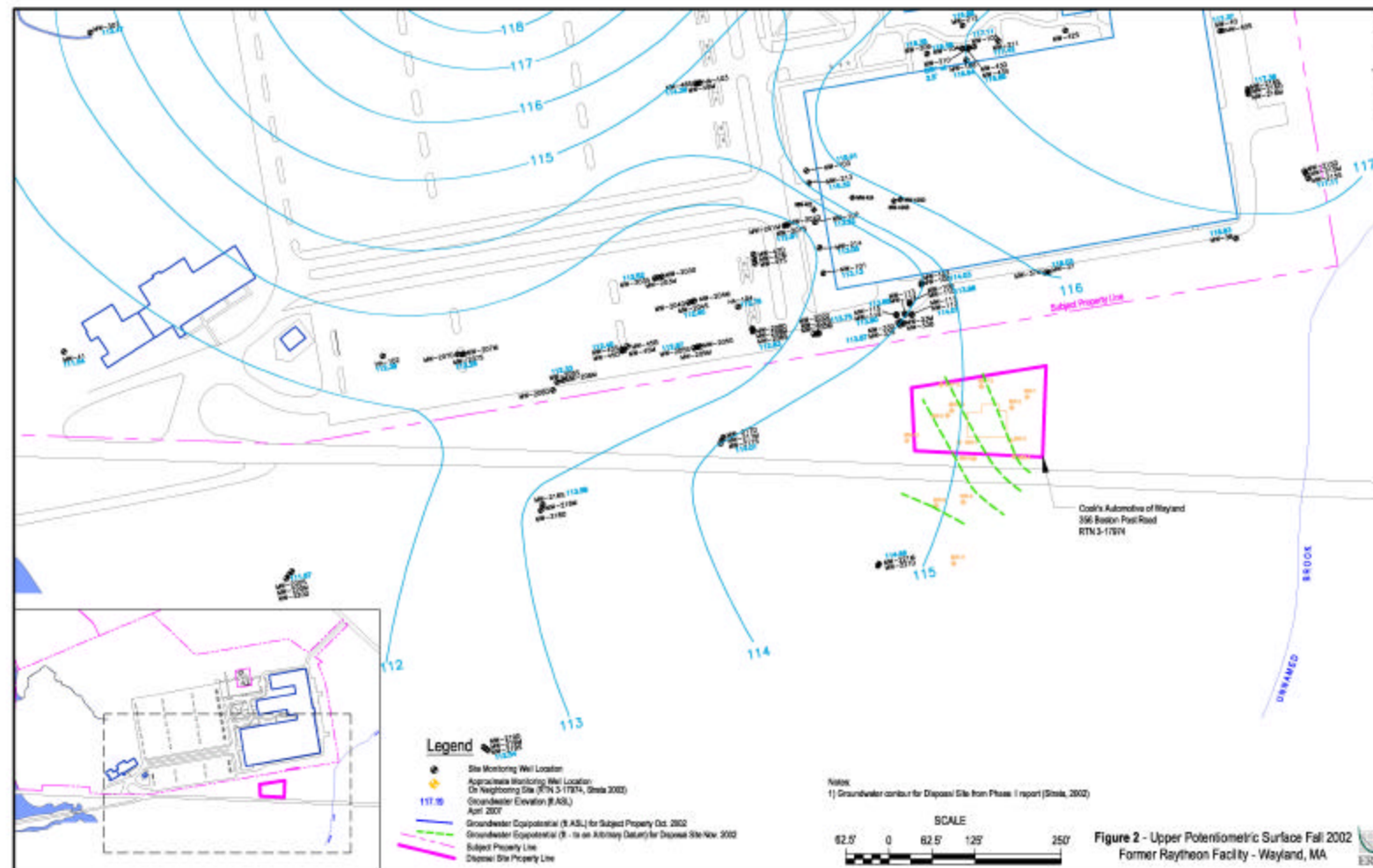
Draft Downgradient Property Status

- Draft Downgradient Property Status (DPS) submitted for public comment on June 20, 2007
- The data presented in this DPS Opinion indicate that the source of MTBE detected in groundwater at the Site is the Cook's Automotive Disposal Site located at 365 Boston Post Road (RTN 3-17974).
- Advective groundwater transport has resulted in migration of MTBE from the Disposal Site onto the Subject Property.
- In accordance with 310 CMR 40.0180, ERM concludes that the Subject Property meets the MCP criteria for asserting DPS.

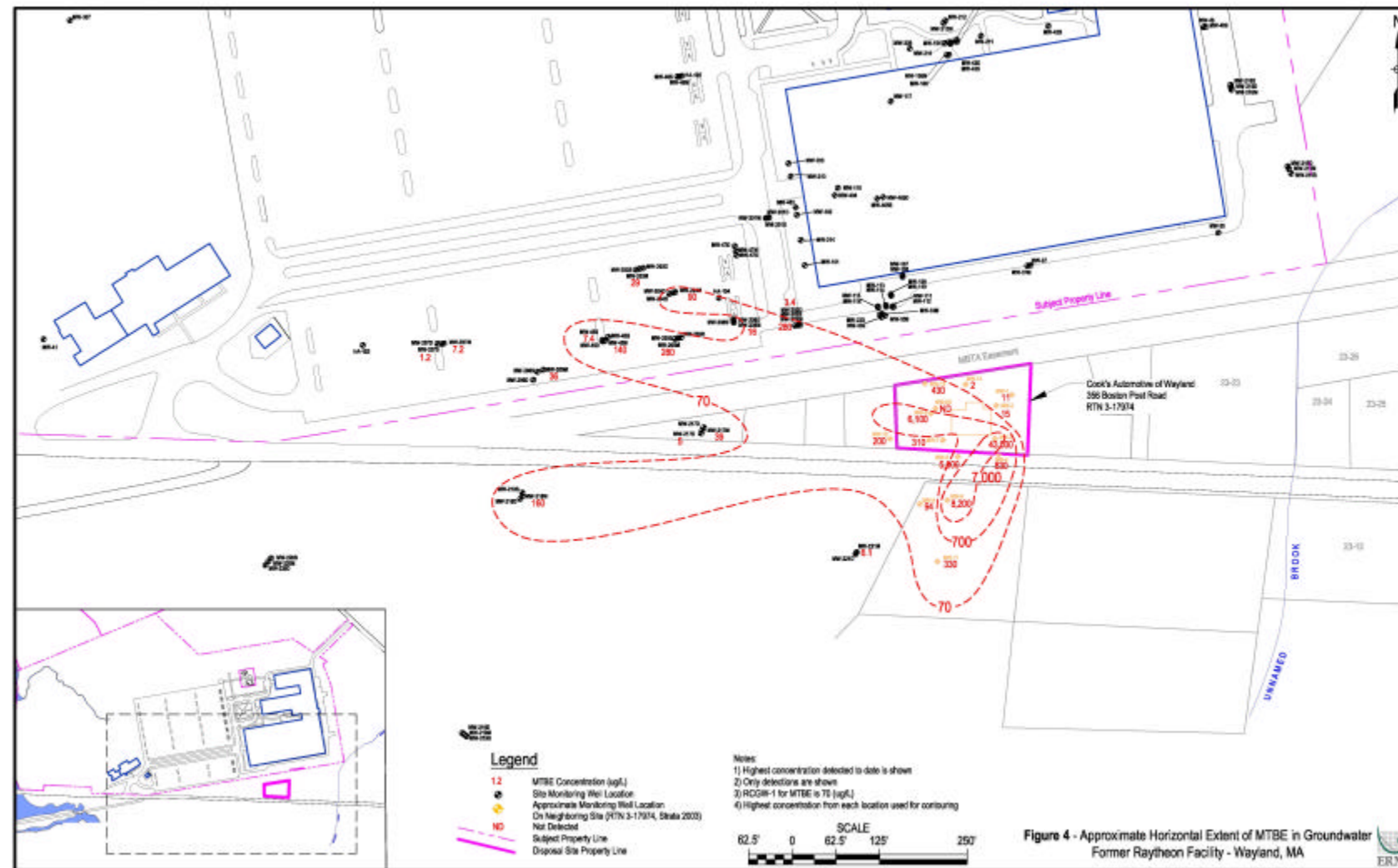
Draft Downgradient Property Status



Draft Downgradient Property Status



Draft Downgradient Property Status

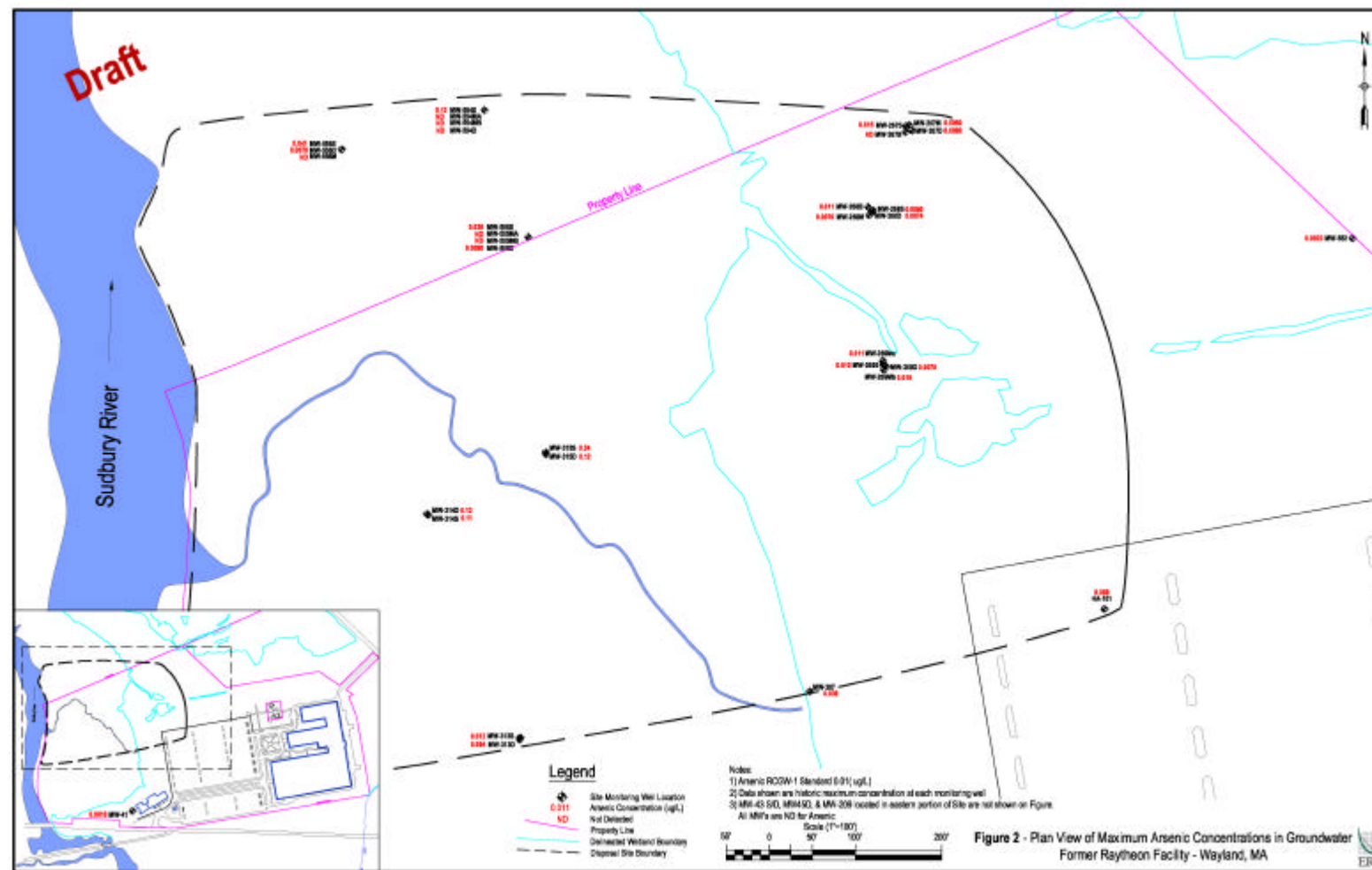


Draft Response Action Outcome

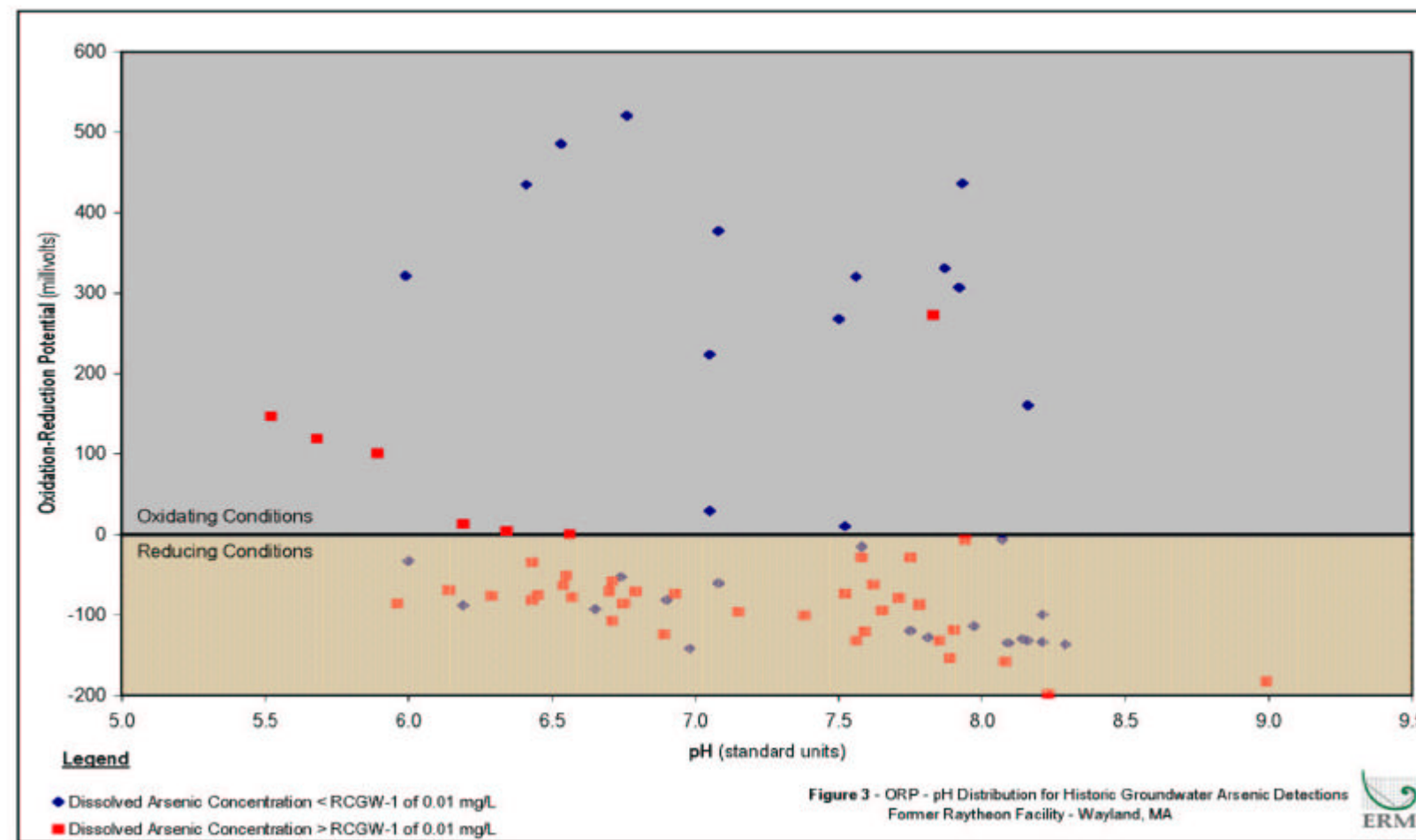
Draft Response Action Outcome

- Draft Class B-1 Response Action Outcome (RAO) submitted for public comment on June 20, 2007
- The data presented in this Class B-1 RAO indicate that naturally occurring arsenic present in soil has been mobilized as a result of the natural reducing conditions in the wetlands bordering the Sudbury River.
- The presence of arsenic in groundwater in the western portion of the Site represents a background condition.
- In accordance with 310 CMR 40.1000, the Site meets the MCP criteria for achieving a Class B-1 RAO.

Draft Response Action Outcome



Draft Response Action Outcome



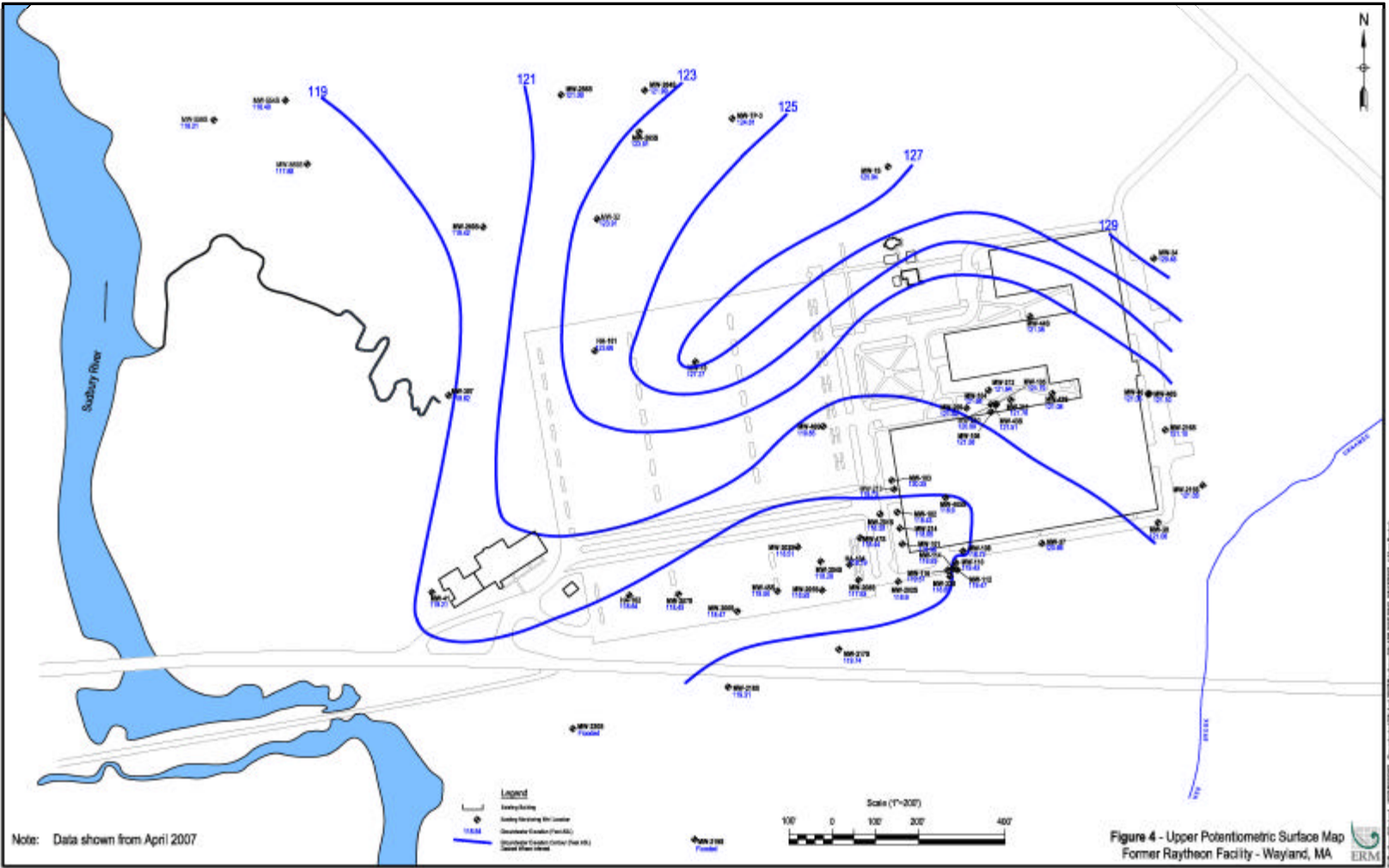
Update on Site Activities: Groundwater Gauging and Monitoring / ISCO Activities

Groundwater Gauging

Calendar Year 2007 Groundwater Gauging

- Site-wide gauging rounds conducted in April; planned for July and October.
 - Water level measured in 164 monitoring wells.

Groundwater Contour Map Upper Potentiometric Surface



Groundwater Monitoring

Calendar Year 2007 Groundwater Monitoring

- Monitoring rounds conducted in February and April.
 - Samples from 106 wells analyzed for VOCs, Dissolved Sodium, Sodium Permanganate, and/or color.
- Monitoring data summarized in the May 2007 Remedy Operation Status Submittal.
- Monitoring events planned for July and October 2007. These events will be summarized in the upcoming November 2007 Remedy Operation Status Submittal.

Update on Site Activities Wetland Monitoring

Wetland Monitoring

Calendar Year 2007 Wetland Monitoring

- Wetland monitoring in May delayed due to high water level in the Sudbury River.
- Evaluating options for mitigation of invasive species.
- Wetland monitoring planned for August, and October.
 - Information collected to gauge success of vegetation, soils, and hydrology.
 - Fourth year of the five-year monitoring program required by the US Army Corps of Engineers, Wayland Conservation Commission, and MA DEP.
- Annual Summary report to be submitted to the MA DEP in December 2007.

PIP Schedule

- Draft DPS and RAO have been submitted for public comment on June 19, 2007
 - Public comments are due on July 23, 2007 to:
 - Louis "Chip" Burkhardt
 - Raytheon Company
 - Mail Stop 2-2124-01
 - 880 Technology Park Drive
 - Billerica, MA 01821
- A summary of the comments received and a response to those comments will be prepared
- Documents will be made available at the information repositories (Public Library and Board of Health) and web site
- Notice of Availability of the documents have been sent to the PIP mailing list

Q & A