

Raytheon

Information Session

Site Status Update

November 15, 2006

Former Raytheon Facility
Wayland, Massachusetts

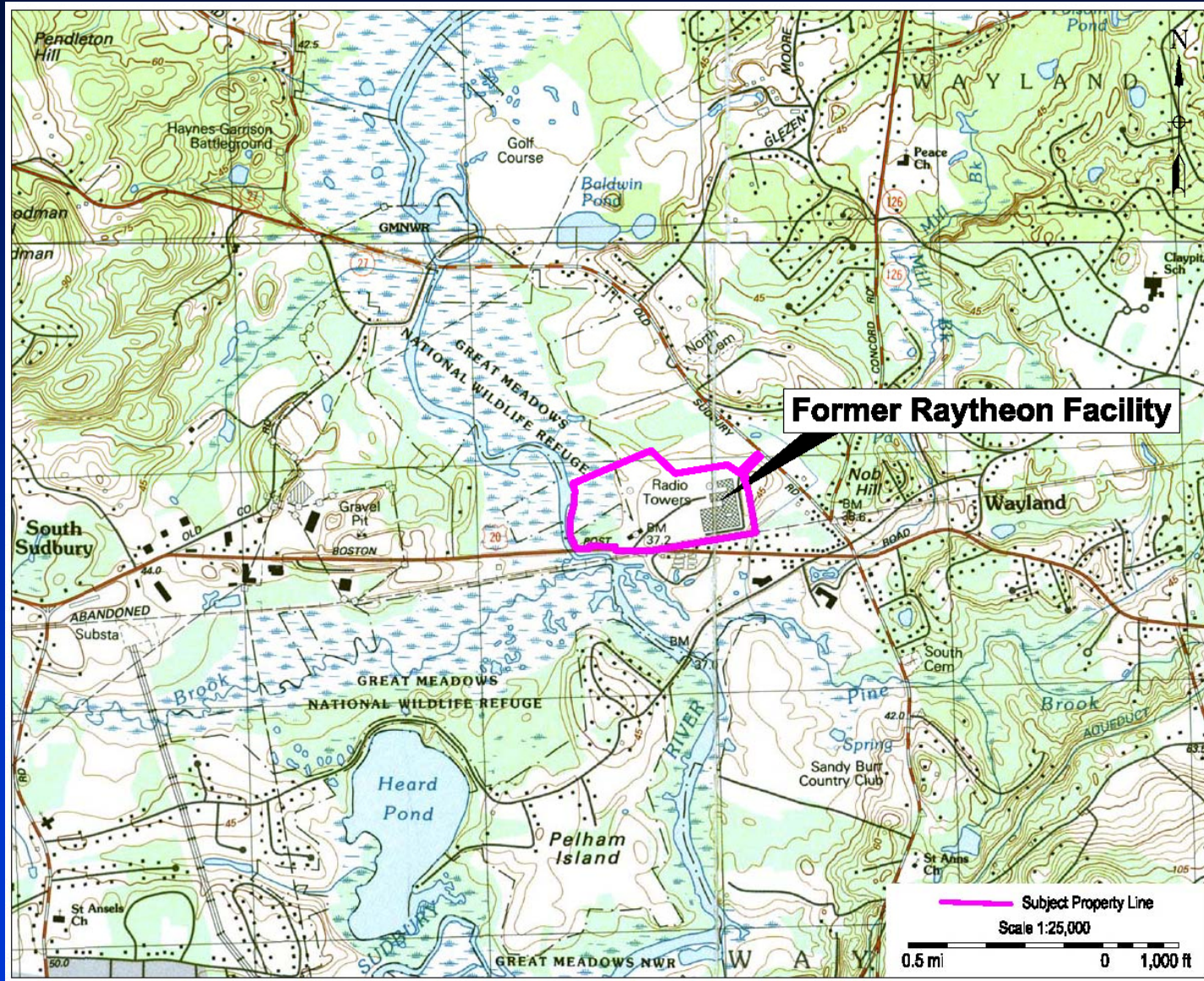
Presented by:
Louis “Chip” Burkhardt
Raytheon Company

Purpose of Meeting

Update on Site Activities

- Review of Phase IV Remedy Implementation Plan (RIP)
- Northern Area Remediation Status
- Groundwater Gauging and Monitoring
- Wetland Monitoring

Question and Answer Period



Locus Map



Wetlands Remediation
Conducted

Proposed Northern Area
Source Area Excavation

Groundwater Remediation
Conducted



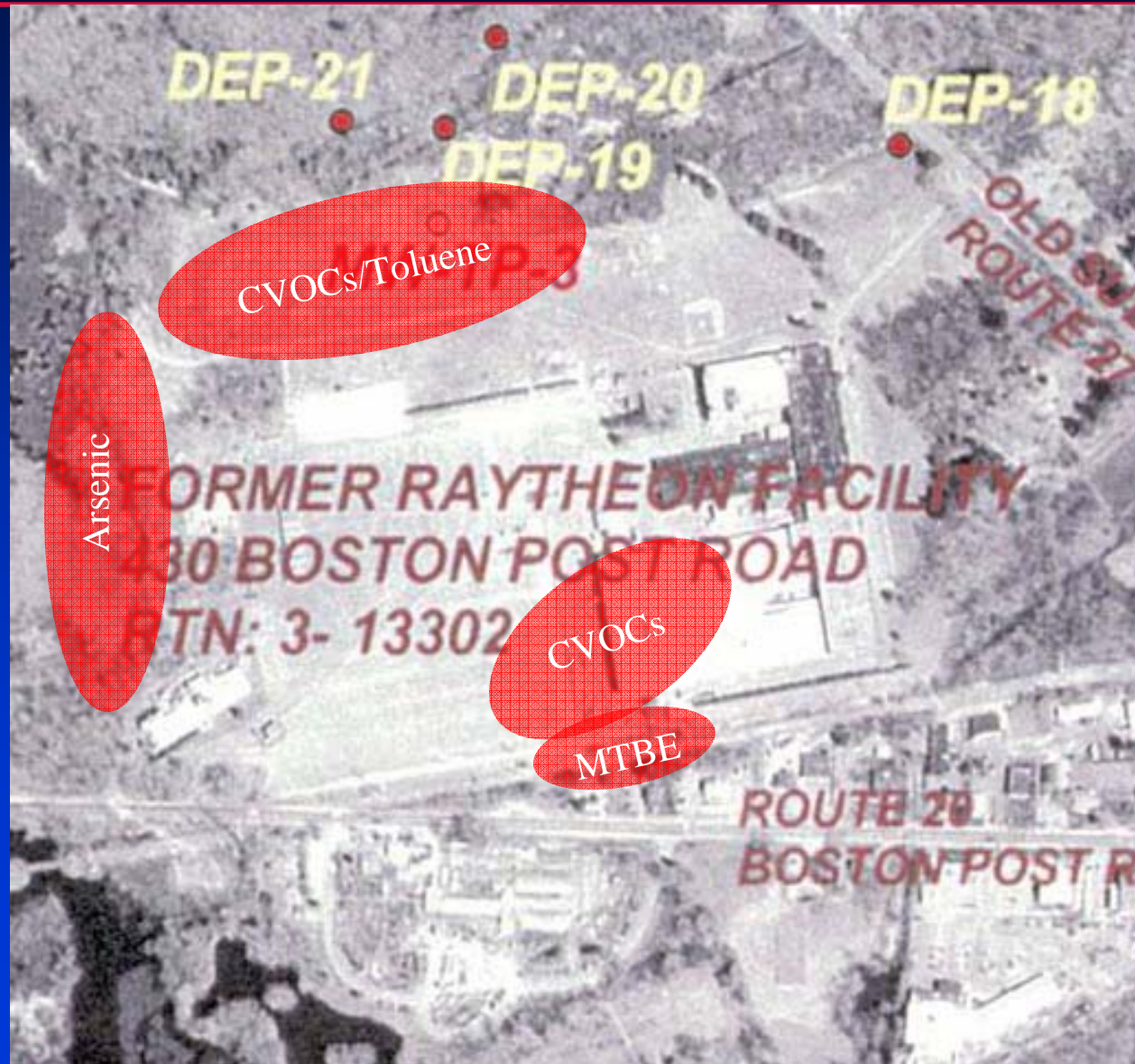
Review of Phase IV Remedy Implementation Plan

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Area of Proposed
Soil Excavation

Compounds of Concern

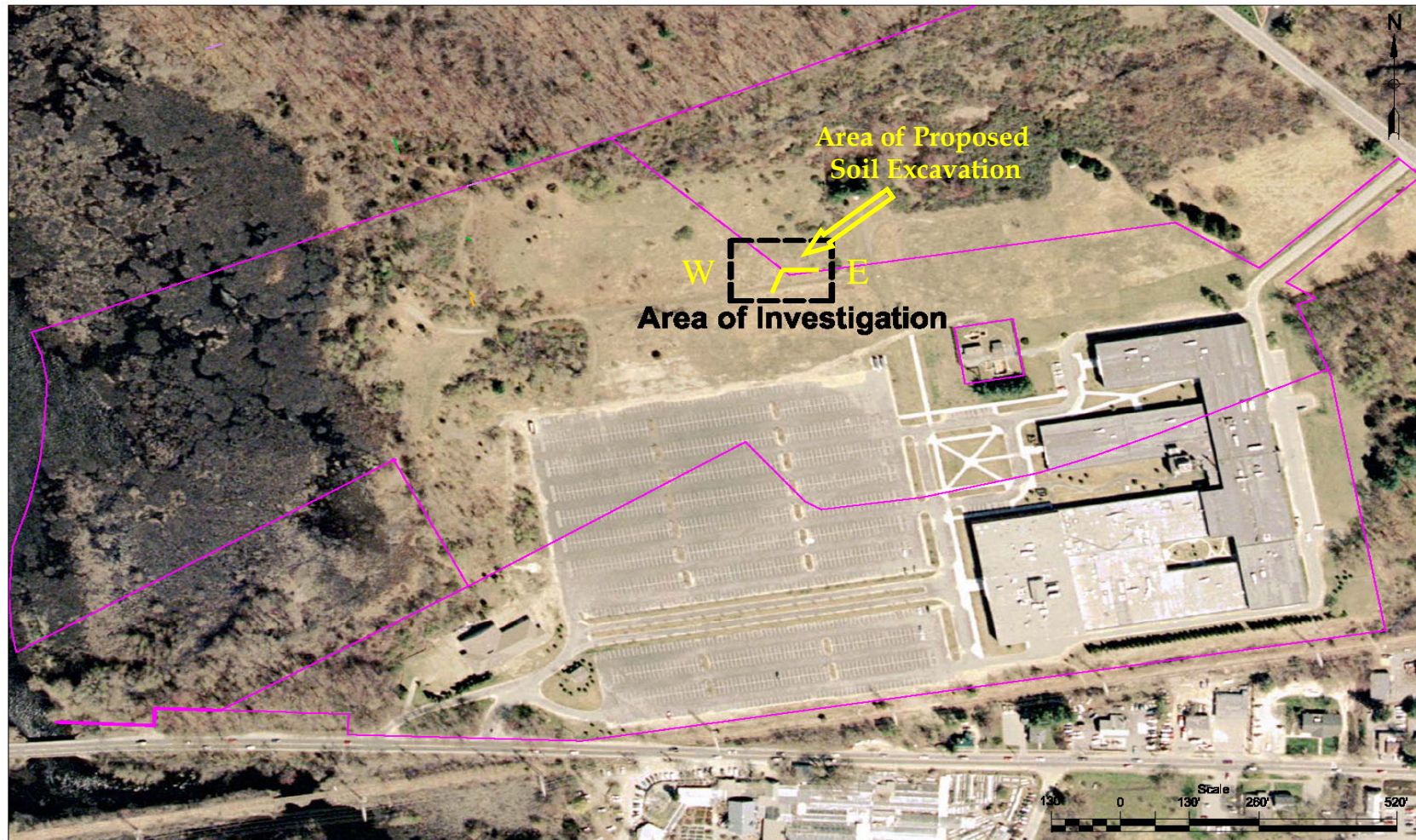


Compounds of concern encountered:

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

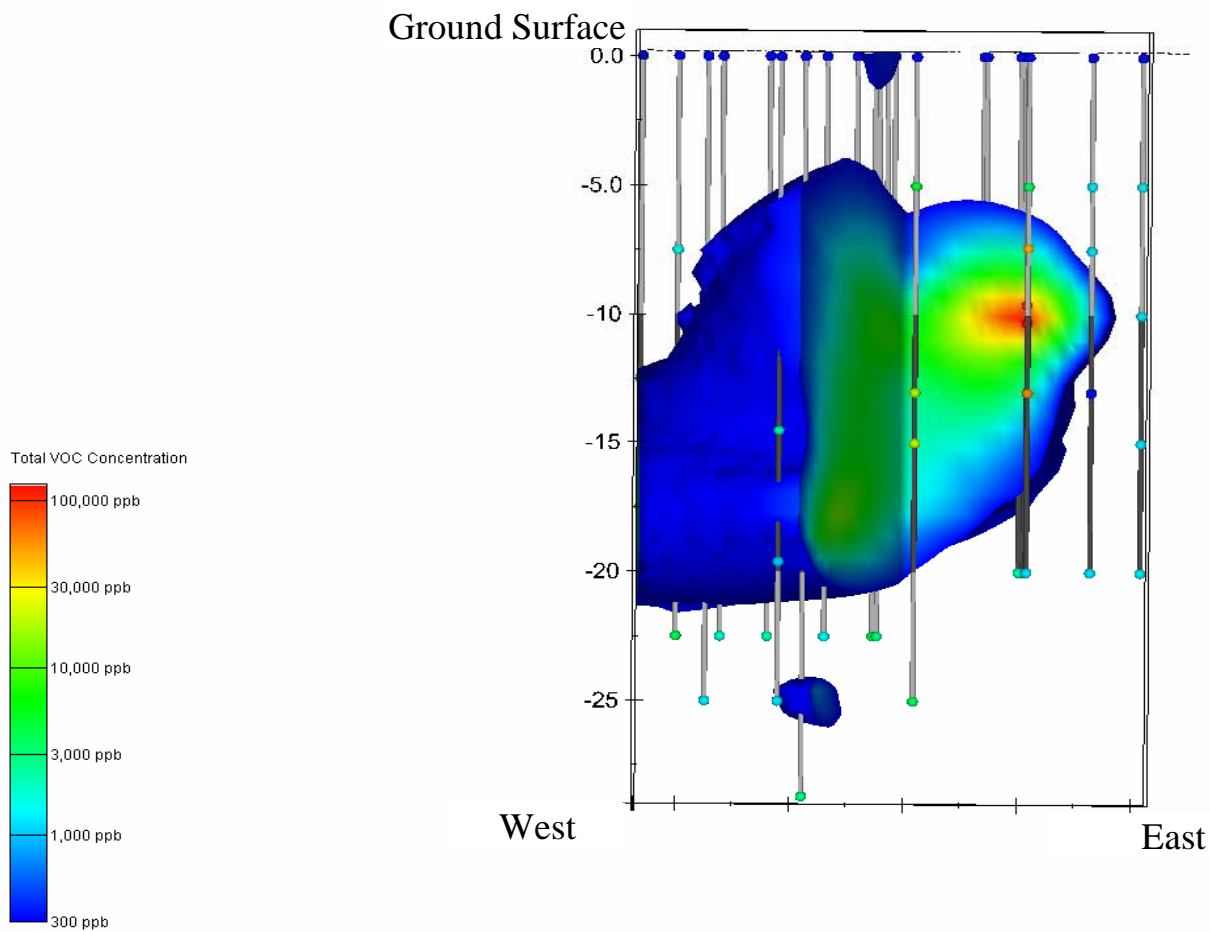
Northern Area Source Area Investigation

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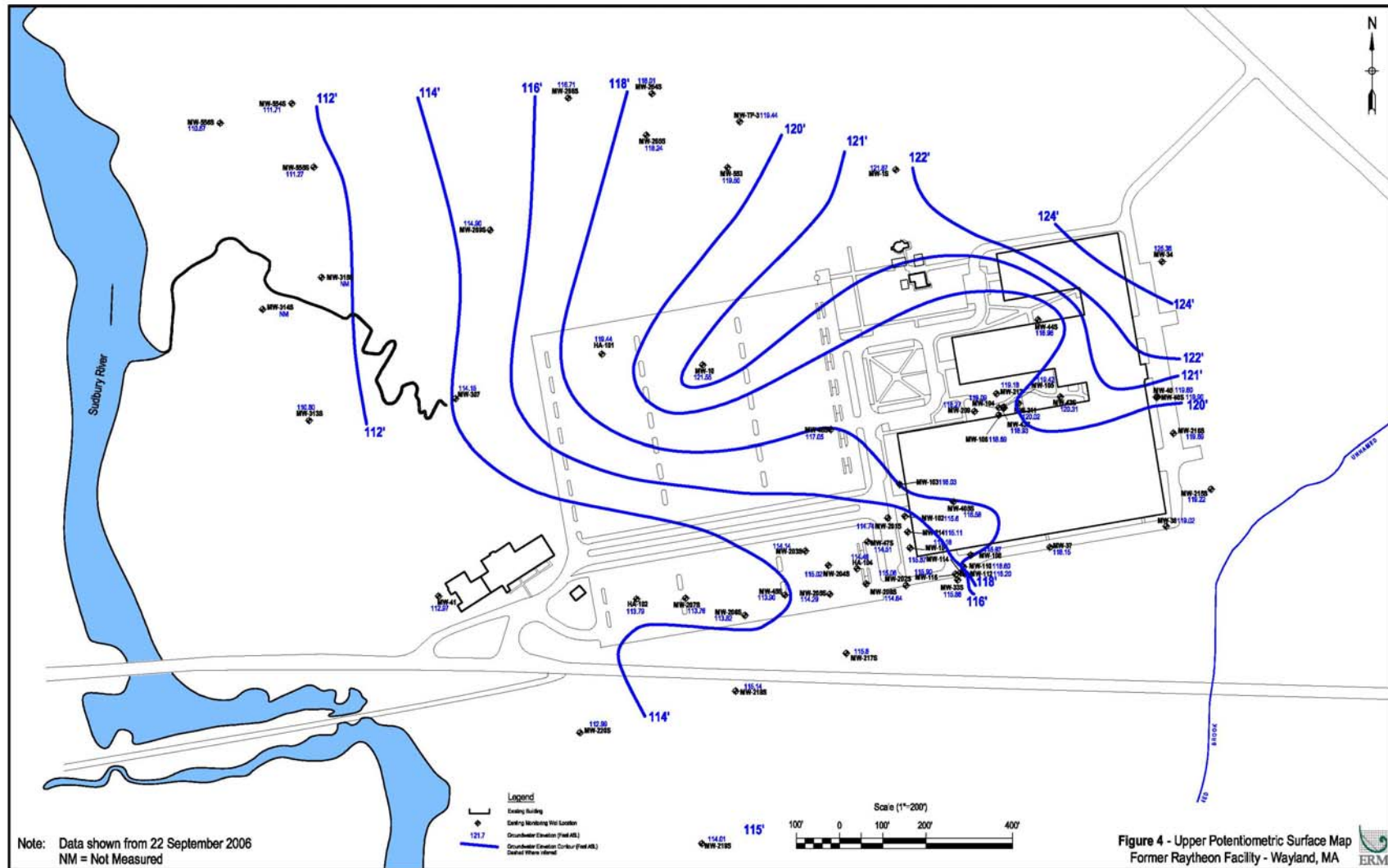
Total VOC Concentration in Soil EVS Visualization

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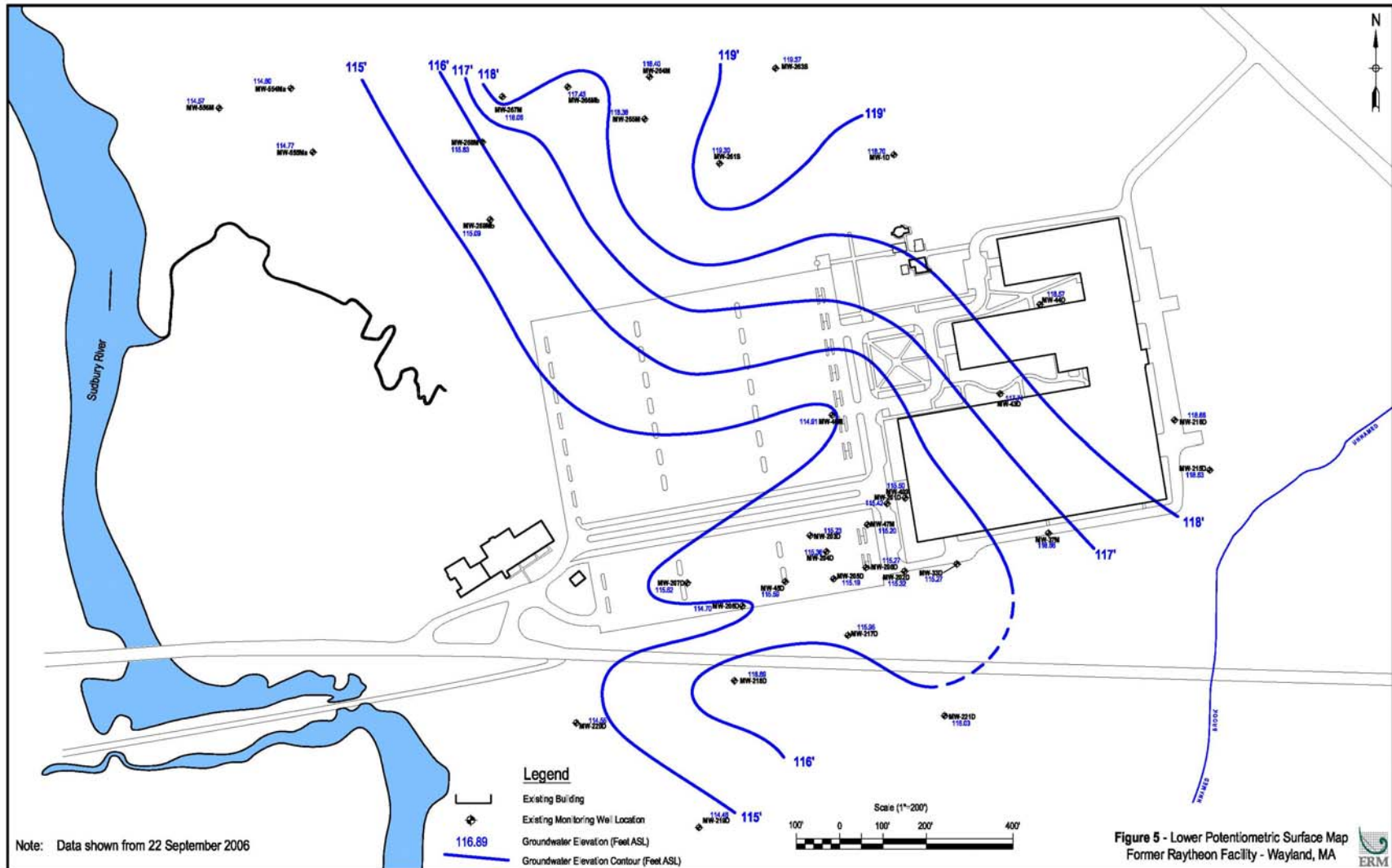
Groundwater Contour Map Upper Potentiometric Surface

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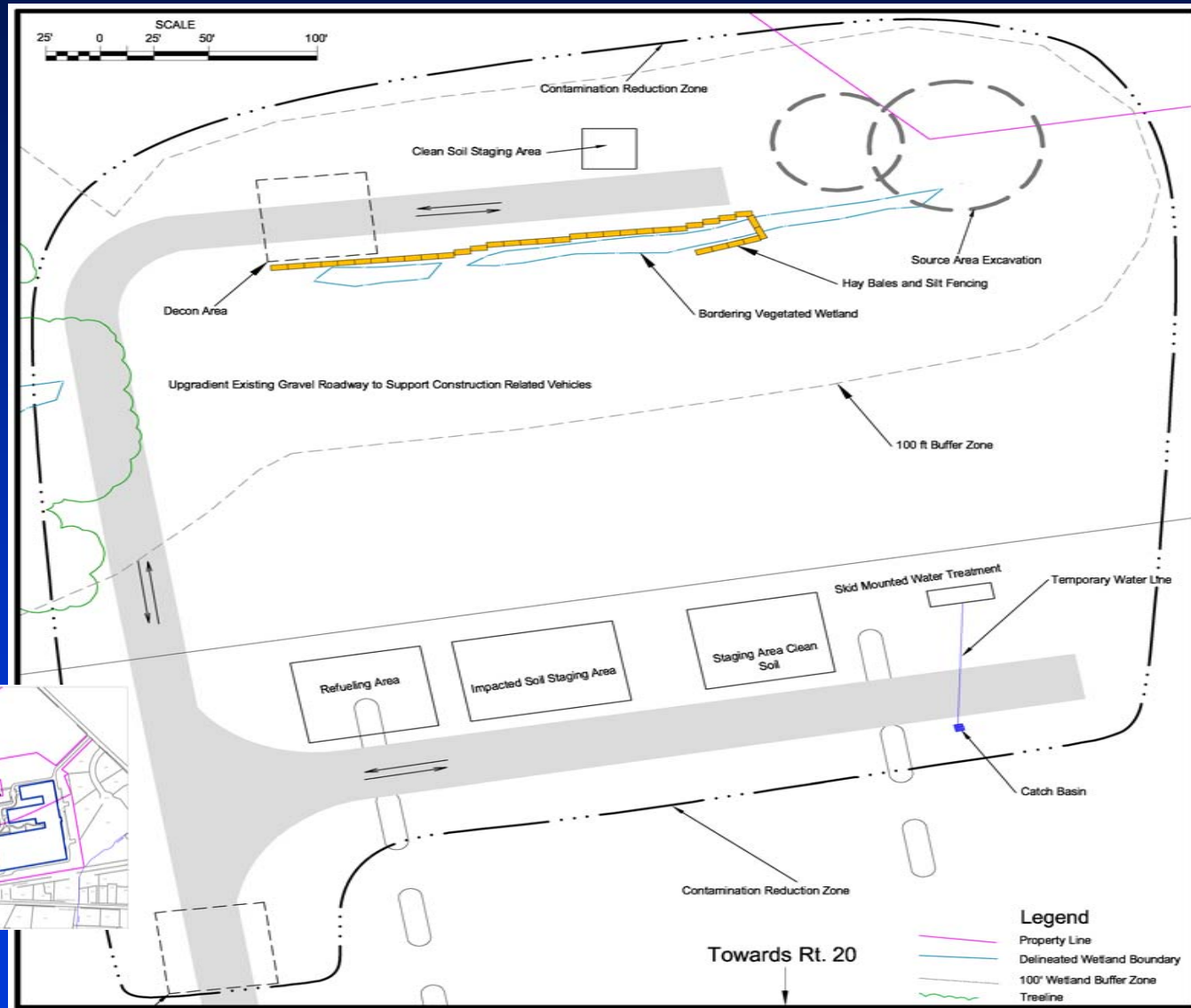


Groundwater Contour Map Lower Potentiometric Surface

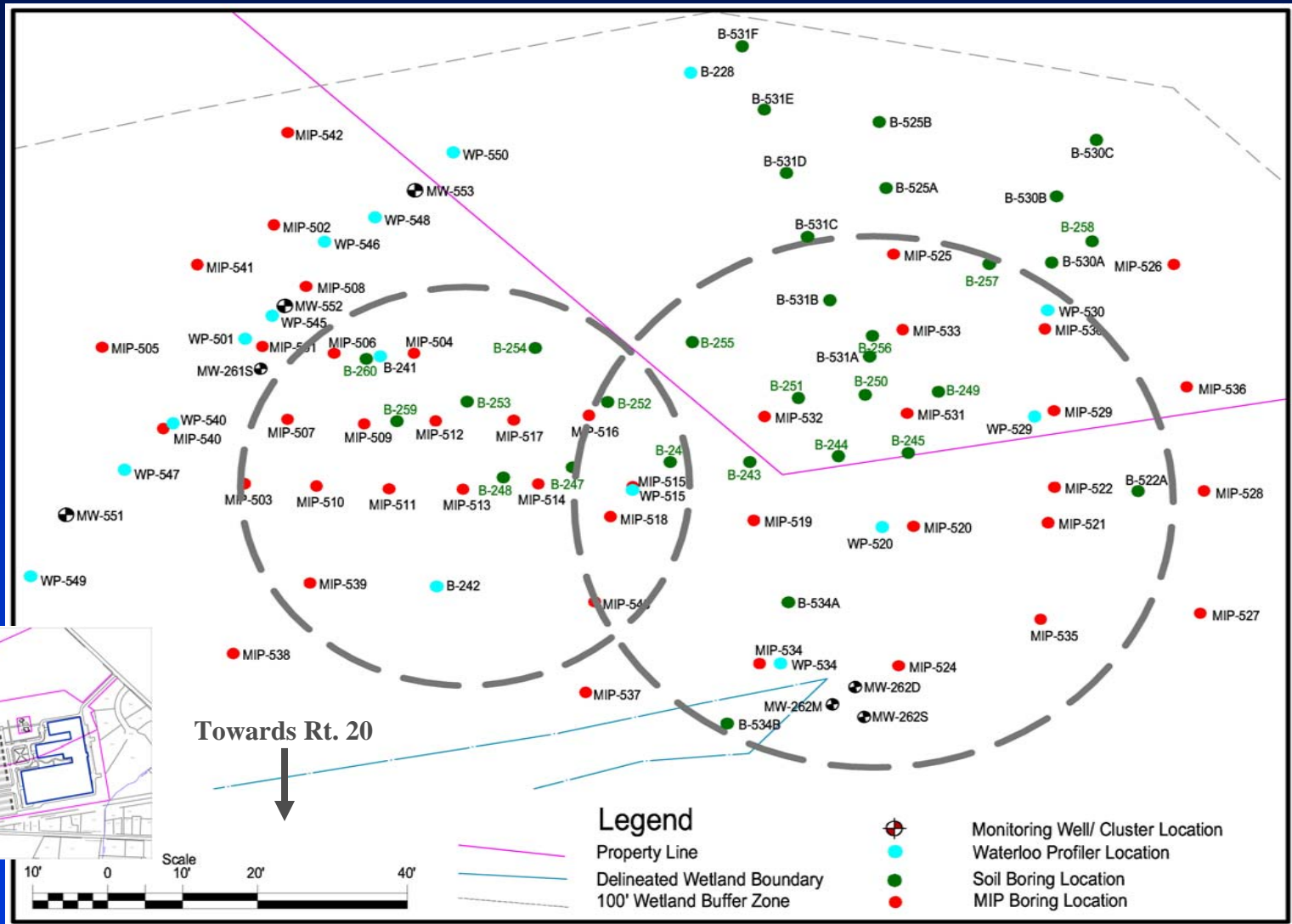
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Construction Layout – Proposed Work Zone



Proposed Remedial Area



Soil Remediation

Excavation of Source Area

- Installation of one 80' diameter coffer dam
- Dewatering and treatment
- Removal of impacted soil to a depth of 25'
- 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

Groundwater Remediation

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

Northern Area Remediation Status

Northern Area Remediation Status

Northern Area remediation delayed until Calendar Year 2007 due to contracting issues.

Groundwater Gauging and Monitoring

Groundwater Monitoring

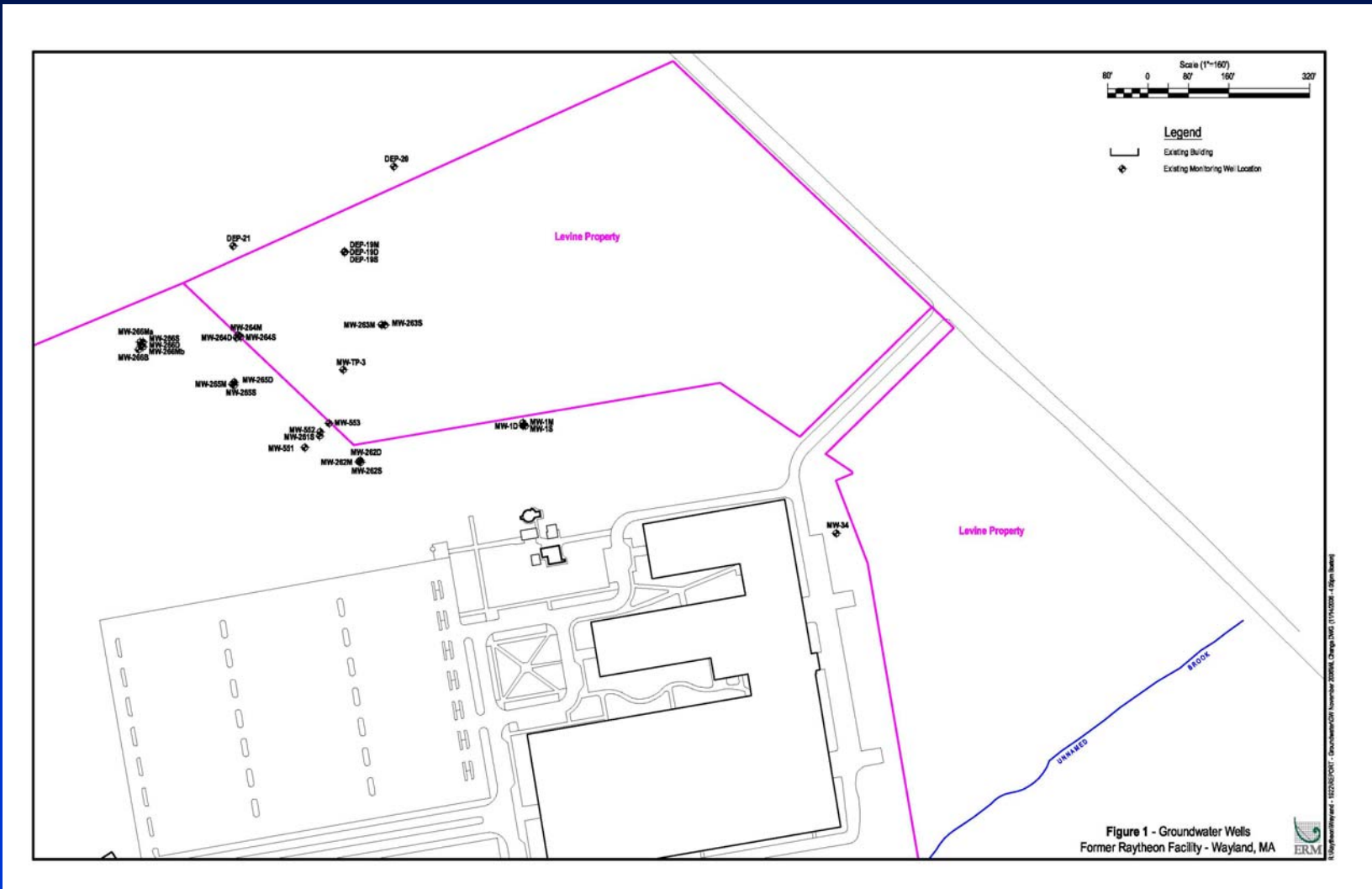
Calendar Year 2006 Groundwater Monitoring

- Monitoring rounds conducted in April, July, and September.
 - Samples from 75 wells analyzed for VOCs, Dissolved Sodium, and/or Sodium Permanganate.
- Monitoring data for Southern Area monitoring wells will be summarized in the upcoming November 2006 Remedy Operation Status Submittal.

Groundwater Gauging

Calendar Year 2006 Groundwater Gauging

- Site-wide gauging rounds conducted in April, July, and September.
 - Water level measured in 169 monitoring wells.
- Limited gauging round conducted in October focusing on wells on or near the Levine Property (northeast corner of the Site).
 - Water level measured in 25 monitoring wells to evaluate the effects of clearing of the Levine Property on Site groundwater elevations.
 - Gauging revealed no out of the ordinary fluctuations.



October 2006 Gauging Round

Table 1
Well Gauging Comparison
Former Raytheon Facility
Wayland, Massachusetts

Location	Potentiometric Surface Elev.		Difference
	22-Sep-06	27-Oct-06	
MW-1S	121.87	123.48	-1.61
MW-1M	119.99	119.87	0.12
MW-1D	118.70	118.53	0.17
MW-261S	119.30	119.24	0.06
MW-262S	119.61	119.58	0.03
MW-262M	116.36	116.42	-0.06
MW-263S	119.37	119.27	0.10
MW-263M	118.55	118.42	0.13
MW-262D	117.44	117.44	0.00
MW-264S	118.01	118.50	-0.49
MW-264M	118.48	118.30	0.18
MW-264D	116.45	116.53	-0.08
MW-265S	118.24	118.56	-0.32
MW-265M	118.38	118.37	0.01
MW-265D	116.60	116.73	-0.13
MW-266S	116.71	117.29	-0.58
MW-266Ma	117.43	117.31	0.12
MW-266Mb	117.43	117.43	0.00
MW-266D	116.51	116.58	-0.07
MW-266B	116.82	116.87	-0.05
MW-34	125.36	124.28	1.08
MW-551	119.28	119.27	0.01
MW-552	119.32	119.29	0.03
MW-553	119.50	119.45	0.05
MW-TP-3	119.44	119.53	-0.09

Notes:

All measurements recorded in feet above mean sea level.

Wetland Monitoring

Wetland Monitoring

Calendar Year 2006 Wetland Monitoring

- Wetland monitoring conducted in June, August, and October.
 - Information collected to gauge success of vegetation, soils, and hydrology.
 - Third year of the five-year monitoring program required by the US Army Corps of Engineers, Wayland Conservation Commission, and MA DEP.
- Summary report to be submitted to the MA DEP in December 2006.

Q & A