

**Welcome to the
Spaulding Fibre Site
Public Meeting**

**Proposed Remedial Action Plan for
Operable Units 5 & 6**



**New York State Department of Environmental Conservation
Division of Environmental Remediation**

Introductions

- **NYS Department of Environmental Conservation:**
 - Glenn M. May, CPG, Project Manager
 - Gregory P. Sutton, P.E., Regional Hazardous Waste Engineer
 - Mark Baetzhold, Citizen Participation Specialist
- **NYS Department of Health:**
 - Matthew Forcucci, Western Regional Office - Buffalo

Definitions

- **Proposed Remedial Action Plan (PRAP):**
 - A document issued by the New York State Department of Environmental Conservation (NYSDEC) identifying a proposed remedy to address contamination at a site.
- **Record of Decision (ROD):**
 - A document issued by the NYSDEC identifying the final remedy selected to address contamination at a site.

Definitions

- **Operable Unit (OU):**
 - A portion of a site that for technical or administrative reasons can be addressed separately to eliminate or mitigate a release, threat of release or exposure pathway resulting from site contamination.
- **Interim Remedial Measure (IRM):**
 - An interim remedial measure is conducted at a site when a source of contamination or exposure pathway can be effectively addressed before completion of the investigation.
 - Two IRMs were completed at this site and will be discussed later in this presentation.

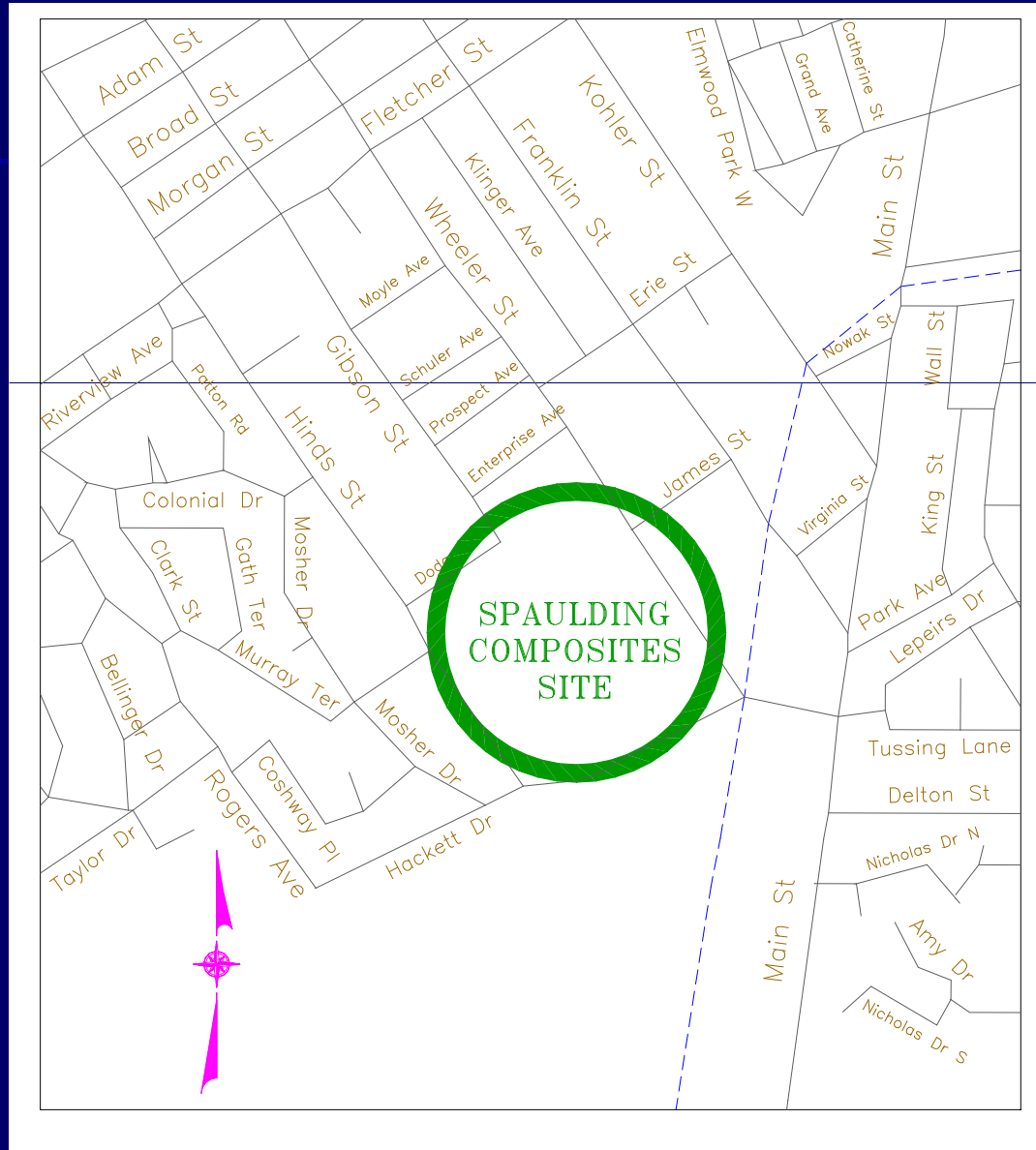
Definitions

- **Remedial Investigation (RI):**
 - A detailed investigation of a site under the NYSDEC State Superfund Program to determine the nature and extent of contamination.
- **Site Investigation (SI):**
 - A detailed investigation of a site under the NYSDEC Environmental Restoration Program to determine the nature and extent of contamination.

Definitions

- **Feasibility Study (FS):**
 - A detailed study under the NYSDEC State Superfund Program to evaluate remedies for remediating contamination at a site.
- **Remedial Alternatives Report (RAR):**
 - A detailed study under the NYSDEC Environmental Restoration Program to evaluate remedies for remediating contamination at a site.

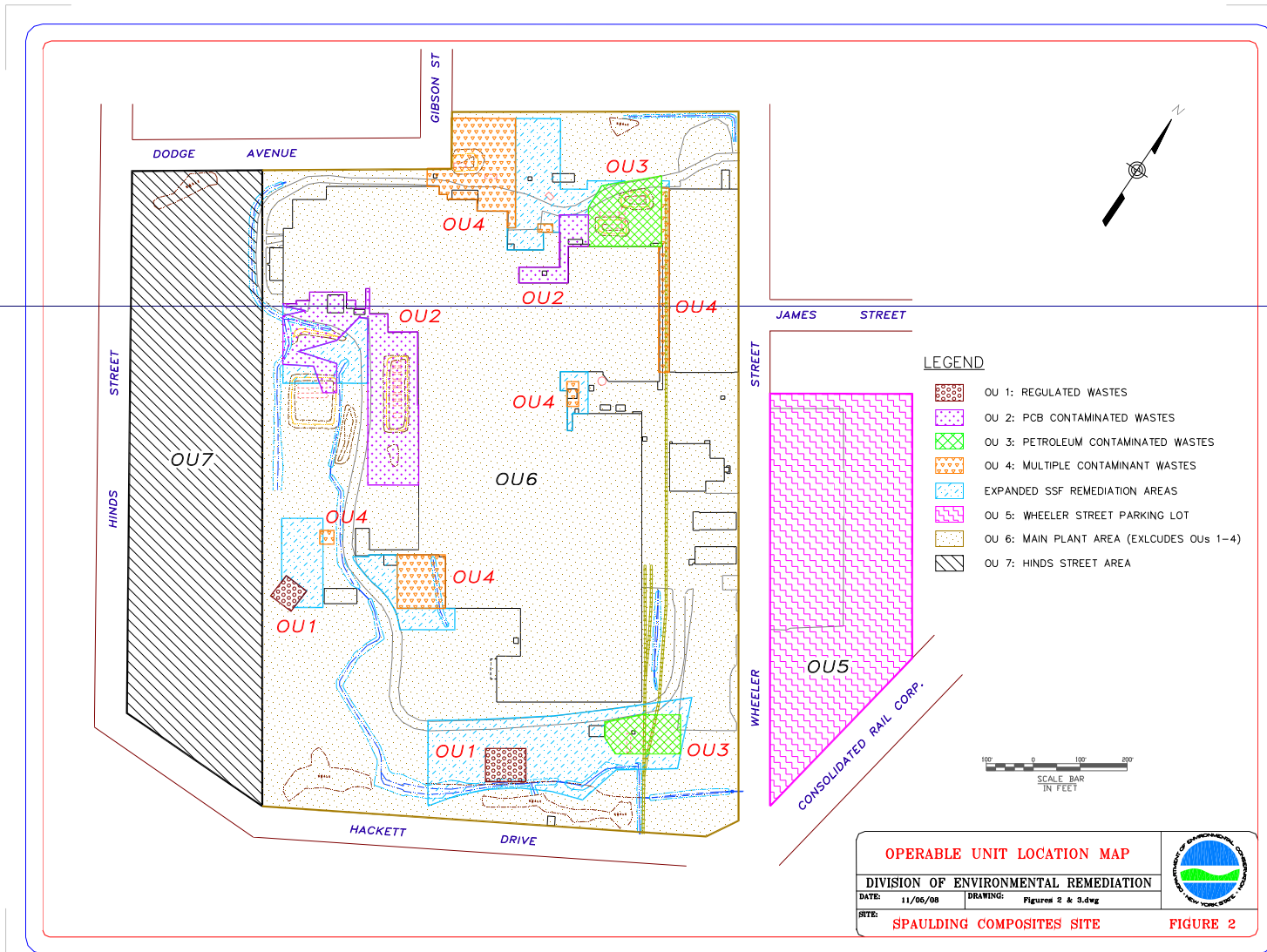
Site Location Map



Site Description

- **State Superfund Operable Units:**
 - OU1: Regulated Landfill Wastes
 - OU2: PCB-Contaminated Wastes
 - OU3: Petroleum Contaminated Wastes
 - OU4: Multiple Contaminant Wastes
- **Environmental Restoration Program Operable Units:**
 - OU5: Wheeler Street Parking Lot
 - OU6: Main Plant Area
 - OU7: Hinds Street Area

Operable Unit Location Map



Site History

- Began operations in Tonawanda in 1911
- Produced laminants and vulcanized fibre sheet and tubes
- Paper (for vulcanized fibre) and resins (for laminants) were also manufactured on site
- Ceased operations in the Fall of 1992

Disposal History

- Contamination at the site resulted from the following:
 - Historical leaks and spills
 - On-site waste disposal in on-site pits
 - Use of on-site settling lagoons
 - Use of imported fill for backfill

Plant Decommissioning

- Began decommissioning activities in August 1992
- Most activities completed between September 1992 and February 1993
- Decommissioning activities completed in 1995

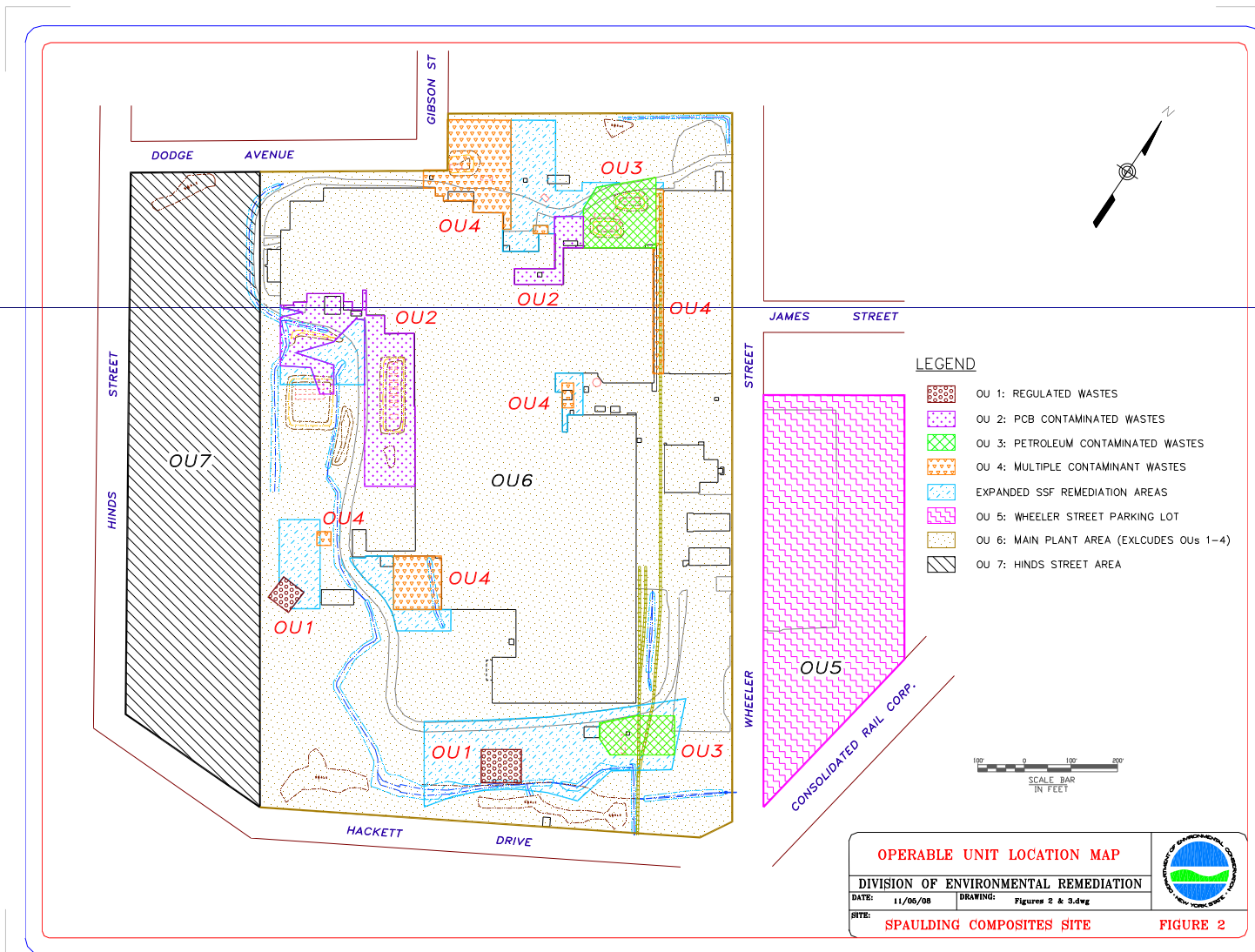
State Superfund RI/FS & ROD

- Remedial Investigation completed by Spaulding between April 1995 and August 1999 for Operable Units 1 through 4
- Feasibility Study completed by Spaulding in December 2000 for Operable Units 1 through 4
- Record of Decision issued by the NYSDEC in March 2003 for Operable Units 1 through 4

State Superfund Remediation

- Operable Unit 2 remediated by the NYSDEC as an emergency response between January 2004 and February 2007
- Operable Units 1, 3 and 4 remediated by the NYSDEC under the State Superfund Program between October 2009 and May 2010

Operable Unit Location Map



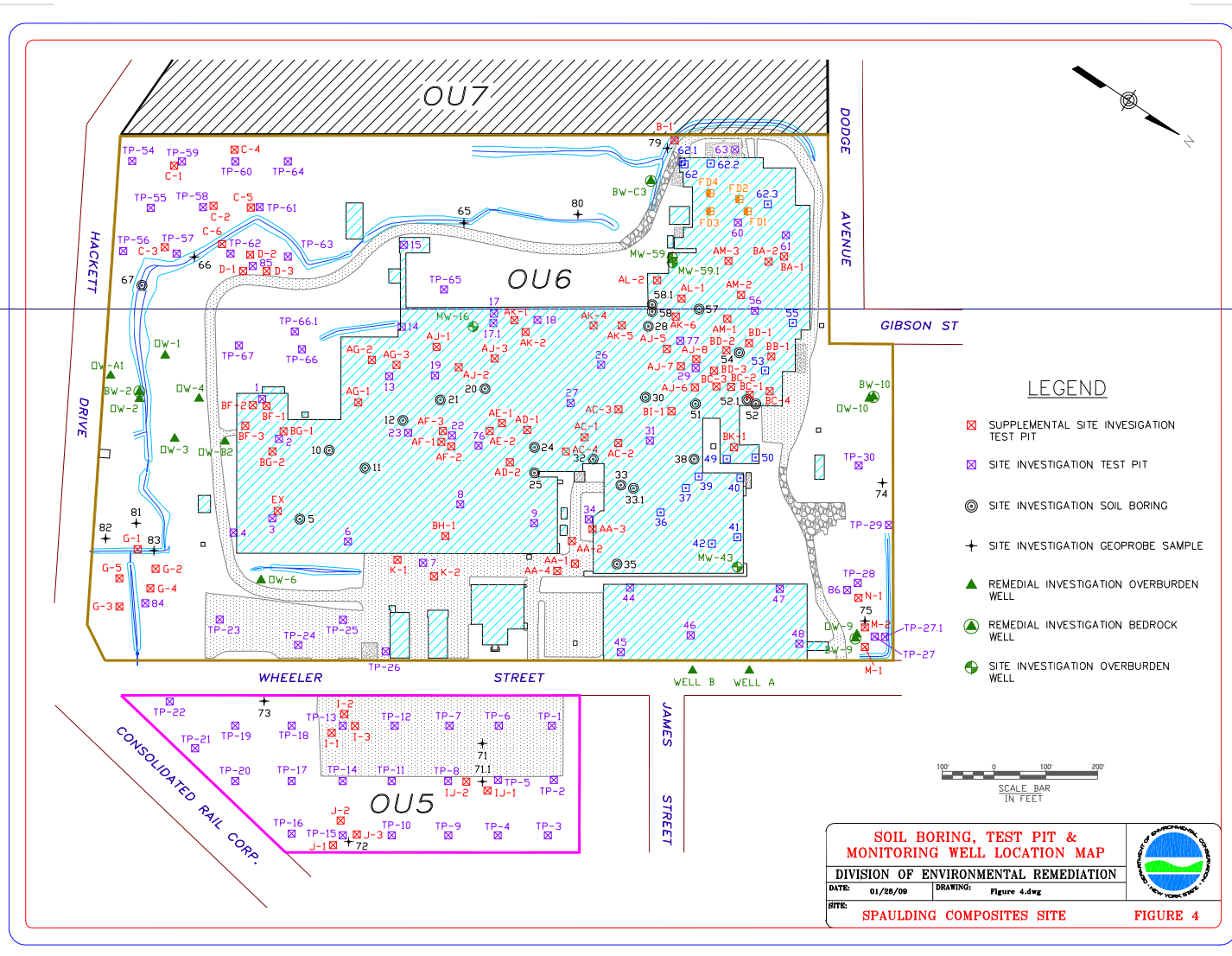
Environmental Restoration Program (ERP)

- City of Tonawanda and Erie County accepted into the ERP July 2006
- Site Investigation completed between June and October 2007
- Supplemental Site Investigation completed in June 2008
- No Action Record of Decision issued for Operable Unit 7 in March 2009

ERP Site Investigation

- Investigation activities at OUs 5 and 6 included:
 - Completion of a geophysical survey to identify buried metal debris, underground storage tanks and utility corridors
 - Completion of soil borings and test pits throughout the site
 - Collection and analysis of surface and subsurface soil samples
 - Collection of groundwater samples from new and existing monitoring wells
 - Completion of a survey showing the locations of the soil borings, test pits and monitoring wells

ERP Site Investigation



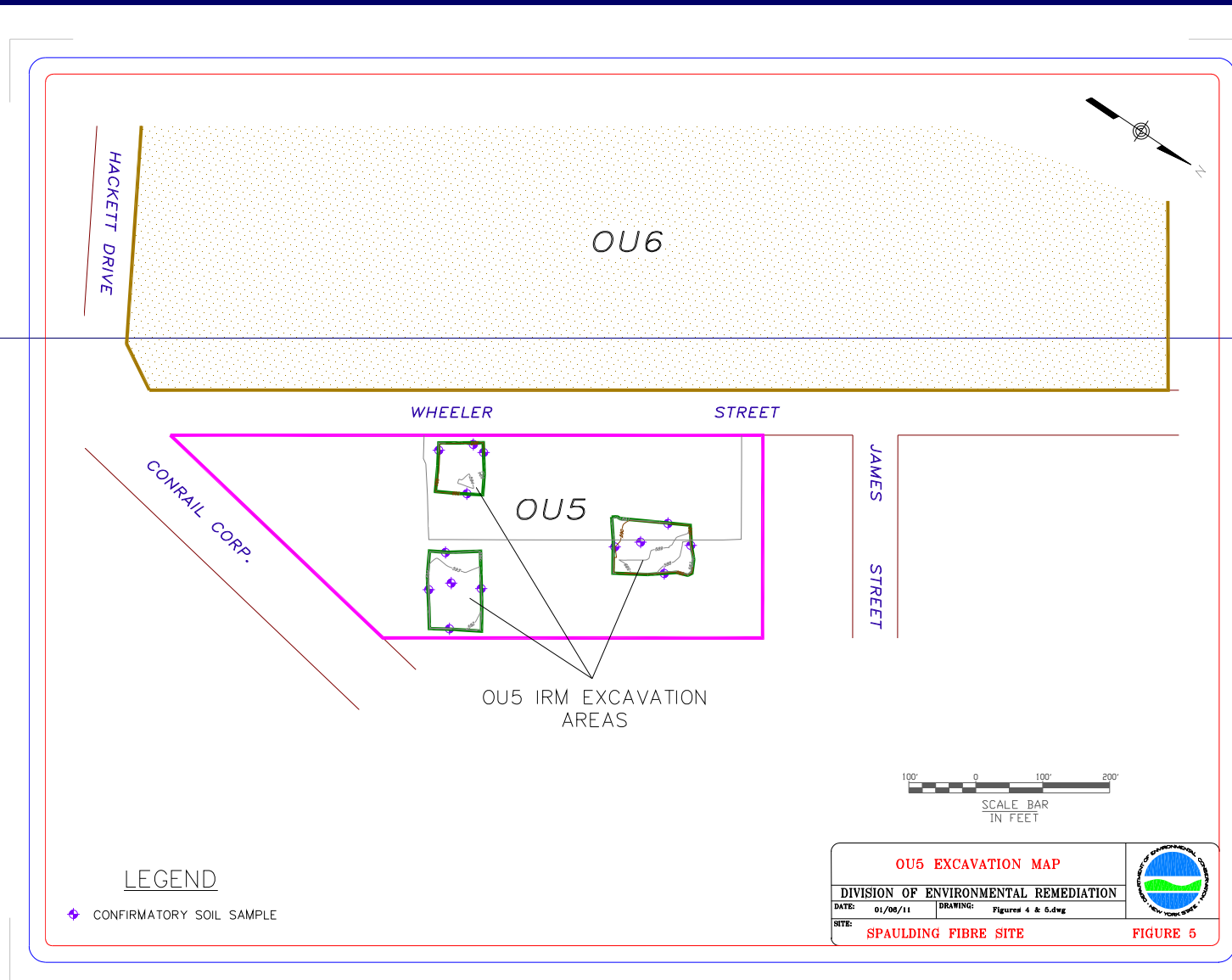
ERP Site Investigation of OU5

- Contaminants exceeding residential soil cleanup objectives included:
 - Semivolatile Organic Compounds
 - Arsenic

ERP Interim Remedial Measure at OU5

- Removal of contaminated soil and fill identified during the Site Investigation was completed as an IRM during February and March 2010 and included the following:
 - Excavation and off-site disposal of approximately 1,850 tons of contaminated soil and fill
 - Collection of post excavation confirmatory samples to ensure compliance with the residential soil cleanup objectives
 - Surveying of the final excavation limits and the locations of the confirmatory samples
 - Backfilling of excavated areas with crushed concrete from Spaulding building demolition

OU5 Excavation Map



ERP Site Investigation of OU6

- Contaminants exceeding restricted residential soil cleanup objectives included:
 - Semivolatile Organic Compounds
 - Polychlorinated biphenyls (PCBs)
 - Metals including arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel and zinc

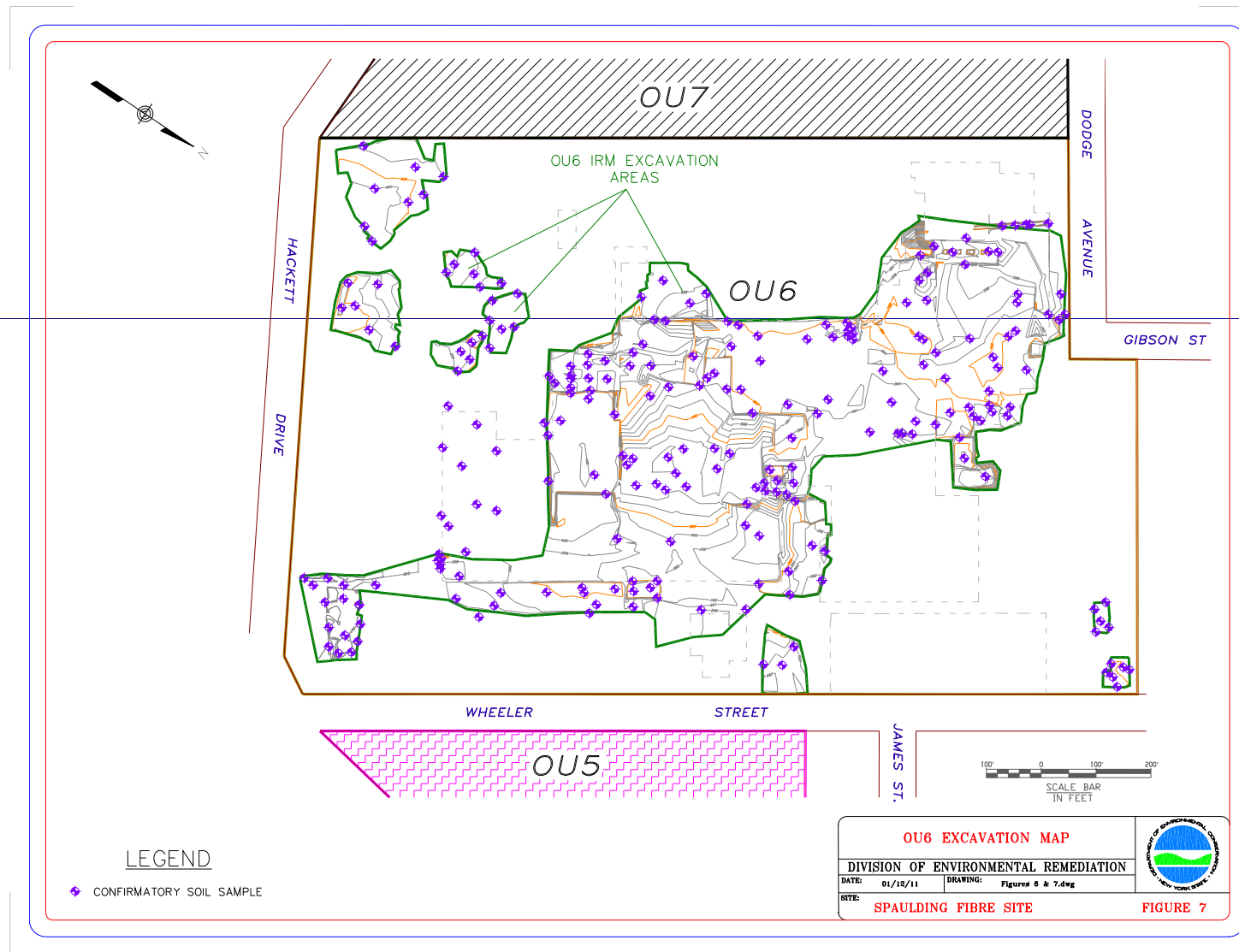
ERP Interim Remedial Measure at OU6

- Removal of contaminated soil and fill identified during the Site Investigation was completed as an IRM between August 2009 and November 2010 and included the following:
 - Excavation and off-site disposal of approximately 67,000 tons of contaminated soil and fill
 - Collection of post excavation confirmatory samples to ensure compliance with the restricted residential soil cleanup objectives
 - Surveying of the final excavation limits and the locations of the confirmatory samples

ERP Interim Remedial Measure at OU6 (continued)

- Backfilling of excavated areas with crushed concrete from Spaulding building demolition or clean soil from an off-site source
- Restoration of the area through regrading, the placement of 4 to 6 inches of topsoil, and seeding.

OU6 Excavation Map



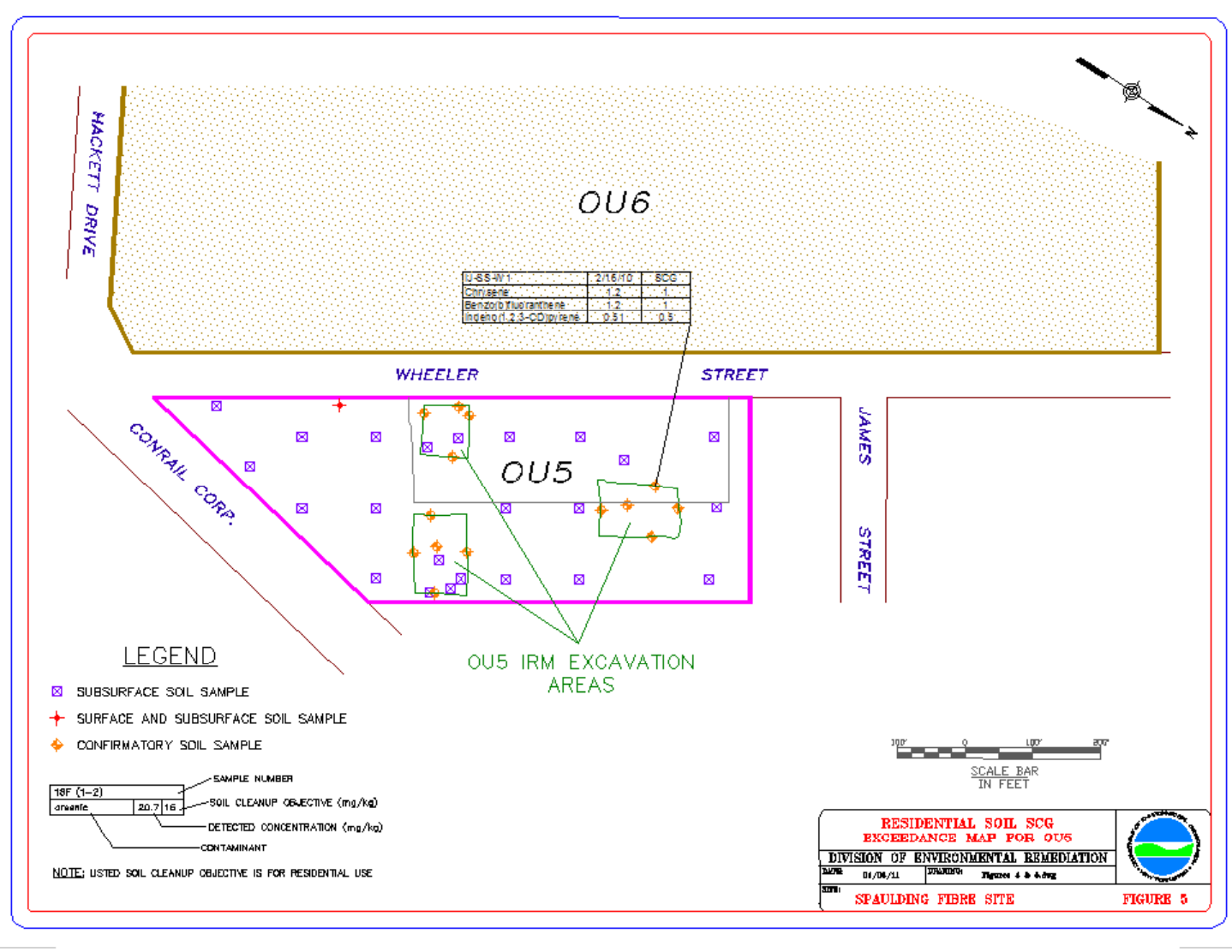
Remedial Alternatives Report

- In order to select an appropriate remedy for the site several alternatives were evaluated including:
 - No Further Action
 - No Further Action with Site Management
 - Restoration to Pre-Disposal or Unrestricted Conditions

Proposed Remedy for OU5

- No Further Action is proposed because the IRM remediated this operable unit to a level more protective than the intended future use of the site (commercial or light industrial)

OU5 Post-IRM Map



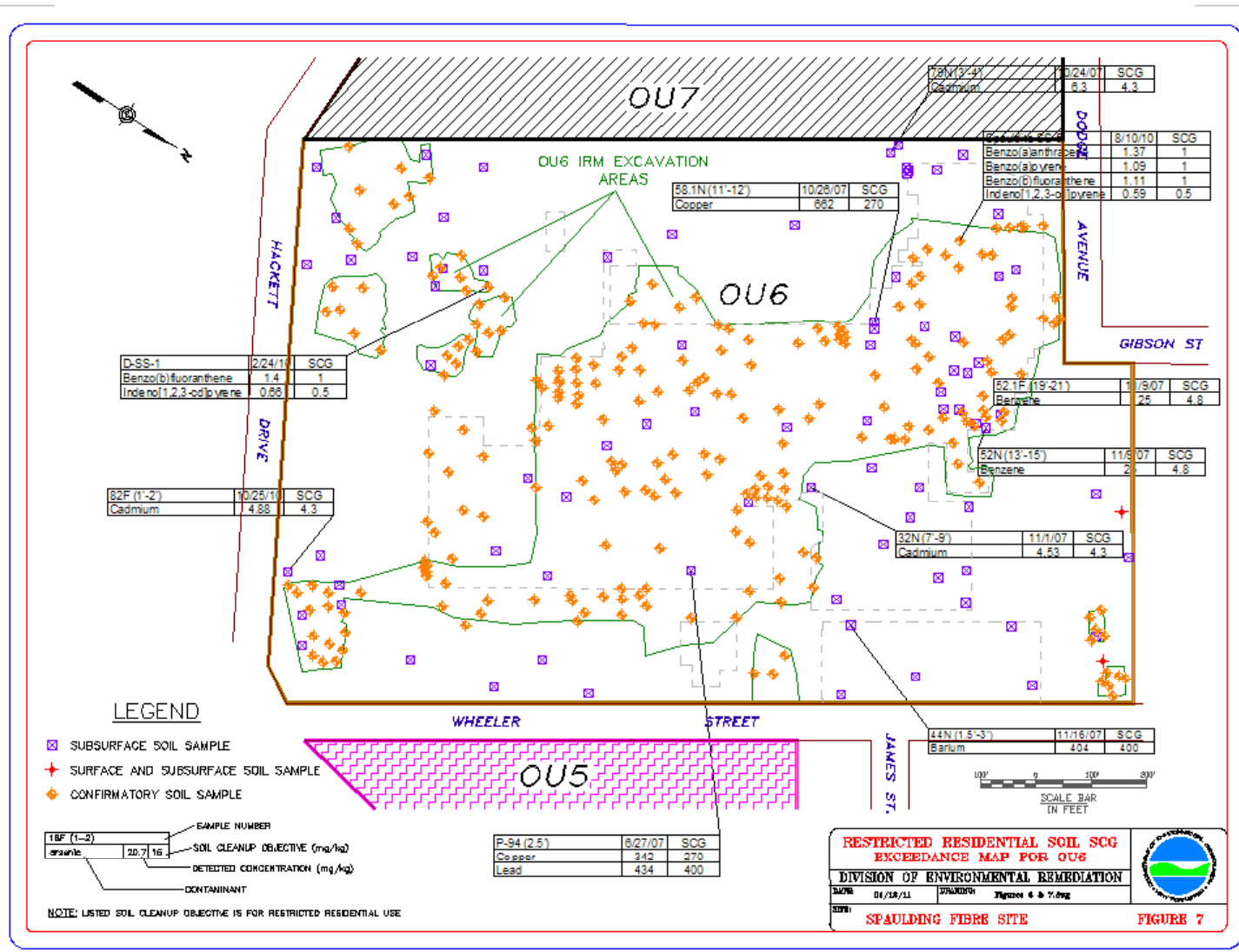
Proposed Remedy for OU6

- No Further Action with Site Management is proposed because the IRM remediated this operable unit to a level more protective than the intended future use of the site (commercial or light industrial)
- This remedy will include the following:
 - Development of a Site Management Plan
 - Filing an Environmental Easement with the county clerk

Proposed Remedy for OU6

- The Environmental Easement:
 - Requires compliance with the Site Management Plan
 - Limits use of the properties to commercial or light industrial use
 - Restricts use of groundwater as a source of drinking water
 - Requires property owner(s) to submit periodic certification of institutional and engineering controls

OU6 Post-IRM Map



What's Next?

- Comments on this PRAP will be accepted until March 25, 2011
- A Responsiveness Summary will be prepared to address all questions raised here tonight and those that are received in writing
- A Record of Decision (ROD) will be prepared that will represent the NYSDEC's final remedial decision on Operable Units 5 & 6

Spaulding Fibre Site - Operable Units 5 & 6

- Written comments should be sent to:
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- Document repositories:
City of Tonawanda Public Library, 333 Main Street
NYSDEC Buffalo office (by appointment)