

# Former National Fireworks Site Hanover, Massachusetts

Massachusetts Contingency Plan (MCP)  
Release Tracking Number 4-0000090

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Commonwealth of Massachusetts  
Executive Office of Energy & Environmental Affairs

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Department of Environmental Protection

# Former National Fireworks Site

## Site Background

- Site comprises approximately 240 acres of property generally located between King and Winter Streets in Hanover
- Historical activities at the Site included research, development, manufacture and testing of munitions and pyrotechnics for the United States Government and some commercial manufacture of civilian fireworks from 1907-1970
- Lead, mercury, organic solvents, and propellants & explosives, were used in manufacturing operations at the Site



# Former National Fireworks Site

## Site Background

- Several companies, including National Fireworks, Inc., operated at the Site until approximately 1970
- An industrial park currently operates at the northern & eastern portions of the Site
- The Town of Hanover purchased approximately 130 acres of the Site in the 1970s



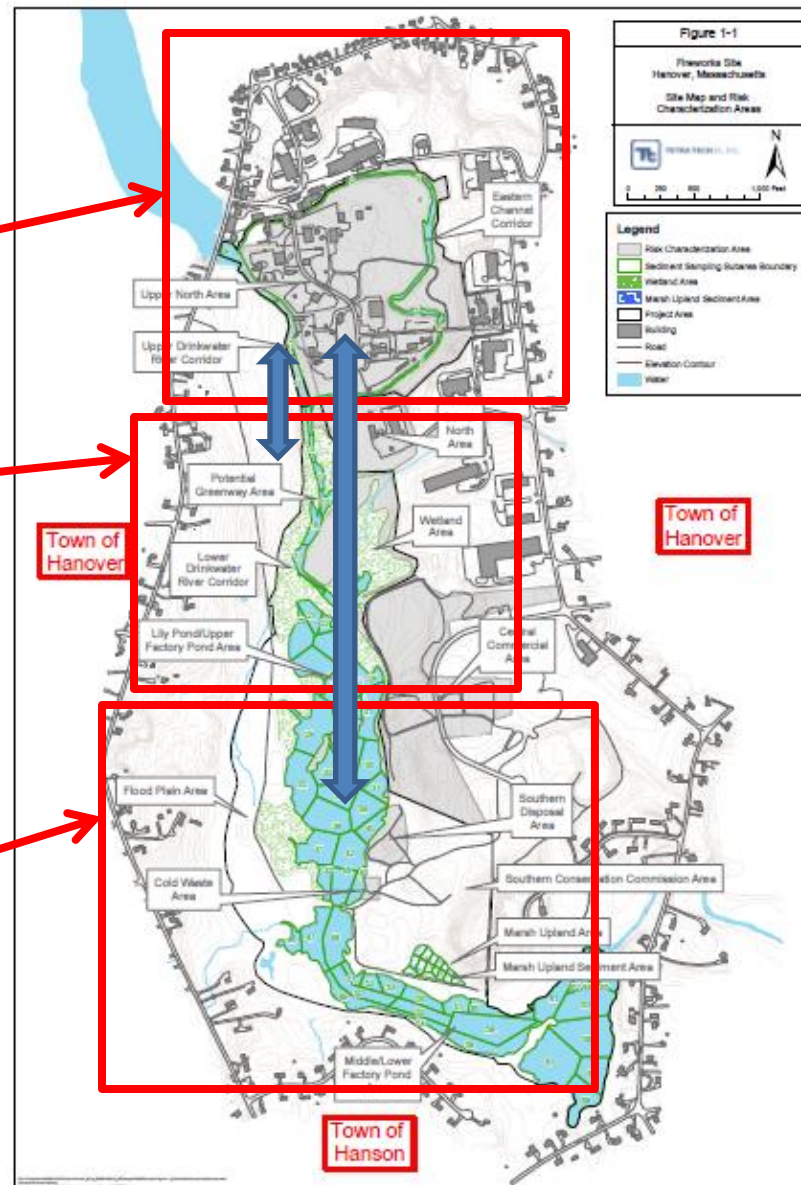
# Former National Fireworks Site

## Site Layout

Manufacturing

Storage

Testing/Disposal



# Who is Responsible for Cleanup?

## Potentially Responsible Parties (PRPs)

- Fireworks Site Joint Defense Group (FSJDG)
  - National Coating Corporation
  - Massachusetts Institute of Technology
  - Susquehanna Corporation (Bankrupt)
  - Kerr-McGee Chemical Corporation (Tronox-Bankrupt)
    - Tronox filed for bankruptcy in January 2009
    - Expendable Trust (\$68 mil) established for reimbursement or payment of response action costs on February 25, 2011
    - Trustee (MassDEP Commissioner) determines reimbursement
- U.S. Department of Defense (Army, Air Force and Navy)
- All property owners where Site contaminants have come to be located



# Regulatory Phased Process

- MassDEP tasked with ensuring the cleanup of oil and hazardous material through M.G.L. Chapter 21E and the Massachusetts Contingency Plan (310 CMR 40.0000 et seq. – the MCP)
- A Licensed Site Professional (LSP, Lawrence Kahrs, Tetra Tech, Inc.) is hired by the potentially responsible party/parties to conduct the investigations, recommend necessary actions, oversee response actions, document findings in reports and certify that the work was done in accordance with the MCP
- Typically, MassDEP provides regulatory oversight through audits of site work and documents, and determines reimbursement for response action costs under the Expendable Trust
- Due to the complexity of the Site, MassDEP is providing direct oversight of response actions and has done so throughout the process



# Regulatory Phased Process

- The MCP prescribes a phased approach to investigate and clean up oil and hazardous material for the protection of human health, safety, public welfare, and the environment
  - **Phase I: Initial Site Investigation**
  - **Phase II: Comprehensive Site Assessment**
    - Supplemental Phase II submitted to MassDEP on 7/2/2018
  - **Phase III RAP: Remedial Action Plan**
    - Evaluation and selection of cleanup alternatives
    - Draft submitted to MassDEP on 7/17/2019
  - **Phase IV: Remedy Implementation Plan**
  - **Phase V: Operation, Maintenance, and/or Monitoring**



# Regulatory Phased Process

## ➤ Phase II findings:

- Mercury detected in sediment, soil, groundwater and fish tissue
  - Additional sediment sampling will be conducted between Factory Pond Dam and Luddam's Ford Dam
- Lead and other metals detected in soil, groundwater and sediment across the Site
- Volatile Organic Compounds have been detected in soil and groundwater at the Site
- Additional work conducted
  - Indoor air sampling
  - Irrigation well sampling





# Regulatory Phased Process

## ➤ Risk Characterization

- Identifies and evaluates Site conditions to characterize risk of harm to (human) health, safety, public welfare and the environment

## ➤ Phase II Risk Characterization findings:

- No public or private water supply wells have been impacted by the contaminants released at the Site
- Potential risk from direct contact with metal-impacted soil
  - Site access is restricted & patrolled by Hanover PD
  - Impacted soil will be excavated and disposed of off-Site
- Risks to people, fish-eating birds and wildlife from ingestion of contaminants found in fish
  - Fish advisory put in place
  - Remedial action is necessary to remove impacted sediment
- Unexploded munitions recently identified in Factory Pond
  - access is restricted until removal can be completed

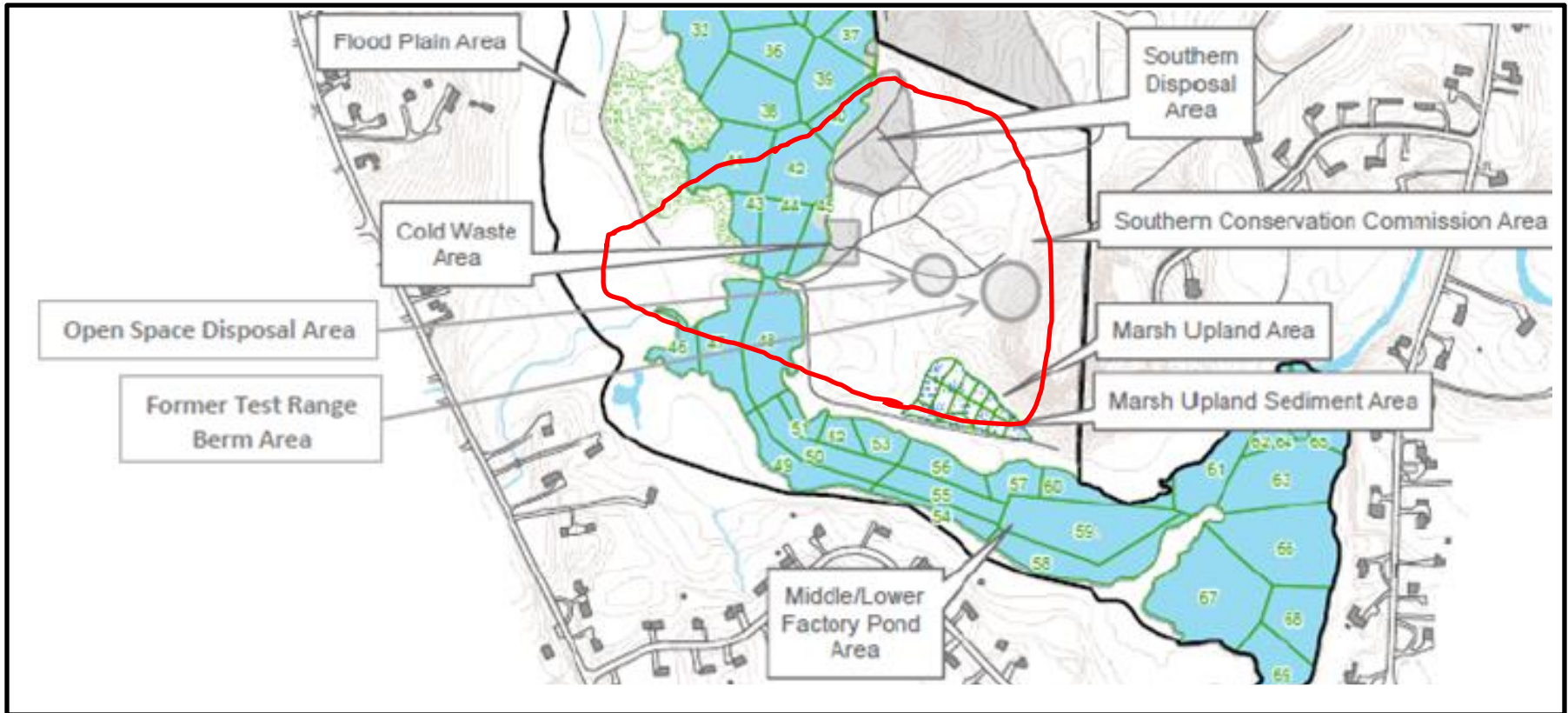


# Regulatory Phased Process

- The MCP also mandates the implementation of Immediate Response Actions (IRAs) to eliminate Imminent Hazards (i.e., immediate threats to human health, safety, public welfare or the environment)
  - Munitions response work currently ongoing at the Site
- The MCP provides for public involvement opportunities at various points throughout the phased process.



# Location of Munitions Risk Reduction Immediate Response Action



# Former National Fireworks Site List of Contacts

## MassDEP Contact Information:

Deborah Marshall-Hewlitt, Project Manager  
508-946-2888, Southeast Regional Office  
[Deborah.Marshall-Hewlitt@mass.gov](mailto:Deborah.Marshall-Hewlitt@mass.gov)

Leonard Pinaud, Munitions Task Manager  
508-946-2871, Southeast Regional Office  
[Leonard.Pinaud@mass.gov](mailto:Leonard.Pinaud@mass.gov)

Jennifer Davis, Senior Regional Counsel  
617-556-1075, Boston  
[Jennifer.Davis@mass.gov](mailto:Jennifer.Davis@mass.gov)

Courtney Rainey, Director of Government Affairs & Municipal Partnerships  
(617) 292-5946, Boston  
[courtney.rainey@mass.gov](mailto:courtney.rainey@mass.gov)

## Attorney General's Office Contact Information:

Carol Iancu, AAG, Energy & Environment Bureau  
617-963-2428, Boston  
[Carol.Iancu@mass.gov](mailto:Carol.Iancu@mass.gov)

Alicia Rebello-Pradas, AAG, Senior Policy Advisor, Policy & Government Bureau  
617-963-2057, Boston  
[Alicia.Rebello-Pradas@mass.gov](mailto:Alicia.Rebello-Pradas@mass.gov)

