



# PCB Assessment & Remediation at Brownfields – Regulatory Framework and Case Study

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Northeast Waste Management Officials' Association

Revitalizing New England: Brownfields Summit 2022

### **Common PCB Uses and Occurrence at Brownfields**

#### Uses:

- Electrical equipment
- Hydraulics and lubricants
- Plasticizers
- Pigments, dyes, inks
- Adhesives, sealants, and caulk

#### Occurrence:

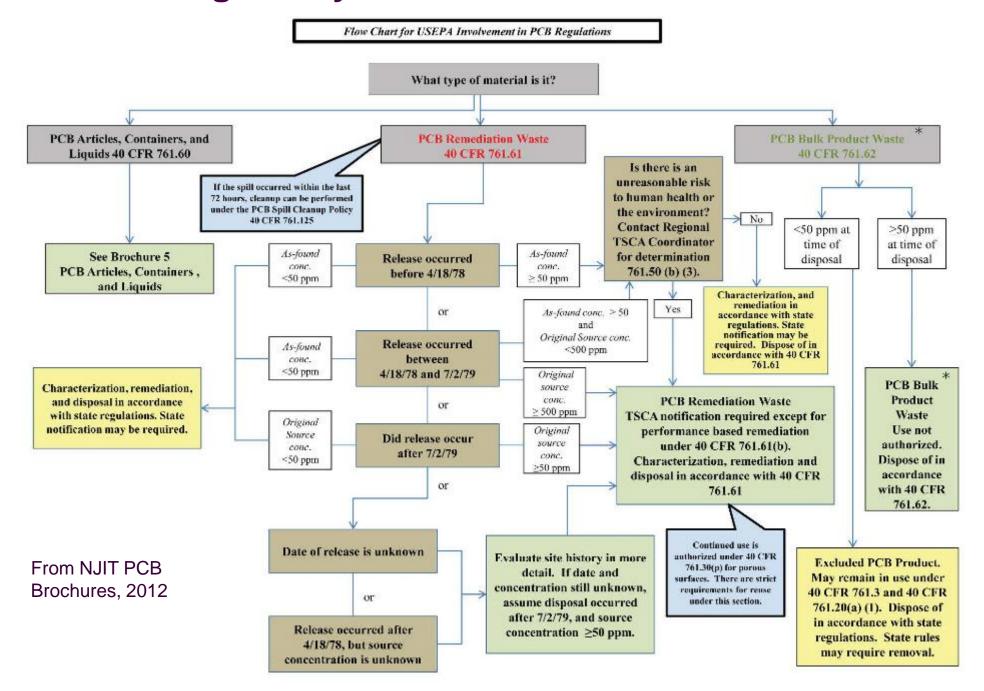
- Articles, Containers, and Liquids
- Bulk Products
- Remediation Wastes





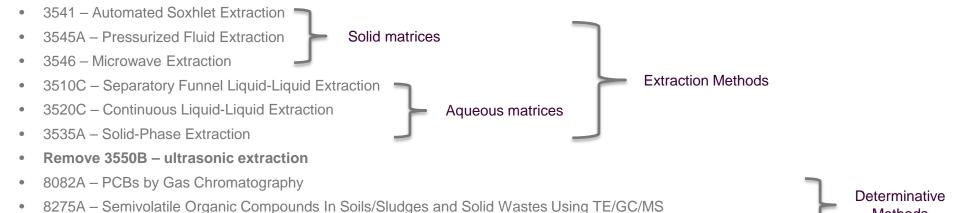


## Federal Regulatory Framework – 40 CFR Part 761



## PCB Cleanup & Disposal Program Proposed Changes

### Allow additional extraction and analytical methods for PCB analysis



### Performance Based Cleanup Amendments

- Record keeping and notification requirements
- RCRA Subtitle C landfills for non-liquid PCB remediation waste

Removal of §761.62(d)(2) – PCB bulk product roadbed disposal

CWA Method 1668C - Chlorinated Biphenyl Congeners in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS

Flexibility for spill cleanups

Harmonizes PCB remediation waste disposal requirements

Methods

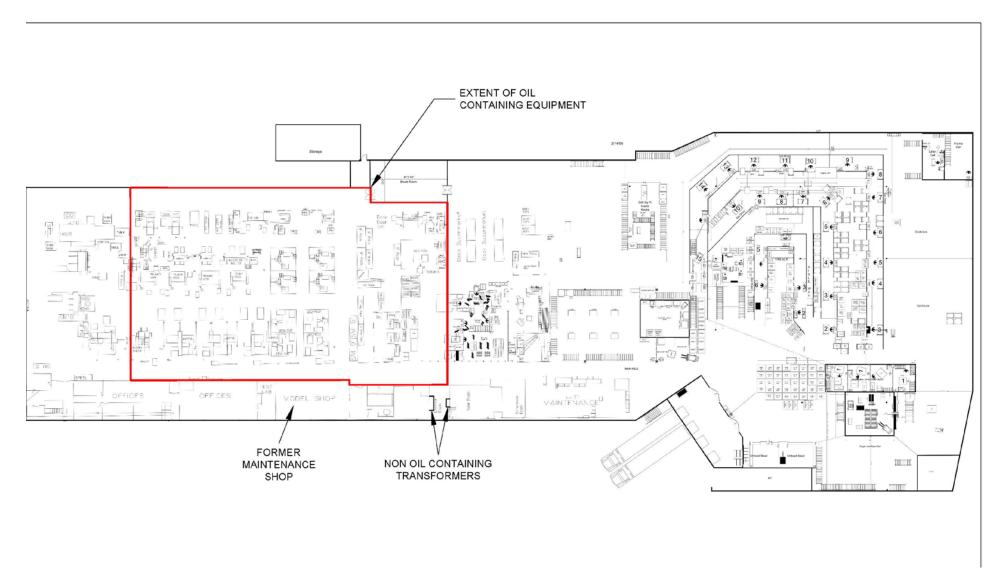
## **New Vermont Regulations: Act 74**

(3) "Release" means any intentional or unintentional action or omission resulting in the spilling, leaking, pumping, pouring, emitting, emptying, dumping, or disposing of hazardous materials into the surface or groundwaters, or onto the lands in the State, or into waters outside the jurisdiction of the State when damage may result to the public health, lands, waters, or natural resources within the jurisdiction of the State. "Release" also means the intentional or unintentional action or omission resulting in the spilling, leaking, emission, or disposal of polychlorinated biphenyls (PCBs) from building materials in a building or structure.

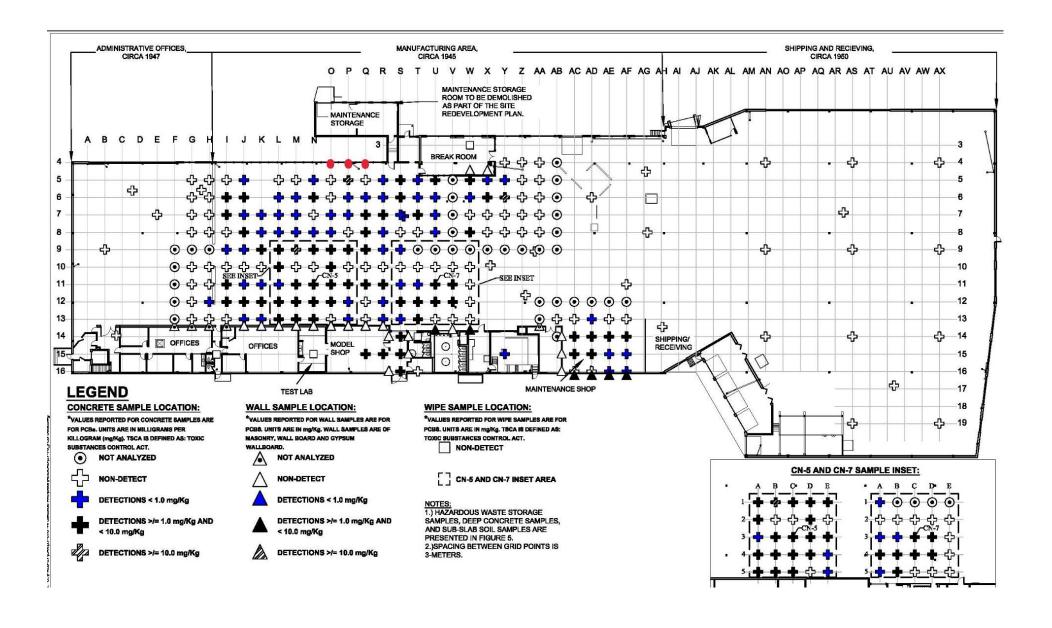
## Case Study: Former Blodgett Ovens Facility – Burlington, VT



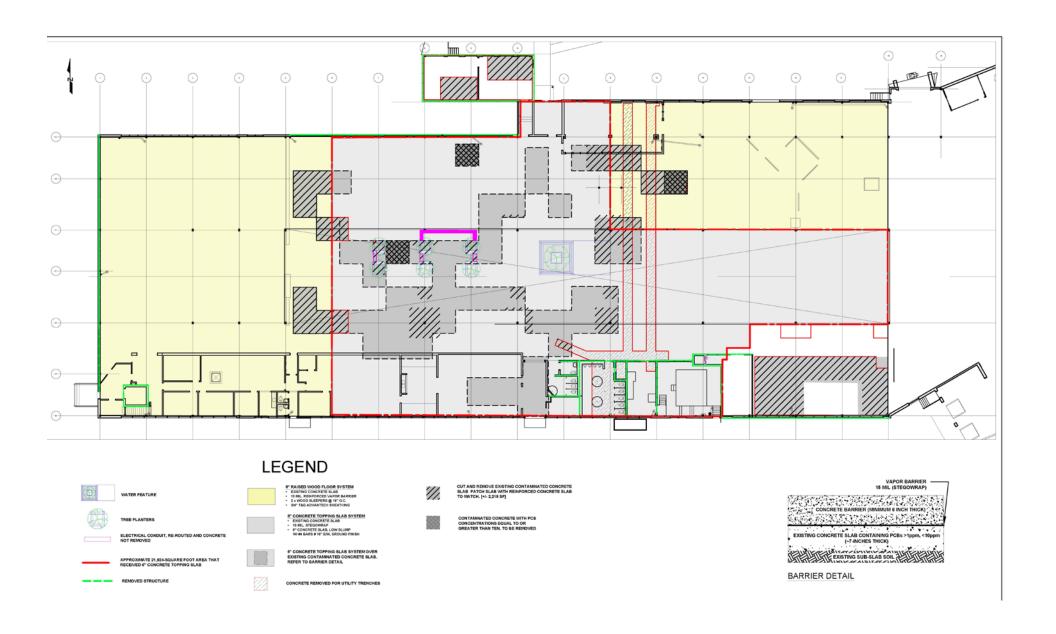
# Self-Implementing and Risk-Based Cleanup and Disposal – Former Manufacturing Facility



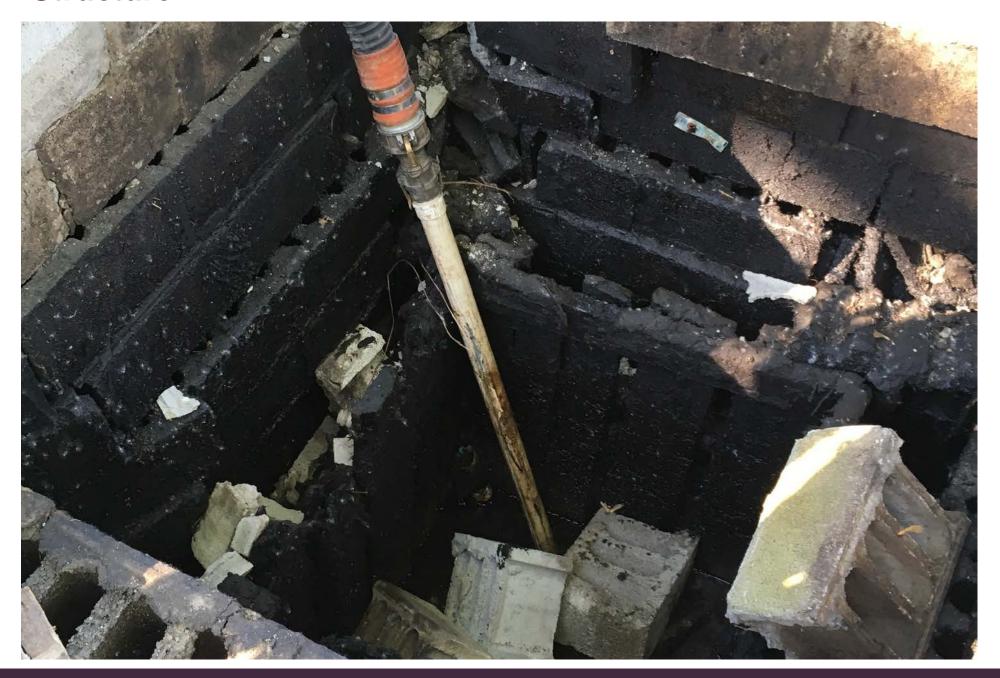
### **Porous Material Characterization**



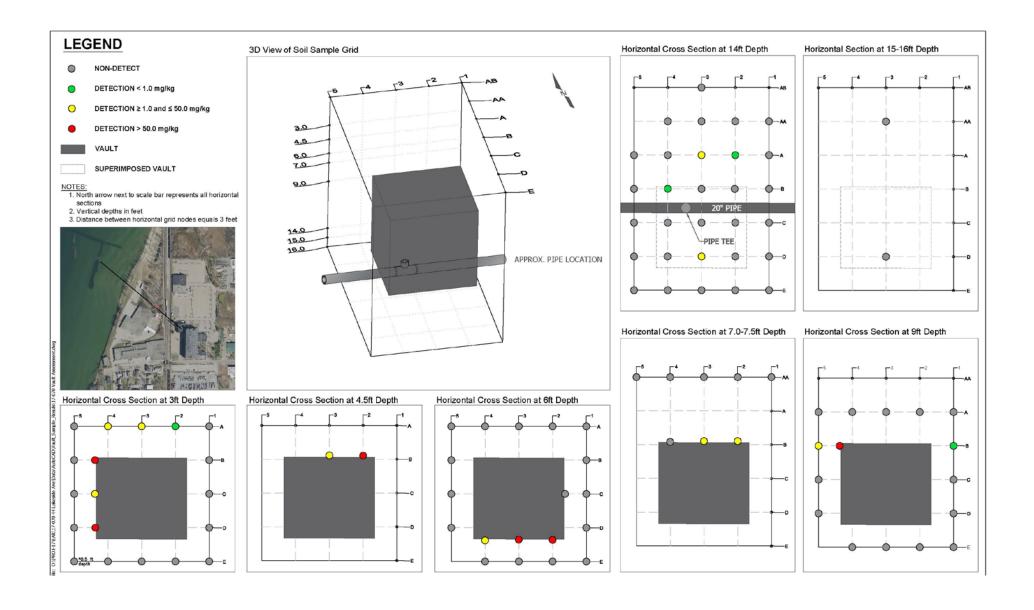
## **Porous Material Removal and Capping Plan**



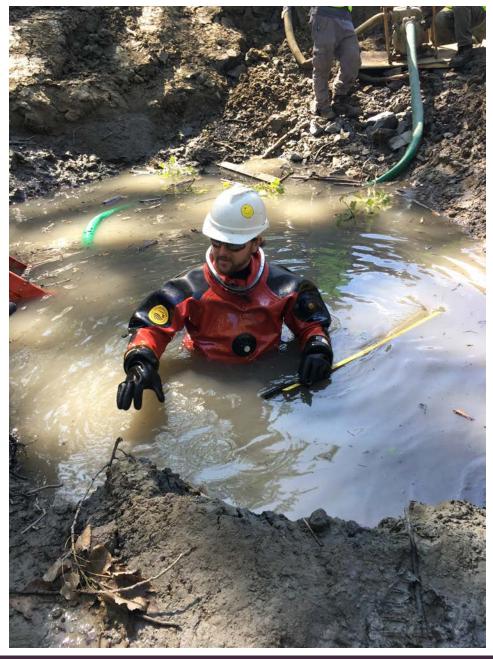
# Performance-Based Cleanup & Disposal – Subsurface Structure



### **Subsurface Structure Soil Characterization**



## Where do scuba divers fit in?





## **Current Site Status**







## Thank you.

#### References:

Code of Federal Regulations Title 40: Protection of Environment Part 761 – Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions: <a href="https://www.ecfr.gov/cgi-bin/text-jdx?tpl=/ecfrbrowse/Title40/40cfr761\_main\_02.tpl">https://www.ecfr.gov/cgi-bin/text-jdx?tpl=/ecfrbrowse/Title40/40cfr761\_main\_02.tpl</a>

New Jersey Institute of Technology PCB Brochures, September 18, 2012: <a href="http://www.njit.edu/tab/pcb">http://www.njit.edu/tab/pcb</a>

Questions?

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