



STONE ENVIRONMENTAL

100% EMPLOYEE OWNED

PCB Background and Federal Regulatory Framework

June 9, 2021

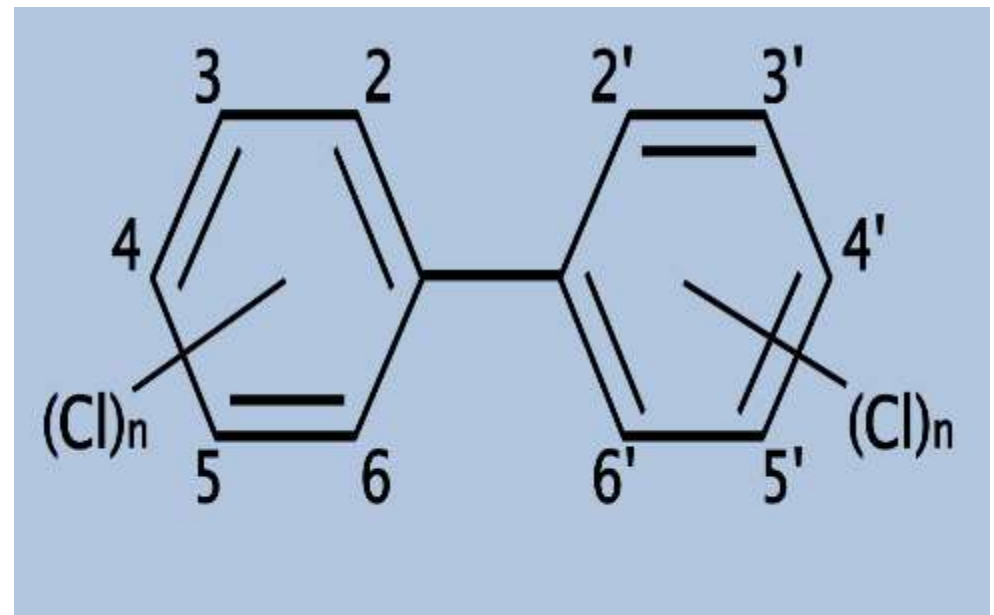
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Vermont Environmental Consortium 10th Annual Conference

What are PCBs?

Class of man-made chemicals with 2-10 chlorine atoms attached to biphenyl molecule.

- 209 possible compounds (congeners)
- Aroclors – tradename of mixtures produced in US from 1929 -1977
 - Aroclor # associated with % chlorine by weight (e.g., 1254 would have ~ 54% chlorine)
- Chemically stable
- Fire retardant
- Colorless – light yellow
- Oily liquids or waxy solids
- Odorless and tasteless
- Fat soluble



General Chemical Structure of PCBs

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



PCB Remediation Waste Cleanup Options Under TSCA

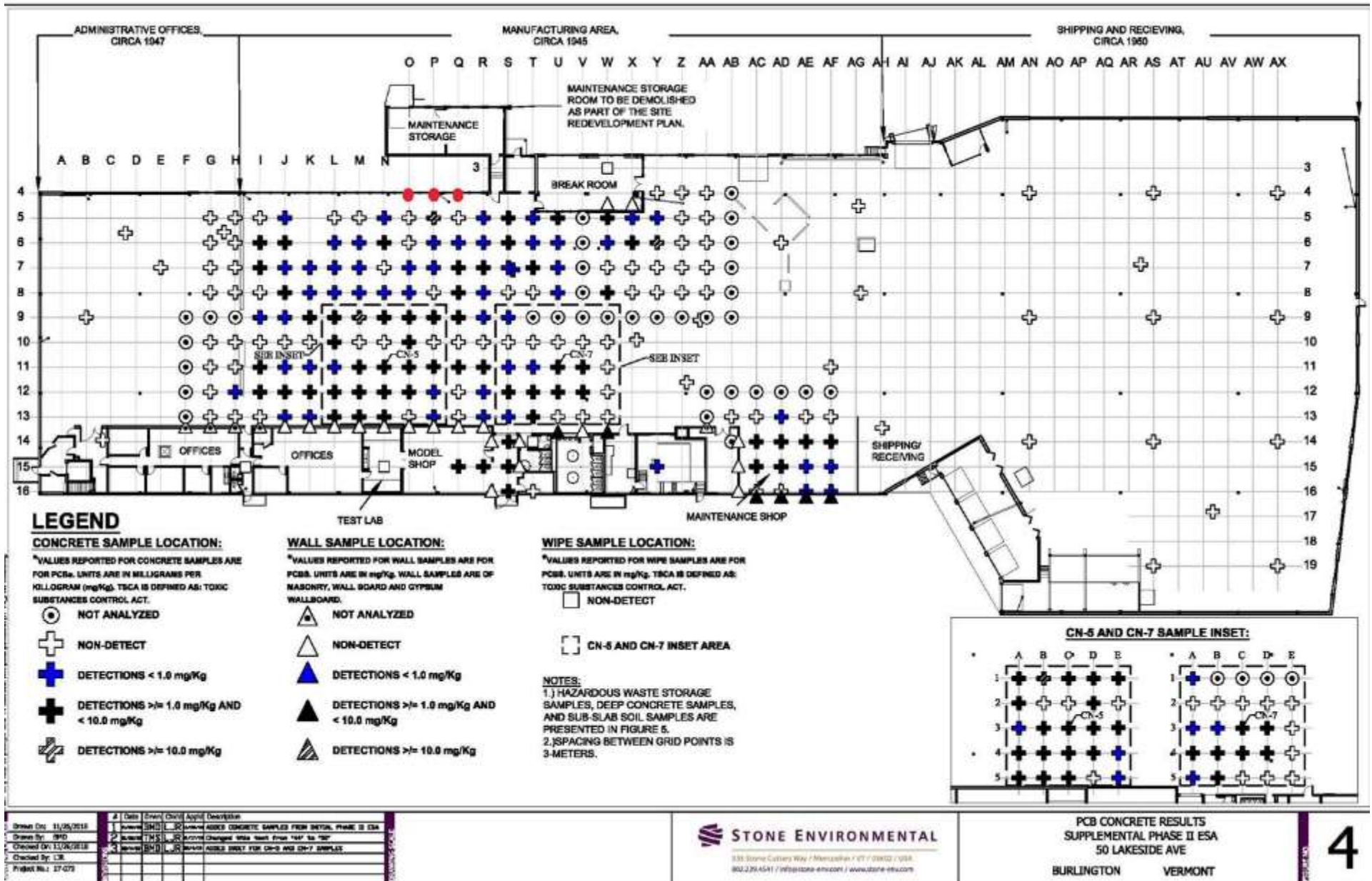
Self-Implementing Cleanup – 40 CFR 761.61(a)

Performance-Based Cleanup – 40 CFR 761.61(b)

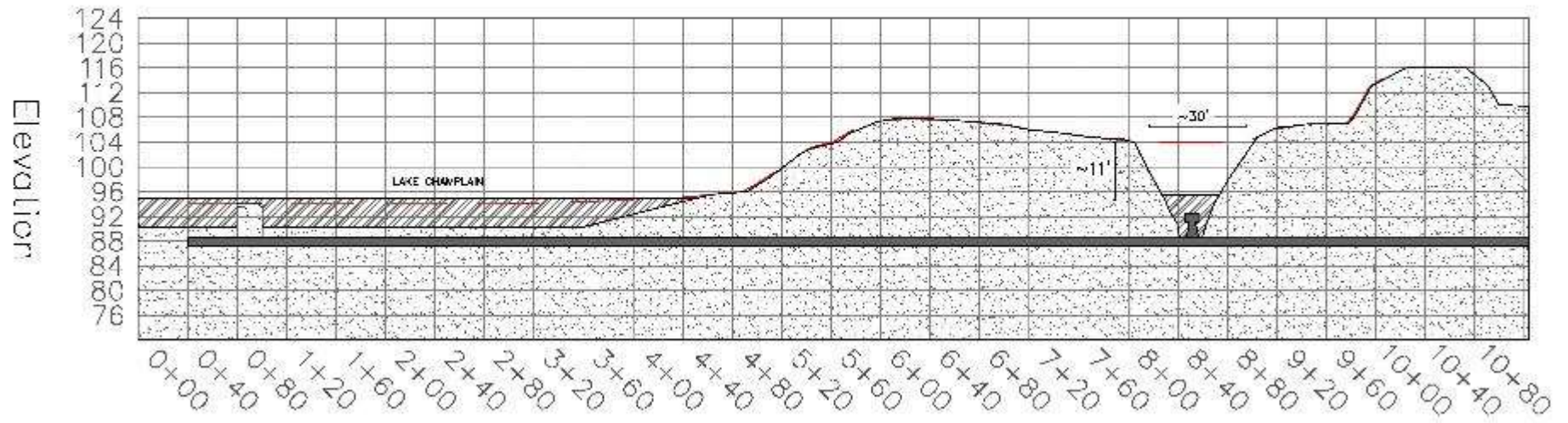
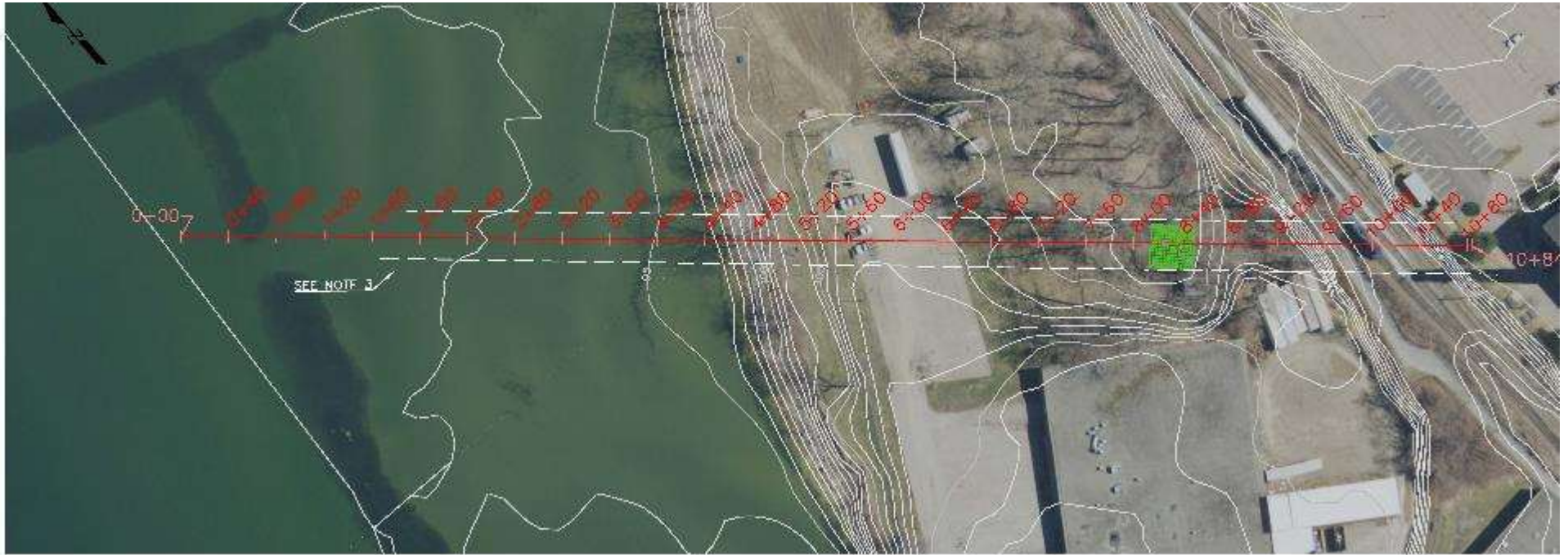
Risk-Based Cleanup – 40 CFR 761.61(c)



Self-Implementing & Risk-Based Cleanup



Performance-Based and Self-Implementing Cleanup



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1 0 0 % E M P L O Y E E O W N E D

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: https://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title40/40cfr761_main_02.tpl

New Jersey Institute of Technology PCB Brochures, September 18, 2012: <https://www.njit.edu/tab/pcb>

Questions?

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