

History of AACM Method

- City of Fort Worth XL Project 1997 expanded use of emergency provision of Asbestos NESHAP for substandard structures – Phased approach
- Cow Town Inn City of Fort Worth withdrew XL submittal 2003
- EPA Region 6 and ORD continued dialogue for next steps – development of Alternative Asbestos Control Method Research

"Wet Method not AACM"

The AACM is not the <u>"Wet Method or Fort Worth Method"</u>

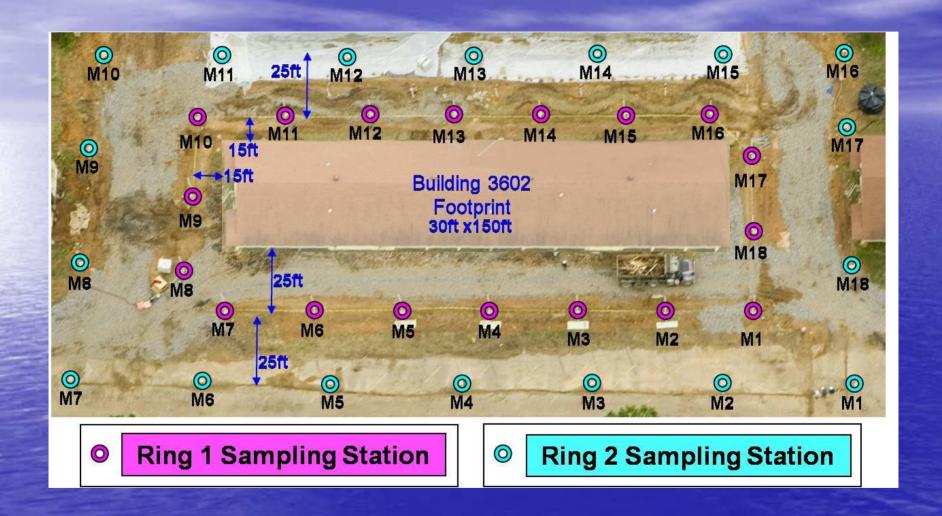
- Emergency Provision of Asbestos NESHAP
 - Provides owners of structures in "imminent danger of collapse" use of water, all asbestos remains, during demolition with notice to State

AACM1

- Fort Chaffee, AR
- Identical buildings (one by AACM other by NESHAP)
- Positive Asbestos wall systems and VAT
- Soil



Reference area for visual estimation of relative component percentages









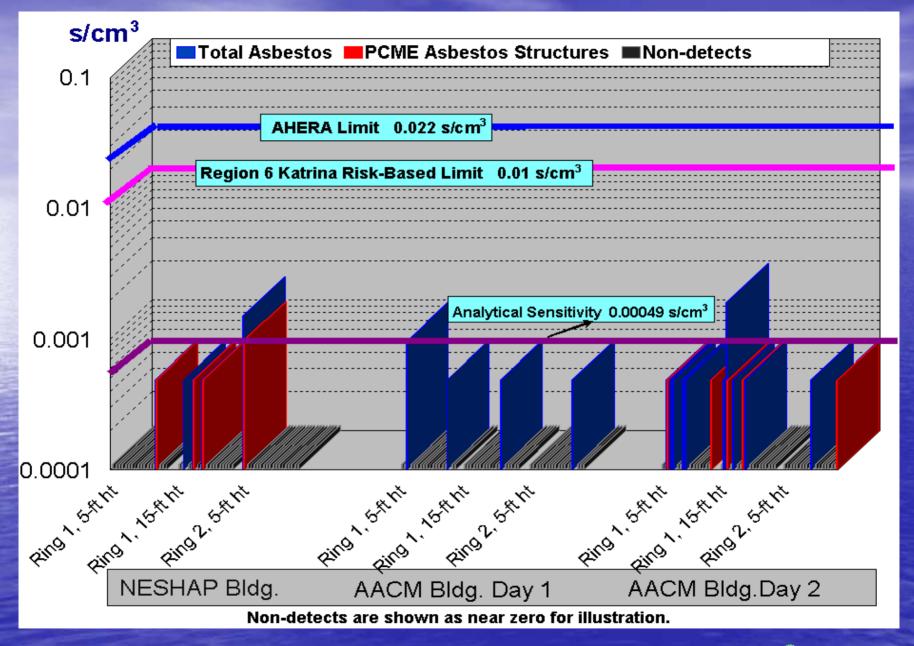




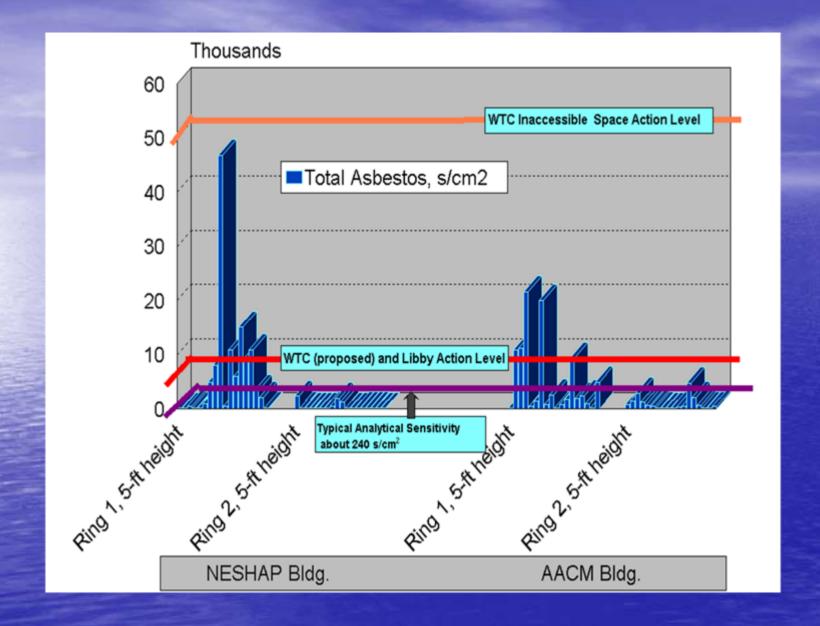




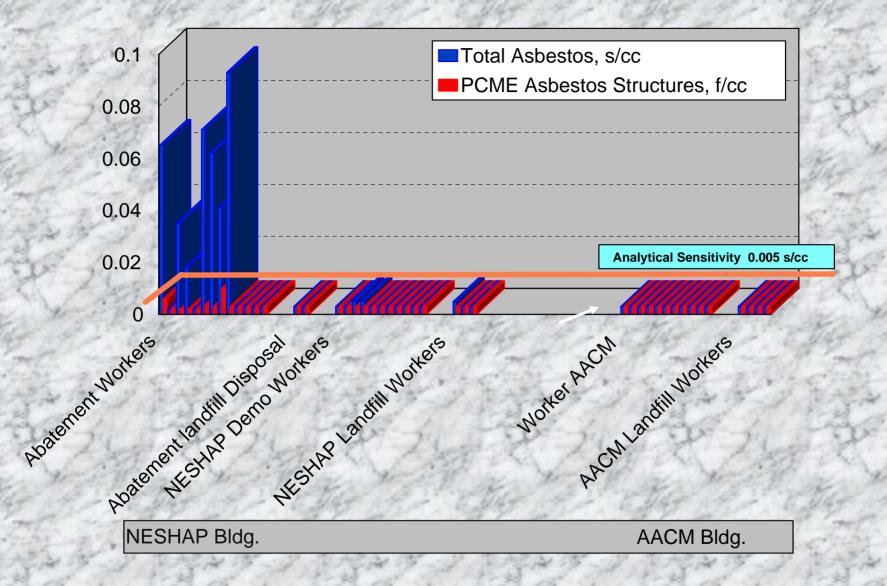




AACM1 Airborne Asbestos, s/cm⁹

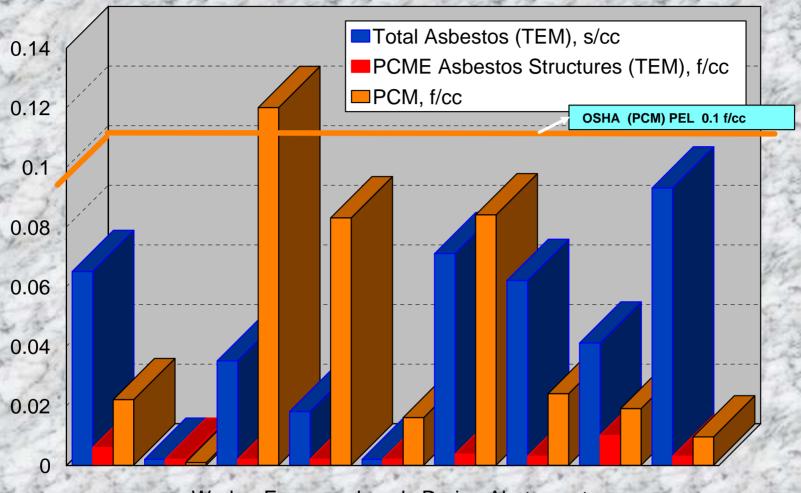


AACM1 Dust Asbestos Loading, s/cm2

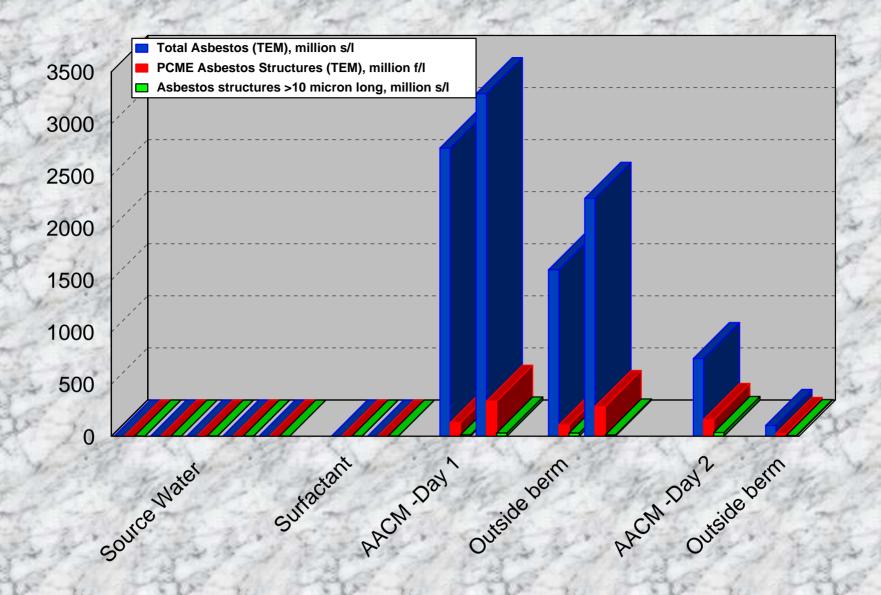


AACM1 Worker Breathing Zone Asbestos, s/cm³

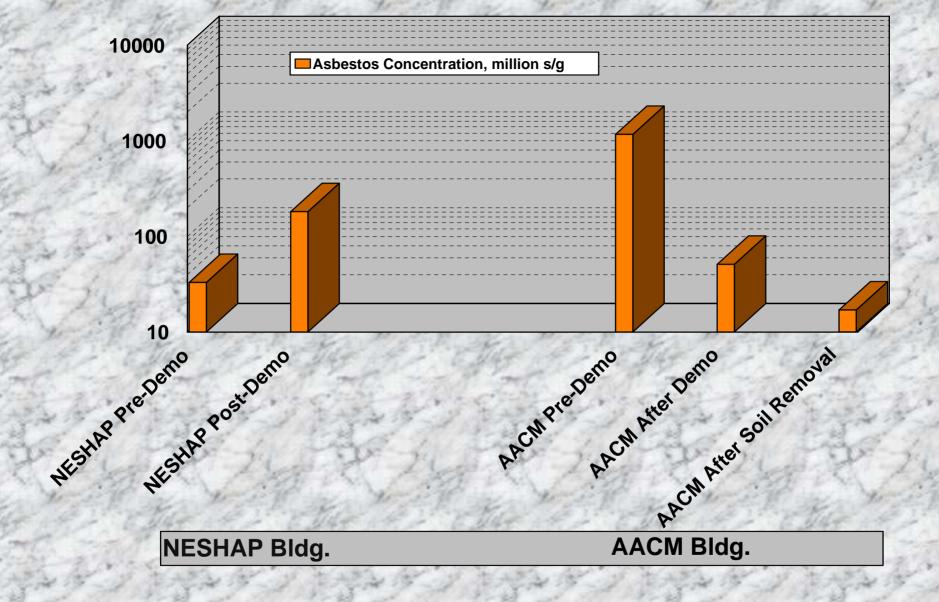
Worker Asbestos Fiber/Structure Concentrations During Abatement of NESHAP Building at Fort Chaffee



Worker Exposure Levels During Abatement



AACM1 Water Asbestos, Ms/I



AACM1 Mean Soil Asbestos, million s/g

AACM vs NESHAP at AACM1 Research

- Over six times faster
- Cost half as much
- Less asbestos in final soil
- Lower worker breathing zone asbestos levels

AACM 2

- Fort Chaffee, AR
- Single building in danger of imminent collapse
- Transite siding
- Pavement





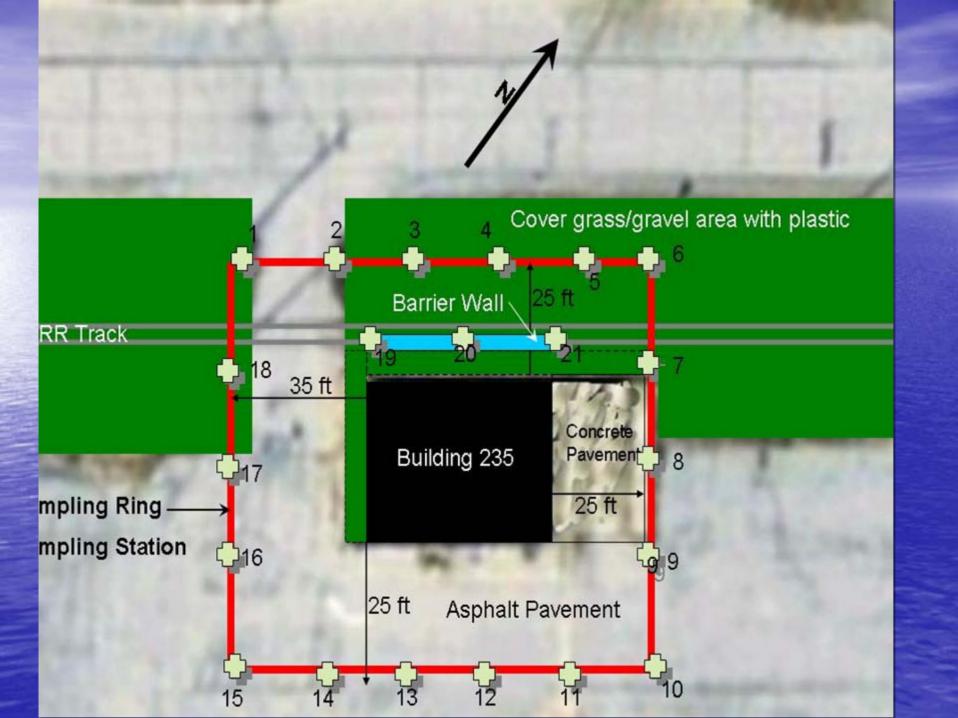


























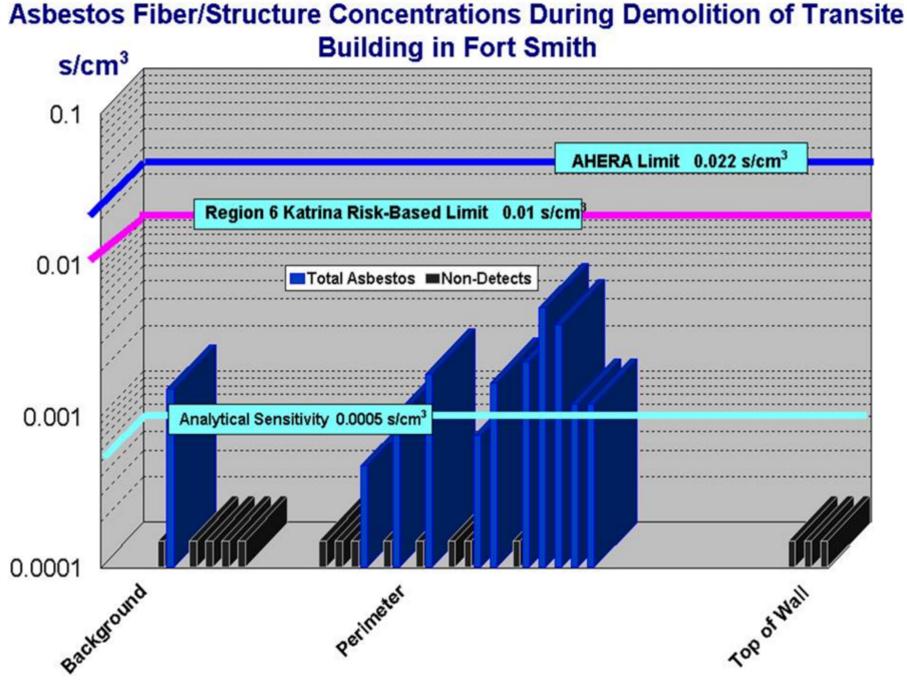




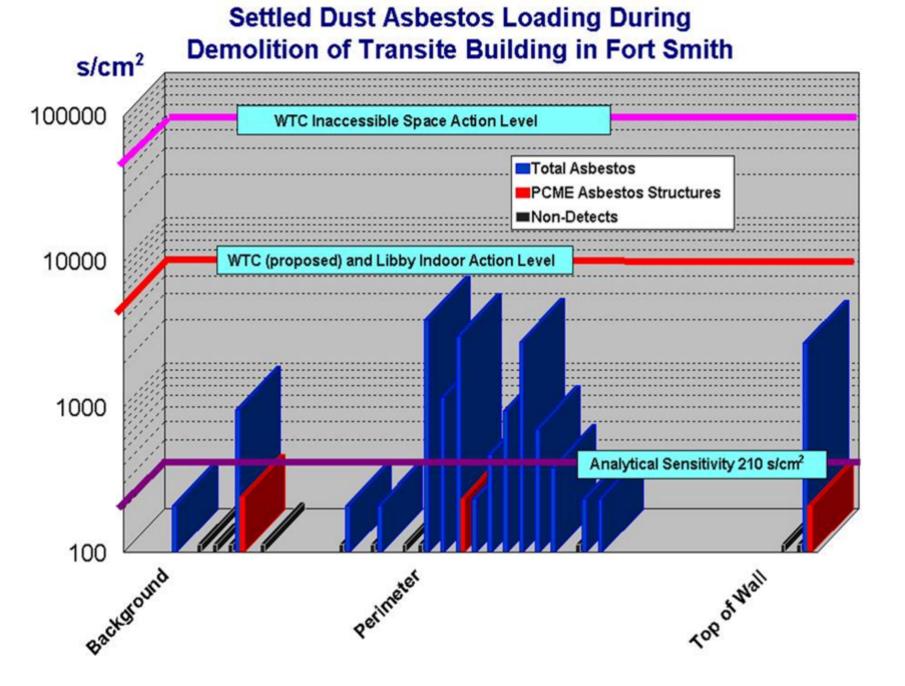




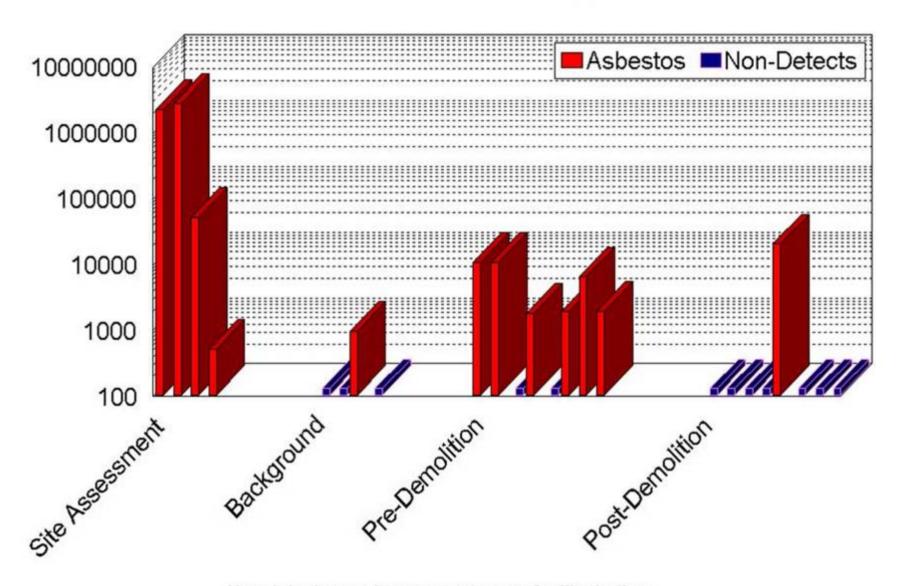




Non-detects are shown as near zero for illustration.



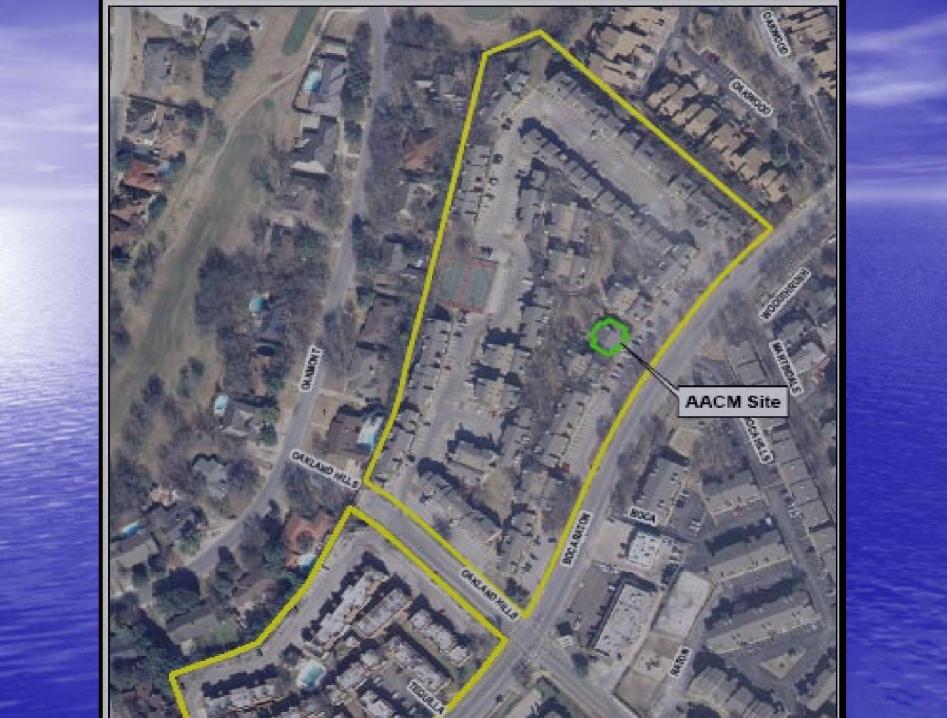
Pavement Asbestos Loadings at the Transite Building, s/cm²



Non-detects are shown as near zero for illustration.

AACM 3

- Fort Worth, Texas
- Single building
- Popcorn Ceiling, troweled on surfacing on walls
- Pavement and soil

































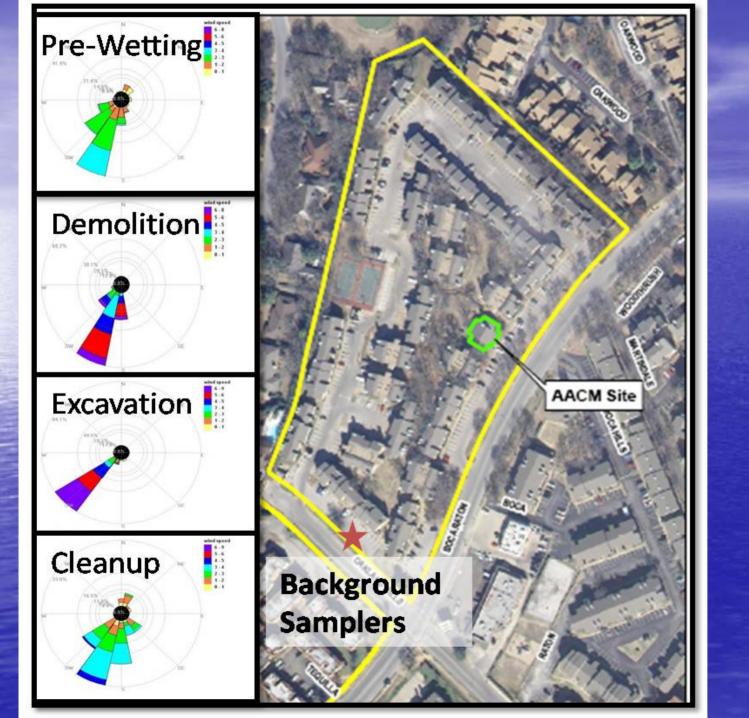


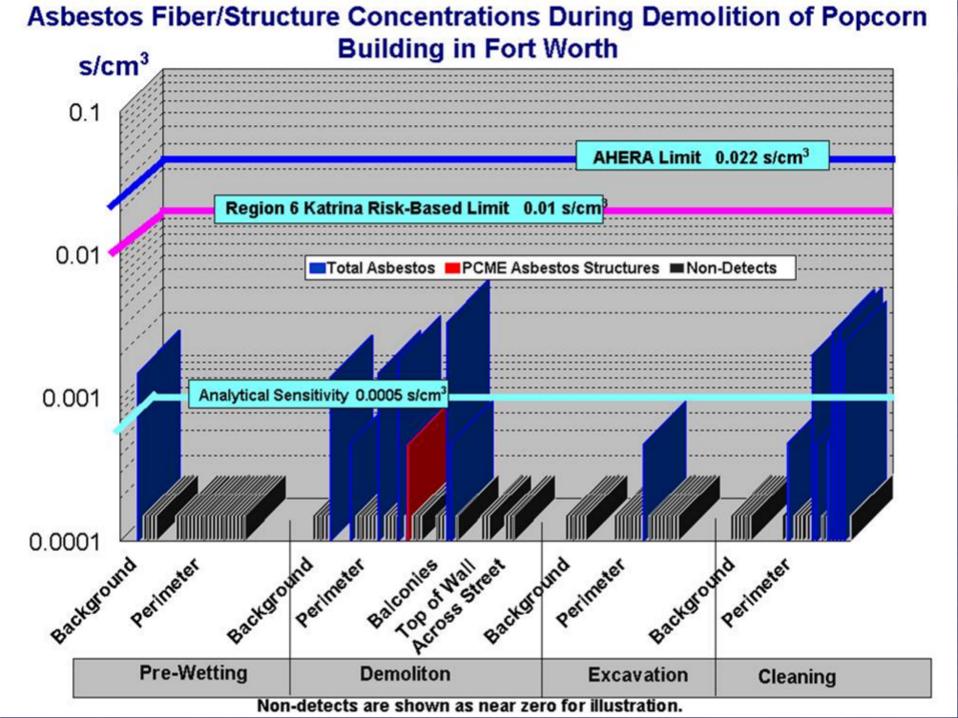


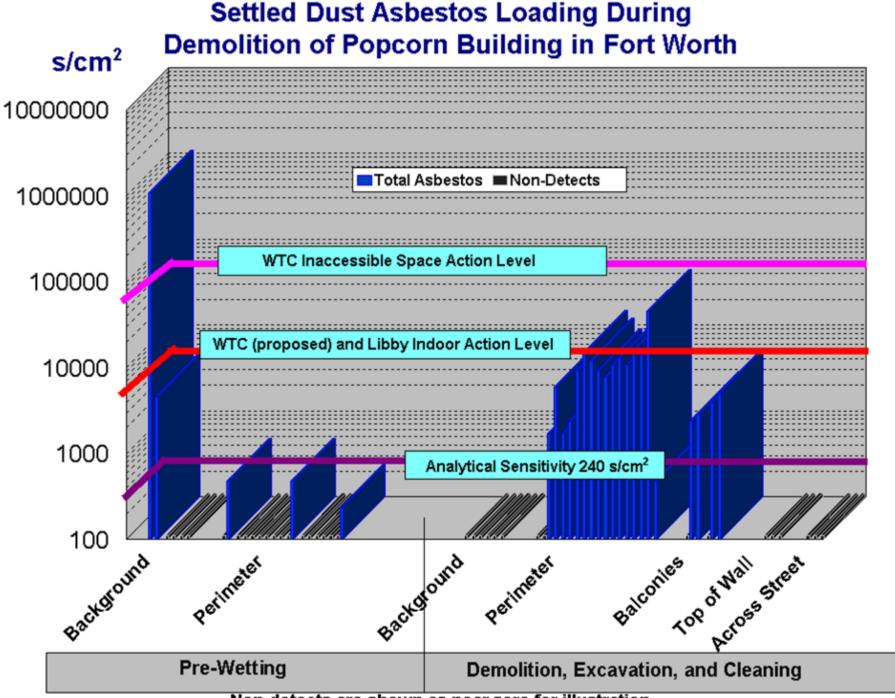






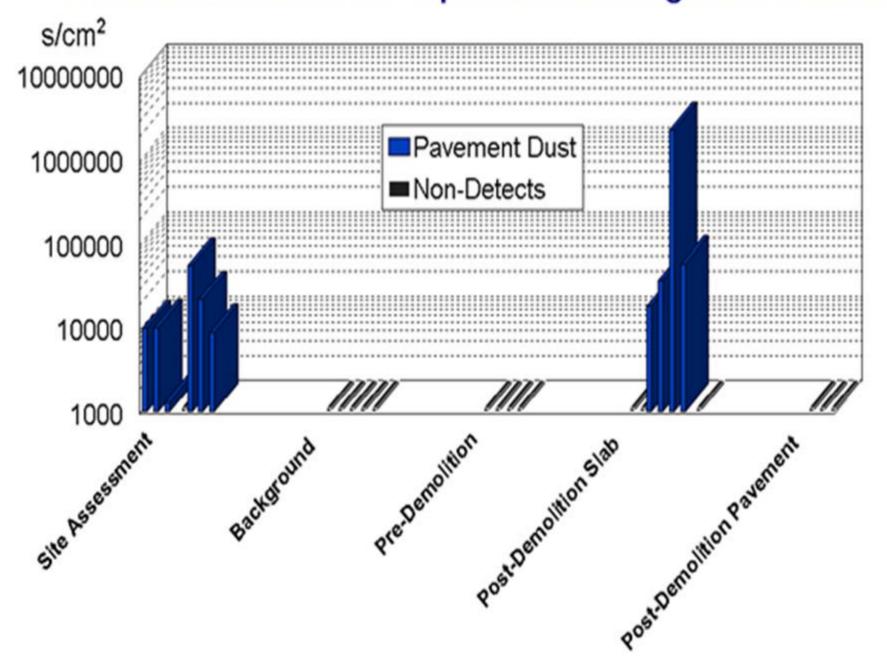




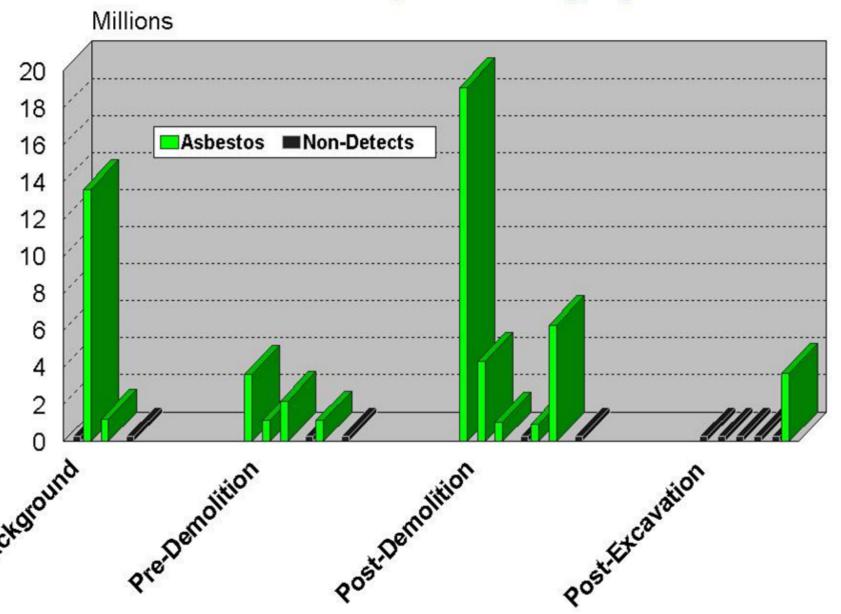


Non-detects are shown as near zero for illustration.

Pavement Dust at Popcorn Building Demolition

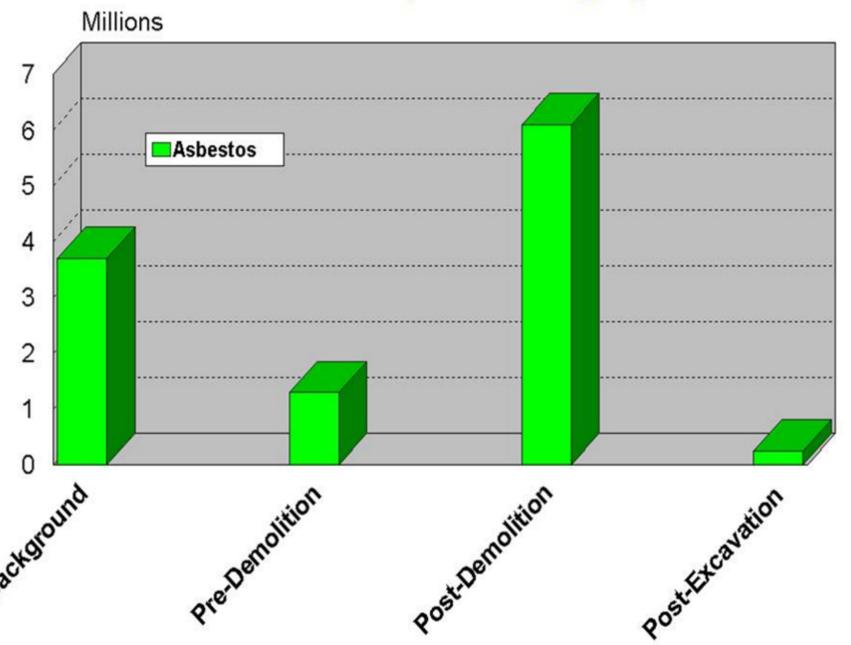


Soil Asbestos Concentrations (TEM) During Demolition of Popcorn Building, s/g



Non-detects are shown as near zero for illustration.

Mean Soil Asbestos Concentrations (TEM) During Demolition of Popcorn Building, s/g



COMPARISON OF AACM1,2, and 3

All asbestos has been removed before a NESHAP demolition....?

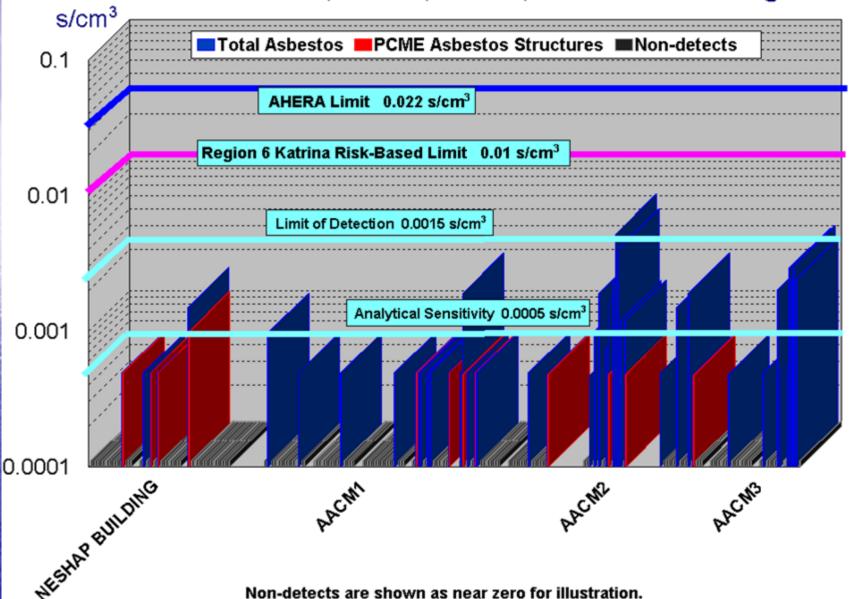
Material

- Joint Compound
- Surfacing
- VAT
- Pipe wrap
- Caulk
- Roofing
- Mastic

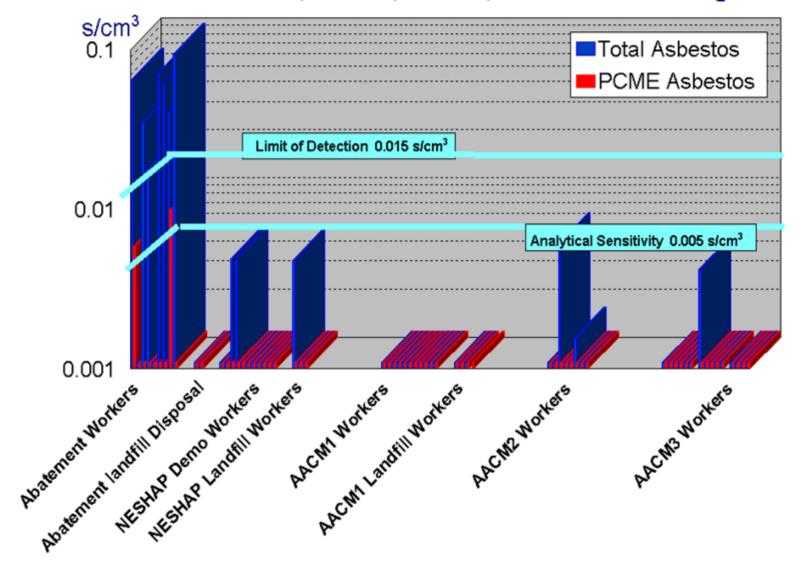
Amounts

- Less than 160 sq ft
- content less than1.5%
- Less than 260 If
- Less than 35 cu ft

Airborne Asbestos Concentrations (TEM) During Demolition of AACM1 NESHAP, AACM1, AACM2, and AACM3 Buildings

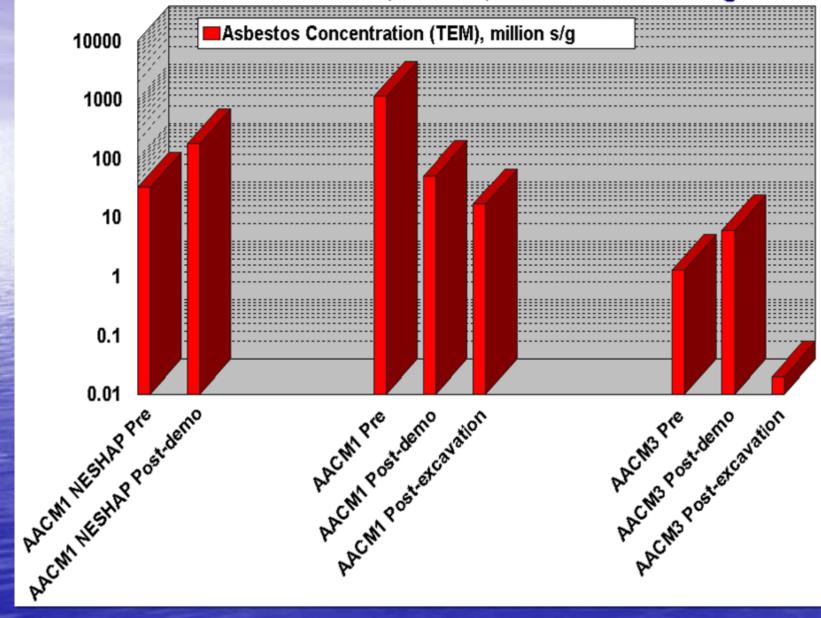


Worker Breathing Zone Asbestos Concentrations (TEM) During Demolition of AACM1 NESHAP, AACM1, AACM2, and AACM3 Buildings

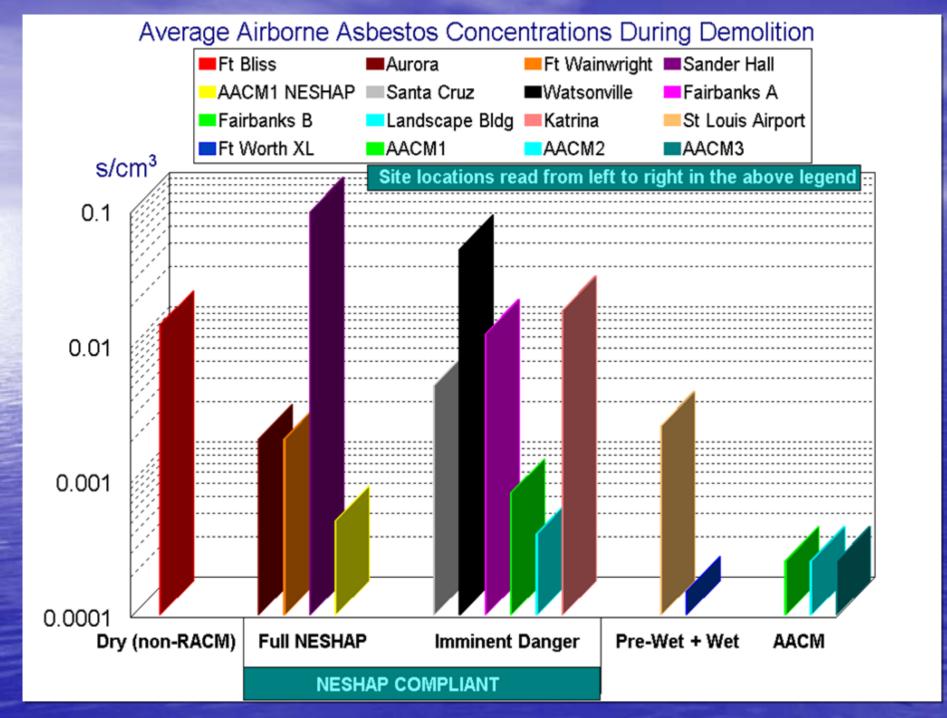


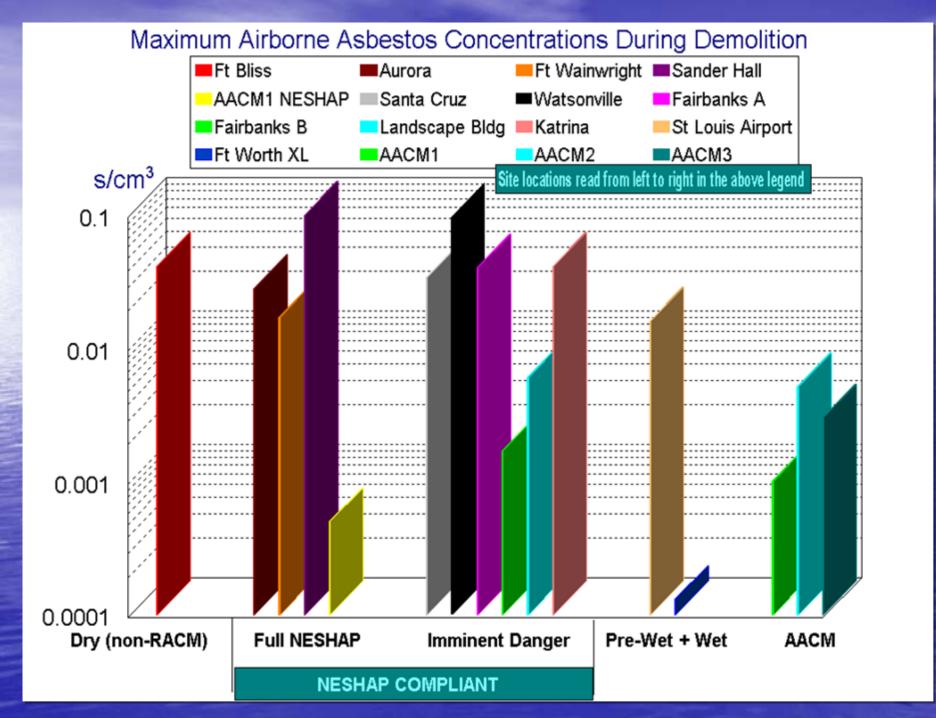
Non-detects are shown as near zero for illustration.

Mean Soil Asbestos Concentrations (TEM) During Demolition of AACM1 NESHAP, AACM1, and AACM3 Buildings

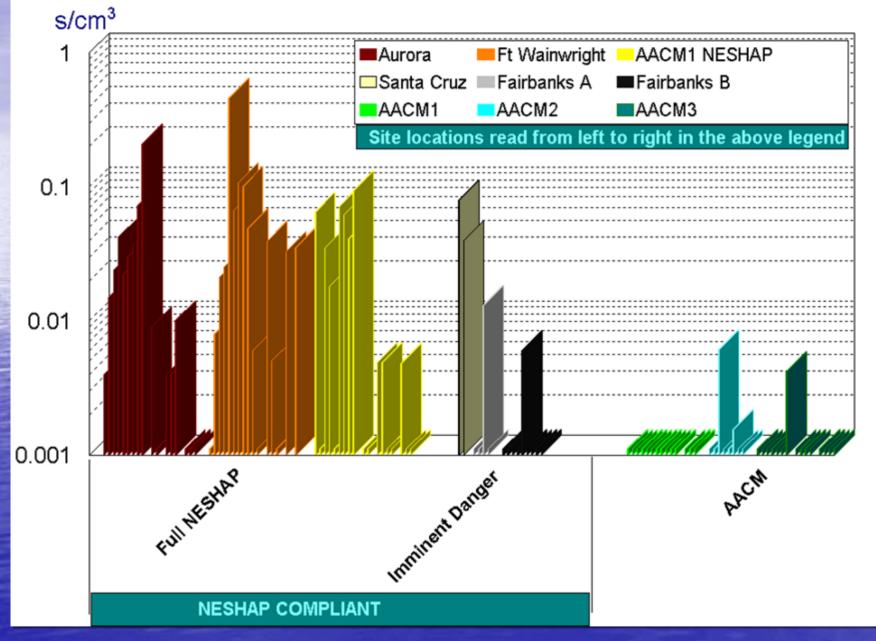


Other Demolitions that have been monitored by TEM





Worker Breathing Zone Asbestos Concentrations (TEM) During Demolitions and Disposal of Asbestos-Containing Buildings



EPA Responsibilities To Public

- EPA Research driven by questions raised on issues and concerns raised internally as well as externally to the Agency. (Champion Necessary)
- Under the Clean Air Act Asbestos NESHAP first air rule written in 1973, amended in 1990
- CAA requires Reg review every 5 years has it run it's course, what changes are necessary, etc.?

Next Steps

Peer Review Final Report – inclusion of panel comments, public comments and summary report of 2-day meeting

EPA receipt of Final Peer Review Report

Next Steps-Continued

- EPA Finalizes AACM#2 and AACM#3
 Research Reports Release of Peer
 Review Report and Final EPA Reports –
 occur simultaneously –posted on web
- Agency will prepare for internal discussions on next steps once Science completed.

Next Steps - Continued

- What should EPA do next? Open Forum Discussions with outside parties: States, Tribes, Municipalities, Counties, Redevelopers, trainers, asbestos workers, unions, environmental groups, interested stakeholders, federal partners, etc.
- Should Asbestos NESHAP be reviewed? Should these discussions occur? If so, how should these discussions be convened? When? Where?

Questions??

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