

Why Are You Here?



You need to know -

- Where there is (or may be) asbestoscontaining material (ACM) in your facility?
- How to care for ACM (do's and don'ts)?
- How to recognize problems with known or suspect ACM?
- What to do if there is a problem?
- Who to notify?
- How do you get information on hazardous materials (e.g., asbestos)?

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What are we going to cover?

- Asbestos and its various uses and forms
- Health effects associated with asbestos exposure
- Locations of ACBM throughout each school building
- How to recognize damaged, deteriorated, and delaminated ACBM
- Name and telephone number of the LEA designated person Peter Swerzenski – 554-2420
- Availability and location of the management plan

Keep Awake – Quiz at the end!

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"Quiz" – Complete (turn-in at end of the Hazard Communications section)

- Print (so we can read it) and sign your name
- If you know it, print your SAISD 7-10 digit number (if you know it)
- Circle the correct answer for each question
- Pass in the completed test at the end of the training

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Pre-Quiz Asbestos Awareness????

- Asbestos is made in a chemical plant.
- Bound asbestos is called "friable" and is usually not a problem.
- After you are trained you can identify asbestos-containing material (ACM).
- Health effects of asbestos usually appear a few days after exposure.
- The campus asbestos management plan (AMP) is issued to, and the property of the principal or facility manager.
- The AMP contains the results for all asbestos sampling performed at the campus.

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Pre-Quiz Asbestos Awareness

- Asbestos is made in a chemical plant. <u>NO It is a mineral and occurs naturally in the soil.</u>
- Bound asbestos is called "friable" and is usually not a problem. <u>NO bound asbestos is "non-friable".</u>
- After you are trained you can identify asbestos-containing material (ACM) by looking and feeling it. <u>NO – Asbestos fibers must analyzed following specific laboratory procedures.</u>
- Health effects of asbestos usually appear a few days after exposure.
 NO the effects take 10 to 40 years to manifest themselves!
- The campus asbestos management plan (AMP) is issued to, and the property of, the principal or property manger. NO – The AMP issued to the campus and must be available upon request. It is normally kept in a red binder in the Library.
- The AMP contains the results for all asbestos sampling performed at the campus. YES – FINALLY!

Background

- "asbestos" word is Greek
 - "miracle mineral" softness, flexibility and its ability to withstand heat
- Not widely available until the late 1800s
 - major deposits were found in Canada.
- World Wars I and II
 - military used asbestos extensively
- 1970's Voluntary reduction in the use of asbestos

You can still buy ACM products today!

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Background

- AHERA Asbestos Hazard Emergency Response Act – 10/30/1987
 - Environmental Protection Agency (EPA) rule that regulates asbestos-containing materials (ACM) in schools
 - Texas Department of State Health Services (TDSHS)
 - State agency that oversees asbestos activity in Texas

SAISD Asbestos Designated Person:

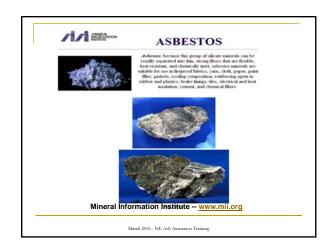
Peter Swerzenski @ 210-554-2420 / pswerzenski @saisd.net

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Characteristics of Asbestos

- Fibrous, naturally occurring mineral
 - □ Colorless, Odorless, & Tasteless
- Magnesium, silicon & other elements
- Three main types of asbestos
 - Chrysotile (white), 95% (insulation, fire & sound-proofing)
 - Amosite (brown), 3% (TSI & ceiling tile)
 - Crocidolite (blue), 2%

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Uses of Asbestos

- Thousands of asbestos-containing materials (ACM) 1945 to 1980 ACM used in buildings:
 - Fireproofing material -- Usually spray-applied to steel beams (Sept 11, 2001 Twin Towers in NYC)
 - Insulation material -- Usually spray-applied, trowel-applied, or manually installed after being preformed to fit surfaces such as pipes (old pipe elbows below some MS & HS)
 - Acoustical or soundproofing material -- Trowel- or sprayapplied (may include plaster ceilings & walls but to date no ACM plaster found)
 - Miscellaneous materials -- roofing felts, exterior siding and roofing shingles, wallboard, pipes for water supply, combustion vents, and flues for waste gases and heat etc. (including 9" floor tile with black glue / mastic)



Important Definitions

- Asbestos-Containing Material (ACM)
 - Material / product containing > 1% asbestos fibers
- Asbestos-Containing Building Material (ACBM)
 - Building materials containing > 1% asbestos fibers
- Friable ACM

 Any material that contains more than 1% asbestos (by weight or area) and can be crumbled, pulverized, or reduced to powder by the pressure of any ordinary human hand

Note: Non-friable ACM may become friable when it becomes damaged to the extent that it can be crumbled, pulverized, or reduced to powder by hand pressure when dry.

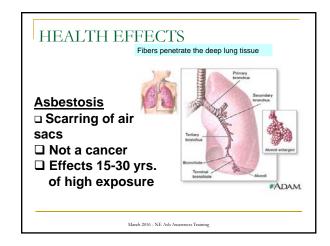
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Asbestos Key Points (Terms)

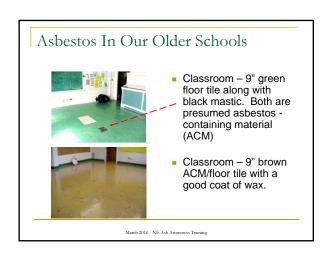
- Fiber three times as long as it is wide
 - □ Asbestos Fibers 0.5 micron width
 - □ Human hair is 100 microns in width
- Environmental Protection Agency (EPA)
 "clearance" asbestos limit in air
 - 0.01 fibers per cubic centimeter of air or 70 structures
- Occupational Safety and Health Administration – Occupational Rules
 - □ See <u>www.osha.gov</u> for additional information

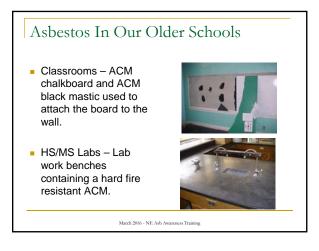
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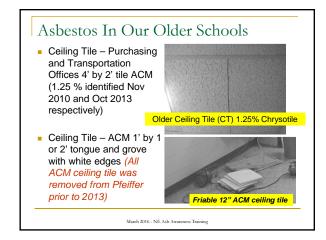


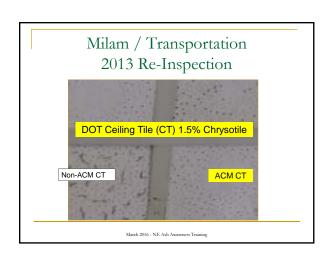
HEALTH EFFECTS Lung Cancer Cells divide without stopping Effects 10 plus yrs. Mesothelioma Effects 20 - 40 yrs. Rare fatal cancer that affects the lung lining LUNG CANCER - 50 X Increase when add Smoking + Asbestos

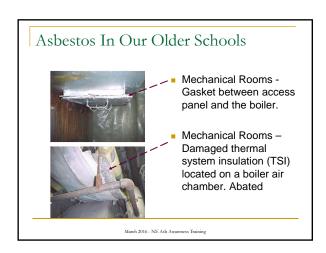
EPA Policy – Asbestos Control in Schools Asbestos is hazardous. The risk from asbestos depends upon exposure. Average asbestos levels in schools are very low so the health risk is low. Removal not always best. The EPA only requires asbestos removal to prevent significant public exposure to airborne asbestos fibers during building demolition or renovation activities. Identified asbestos will pose little risk if it is well maintained under an O&M program. EPA requires a pro-active, in-place management program whenever ACBM is discovered and is not removed.

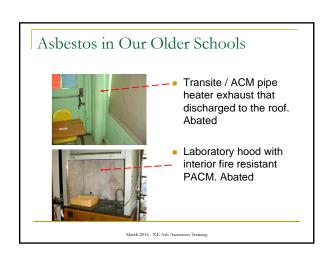


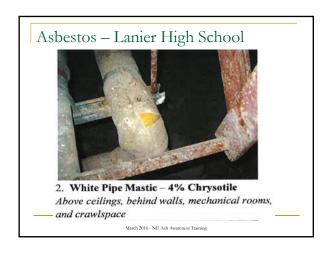


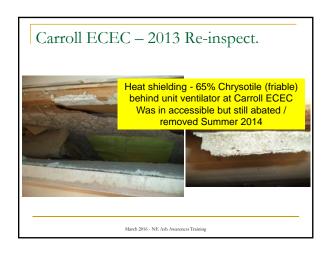


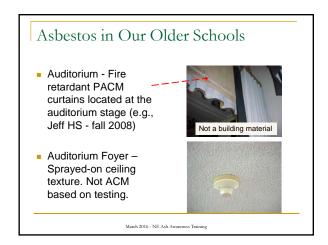


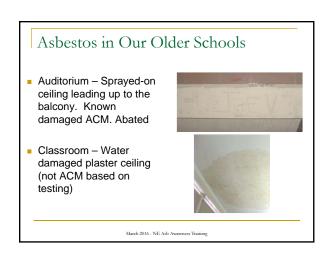


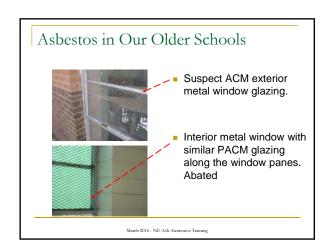


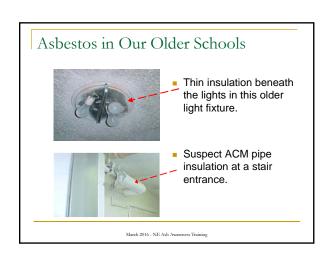




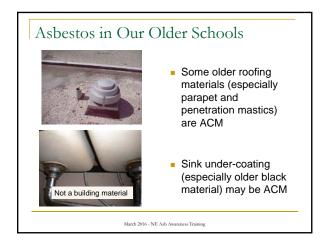


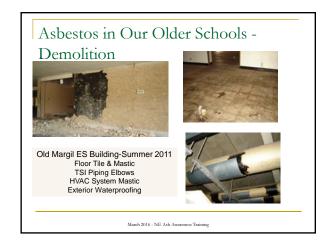


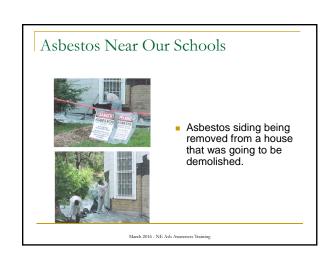




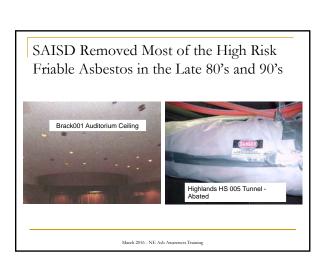












Campus Asbestos Management Plan

Red Binder - Library or Administration Offices

- □ Tab 1: AMP notifications
- □ Tab 2: Latest 3-year inspection
- □ Tab 3: Six-month surveillance reports
- □ Tab 4: Asbestos sample reports / log
- □ Tab 5: O&M training certificates
- □ Tab 6: Response activities
- □ Tab 7: A CD with the all old documentation

Updated by the Environmental

(Call Rick or Pete @ 554-2420

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Campus	Building	Asbestos-Containing Material (ACM) Description	Material Category	Material Location	Asbestos Content	Quantity	Units	of 201	
116	1915, 1923 and 1956 bidgs.	9" n 9" Brown Floor T <i>de &</i> Black Floor Martic tudements	Misc	Room A201. Under Unit Vestilators, Second floor Classrooms under 12" Tau Beige Floor Tile with Biown and White Speck	37%	4.2%	52	Good	
116	1915, 1923 and 1956 bidgs.	12" x 12" Tan Beige Floor Tile with Brown and White Speck and Black Martic undersorts	Miss	Over I' X 9'Floor Tile on the Second Floor and Over Wood Subflooring in Majority of Class Room!	25	13,890	SF	Good	
116	1915, 1923 and 1956 bidgs	Black Ministree Barrier	Nor AHERA	Behind Etterior Bricks	Armel	12,000	SF	Good	
116	1915, 1923 and 1956 bidgs.	Block Slate Challabourds	Miss	Main Original Building Only, One Clauseons on the First Floor and All Clauseonso on the Second Floor	NAD	700	SF	Good	
116	1915, 1923 and 1956 bldgs.	Chall: Board Martic	Minc	All Other Class Rooms Excluding Mem Original Building	Armed	3,350	SF.	Good	
116	1915, 1923 and 1956 bidgs.	Washer Chrisp	Misc	Wandow Extensors (Court Yard Side)	2%	1.210	ir	Good	
Notes.	Between 1/1744 and 17321/4 allered 3400 ft.0 of 12** Termonome from 100, 100, 4132 and 4313. ACRE Substitute containing material (SCM) is defined by the EP4 as containing more than (P) 1% adhered by the Substitute (SCM) and the EP4 as containing more than (P) 1% adhered by Tourised Light Microscopy). Acres Acres ACRE Acres Acres								
	PC_Point Counting (PC) is related on IPA Method 600/R-92/116 and 600/M-42-000 for further quentifying the amount of asbestos in a sample. 9F (quare feet URK)/Unitroom (quantity, status, location, etc.)								

Prohibited Actions – <u>On CD</u> – Tab7 (Chapter 12 of original AMP)

- Do not drill holes in, or sand / cut on ACM (e.g., 9" floor tile and/or black mastic)
- Do not hang plants/pictures on ACM covered structures
- Do not sand asbestos-containing floor tile
- Do not install curtains, drapes, or dividers in a way that may damage ACM

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Prohibited Actions (continued) Do not dust floors, ceilings, moldings or other surfaces in an asbestos contaminated environment. Do not use an ordinary vacuum to clean up asbestos debris Do not remove ventilation system filters dry Do not shake ventilation system filters. Asbestos HEPA Filter Vacuum

Management Plan — You Can Remove suspect or known ACM roofing material using normal demolition protocols and safeguards The ACM must be kept wet and no visible emissions are permitted Work must be performed under the direction of an on-site NESHAP trained competent person





Preventing Exposure

- Know where the ACM is in your school
 - Asbestos Management Plan (Tab 2) Red binder in library / admin. (or ?)
- Know what tasks are preformed on or near ACM / ACMB
- Report Damaged ACM to your Supervisor

Questions: Call 210-554-2420

- Peter Swerzenski SAISD Designated Person
- (Ismael) Rick Pena SAISD Asbestos Technician

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Six Month Surveillance Report

- Head Custodian (HC) performs check
 - April 13th and October 13th
 - Visually inspect all accessible areas (check AMP)
 - Create work orders for damaged or broken ACM
- HC record findings on Six Month Surveillance Report
 - □ Complete the form (include areas, work order #s, etc.)
 - Damaged areas must include a Work Order #
 - □ Do *NOT* include IAQ issues!!!
- HC signs, sends and files report
 - E-mail or Fax copy to Rick Pena or Pete Swerzenski @ 210-271-3330
 - □ Place original completed report in campus AMP, Tab 3

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Survey Date:			
Building / Room #: Main 1972 Bldg. Basement Ch	iller: TSI on pipes		
OBSERVABLE CHANGES: YES NO			
Building / Room # Main 1972 Bldg. mechanical	rooms and above ceiling: white mastic or		
īberglass insulated pipes	AMP Tab 3 - Specific inspection		
OBSERVABLE CHANGES: YES NO	form for each campus Can modify form to suit campus needs		

IAQ Issues Not Included...BUT Ensure Routine IAQ Checks Are Performed Walk-through all spaces: storage rooms, <u>PORTABLE BUILDINGS</u>, unused spaces, storage / remote blgs. closets, shower & locker areas, known problem areas, <u>MECHANICAL ROOMS</u>, etc. High humidity, condensation, leaks? Disconnect hoses from sinks (including RTUs) Portable AC units, heaters, fans, etc. and lights off Areas secured Call-in IAQ / Mold Issues to Dispatch 354-9305 Stop water source / dry area ASAP





- Response Activities
 - Operations & Maintenance
 - Contract Asbestos Work
 - Asbestos abatement and management contractors, TDH inspectors, and us!



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What Can You Expect (continued)

- RFCI removal method
 - Approved for small floor tile and mastic work
 - Approved for demolition tile and mastic work
- RFCI requirements
 - Containment & PPE not required
 - Wet methods, bag waste, DSHS not.. for larger jobs





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2016 - Asbestos Abatement Activities

- YMLA (WW White) boiler -June 2016
- Navarro Windows June July 2016
- Lamar ES Windows March 2016
- Longfellow MS 4 CR FT Summer 2016
- Madison ES 2 CR FT Summer 2016
- Graebner ES 1 CR FT -Summer





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2015 – Bond Asbestos Abatement & Demolition Activities

Jefferson HSLongfollow MS



M. LONG NEALL T.

What did we cover?

- Asbestos and its various uses and forms
- Health effects of asbestos exposure
- Locations of ACM at our Campuses
- Recognition of damaged ACM
- The SAISD Designated Person:
 - □ Pete Swerzenski @ 554-2420
- Each school's asbestos management planIn the campus library
- Recent Asbestos Activity



