

**ADDENDUM #1 ASBESTOS INSPECTION
2223-12 REGENERATOR ERV INSTALLATION AT CHS**

ChemScope INDUSTRIAL HYGIENE • ENVIRONMENTAL CHEMISTRY

15 Moulthrop Street, North Haven CT 06473-3686 • Phone (203) 865-5605 • www.chem-scope.com

Richard Clavet
Cheshire Public Schools
29 Main Street,
Cheshire CT 06410

11/9/2022

**ASBESTOS PRE-RENOVATION INSPECTION
CHESHIRE HIGH SCHOOL – 525 SOUTH MAIN STREET, CHESHIRE CT
CHS REGENERATOR REPLACEMENT PROJECT
CS# 207-776, 11/8/2022, PAGE 1 OF 4**

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- Certificate of Analysis Report (3 pages)
- Chain of Custody Document (2 pages)
- Sample Location Drawing (1 page)
- Inspector Qualifications and Laboratory Certifications (5 pages)

Report Distribution:

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File Location:

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**ASBESTOS PRE-RENOVATION INSPECTION
CHESHIRE HIGH SCHOOL – 525 SOUTH MAIN STREET, CHESHIRE CT
CHS REGENERATOR REPLACEMENT PROJECT
CS# 207-776, 11/8/2022, PAGE 2 OF 4**

INTRODUCTION

EXECUTIVE SUMMARY:

Asbestos containing mudded pipe fittings were detected within subject rooms, they are not in the scope of the renovation plan. If the plan is changed and the fittings are to be distributed, they will need to be properly removed (abated) and disposed of prior to any renovation that would disturb these materials. Work must be done using proper procedures and practices with properly trained individuals. Please see the Recommendations Section for details.

SITE DESCRIPTION:

The Cheshire High School is a two-story building with a total area of about 229,061 sq ft constructed of steel and masonry. There are two stories of classrooms and offices, the lower level of which includes custodial work areas, recreational areas, the boiler room, shop areas, gymnasium, and the auditorium. The original building was constructed in 1951-1955 totaling about 59,516 sq ft. In 1956, 1961, 1971 their additions put on totaling about 170,000 sq ft. In 1975 a portable building totaling 800 sq ft was added.

PURPOSE AND SCOPE OF INSPECTION:

Asbestos Pre-Renovation Inspection as directed by Daniel J. Bombero, Jr. We understand that there are plans to remove/replace existing regenerator units and ductwork at the subject school. It is our understanding that the renovation plans include the removal of the existing ductwork from rooms CS-38, CS-39, CS-41, CS-42, CS-43 Boys Room, CS-44 Girls Room, and CS-45 Mechanical Room, as well as removal of other mechanical and electrical components from CS-45 Mechanical Room. We understand that you would like ChemScope to conduct the required asbestos pre-renovation inspection prior to the start of any work.

No other materials or areas were in the scope of the inspection.

TEST PARAMETERS:

This is an Asbestos Pre-Renovation Inspection which is required by the EPA NESHAP Regulations for Building Renovations and Demolition, 40 CFR PART 61 intended to thoroughly inspect the affected part of the facility for asbestos prior to the renovation. The inspection is also needed for compliance with OSHA 1926.1101 and CT DPH 19a-332a-1 through 16.

Sampling completed following the Methods outlined in ChemScope QA Plan, which is based on AHERA 40 CFR Part 763. EPA Wet Methods are used to prevent fiber release. The building materials sampled are analyzed at our laboratory by EPA method 600/R-93/116. This is currently the approved EPA Test method, which uses Polarized Light Microscopy with Dispersion Staining. The laboratory is accredited by NIST/NVLAP and AIHA Lab Accreditation Program, LLC, and is a Connecticut Approved Environmental Laboratory for Asbestos Analysis.

This investigation and the information provided in this report depend partly on background information provided by the client. This report is intended for the use of the client. The scope of services performed may not be appropriate for other users and any use of this report by third parties is at their sole risk. This report is intended to be used in its entirety. No excerpts may be taken to be representative of this report.

**ASBESTOS PRE-RENOVATION INSPECTION
 CHESHIRE HIGH SCHOOL – 525 SOUTH MAIN STREET, CHESHIRE CT
 CHS REGENERATOR REPLACEMENT PROJECT
 CS# 207-776, 11/8/2022, PAGE 3 OF 4**

INSPECTION REPORT SYNOPSIS

LOCATION NAME AND ADDRESS: Cheshire High School, 525 South Main Street, Cheshire CT

INSPECTION DATE(S): 11/8/2022

QUALIFICATIONS: The Inspection was conducted by Ziyang Wang. Mr. Wang is certified as follows:

- EPA and State of Connecticut Accredited Asbestos Inspector.
- State of Connecticut Licensed Asbestos Inspector (#000876)
- State of Connecticut Licensed Asbestos Project Monitor (#000755)

SITE OBSERVATIONS: On site, we met with custodian Eric who showed us the subject areas. We made the following observations:

- The subject building was unoccupied during the inspection.
- The floors, walls, and ceilings within the scope were intact.
- Rooms CS-43 and CS-44 had mudded fittings on fiberglass insulated lines. These are not scheduled to be disturbed by the renovation project, but they are in the vicinity of bare metal ducts which are to be removed.

FINDINGS: The following asbestos containing materials (ACM) were detected within the subject rooms, but were not scheduled to be disturbed in the scope of the renovations:

<u>MATERIAL</u>	<u>LOCATION</u>	<u>~FOOTAGE</u>
Gray crumbly ACM mudded fitting insulation (from pipe)	CS-44 CS-43	<3 SF (2 fittings) <3 SF (2 fittings)

The following is a summary table of the materials that tested as non-Asbestos Containing Material (ACM) (<1%) within the Scope of Work (not already summarized above):

Location	Material	Sample #'s	Findings
CS-45	Black and red brittle gasket (from condensate pump)	207-776-1,2	No Asbestos Detected
CS-43, 44	Light gray crumbly 2x2 suspended ceiling tile with white face (from ceiling)	207-776-3	No Asbestos Detected
Throughout the scope	White crumbly taping compound on white crumbly sheetrock with brown fibrous paper backing (from wall)	207-776-4,5	No Asbestos Detected
Throughout the scope	Gray granular cinder block with light gray hard mortar (from wall)	207-776-6,7	No Asbestos Detected

Confirmatory samples only. Based on the Asbestos Management Plan and past sample results.

LIMITATIONS OF INSPECTION

It is important to note that every effort is made to detect asbestos (ACM) in the path of the renovation by our inspectors. It is not practical or prudent to demolish the work area during an inspection. The owner should be aware of this in case suspect materials or concealed suspect materials are uncovered during the actual renovation. If suspect materials that were previously not accessible or not sampled during this inspection are discovered during the renovation, or if the scope of the renovation changes to include disturbance of new materials not inspected, then renovation must stop, and the materials must be sampled by a CT DPH licensed asbestos inspector prior to disturbance of these materials.

**ASBESTOS PRE-RENOVATION INSPECTION
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RECOMMENDATIONS

Based on our inspection, no further testing is needed unless the scope of work changes or a new item is discovered during the actual work. ***If the renovation plans change and the ACM mudded fitting are to be distributed:***

All Asbestos Containing Materials (ACM) detected in the path of the inspection must be removed prior to the disturbance of these materials.

For the <3 SF of ACM pipe fitting insulation: Asbestos removal is regulated by federal and state agencies. The work may be done as outlined in CT DPH regulations 19a-332a-10 for spot repairs by persons with a minimum of OSHA Class III training, however ChemScope strongly recommends that the abatement work and cleaning be done by a licensed asbestos abatement contractor. CT DPH defines a spot repair as any asbestos abatement performed within a facility involving not more than three (3) linear feet or three (3) square feet of asbestos containing material. Final re-occupancy testing and notification to the CT DPH are not required, as the amount of asbestos being removed is less than 3 square feet. A CT DPH Licensed Project Monitor is always required for final visual inspections after asbestos removal. Disposal of all ACM is regulated by EPA and the Connecticut DEEP; an EPA approved landfill must be used.

OSHA regulations 1926.1101 requires that before asbestos removal or repair work (class I, II or III work) is initiated, building owners/facility owners must notify their own employees and employers who are bidding on such work, of the quantity and location of ACM or PACM (presumed asbestos containing material) present in such areas. Also, for inadvertently discovered ACM or PACM there is a 24-hour notification requirement to the owner and all employers at the site.

Section 19a-333-7 of the Regulations of Connecticut State Agencies prohibits the performance of asbestos abatement in a school building while school is in session (or at any time while children are in the school) without the prior written approval of the DPH. This includes interior asbestos abatement, and it is the interpretation of the DPH Asbestos Program that the removal of exterior friable asbestos-containing material constitutes asbestos abatement, as defined by Connecticut General Statute Section 19a-332. Therefore, a local education agency is required to obtain the prior written approval of the DPH to remove the interior and exterior friable materials at this site while school is in session.

At a minimum for abatement while school is not in session or when children are not in the school, the school system must send a letter to the CT-DPH to inform them of the abatement and that no children/students will be in the school building at the time of the abatement.

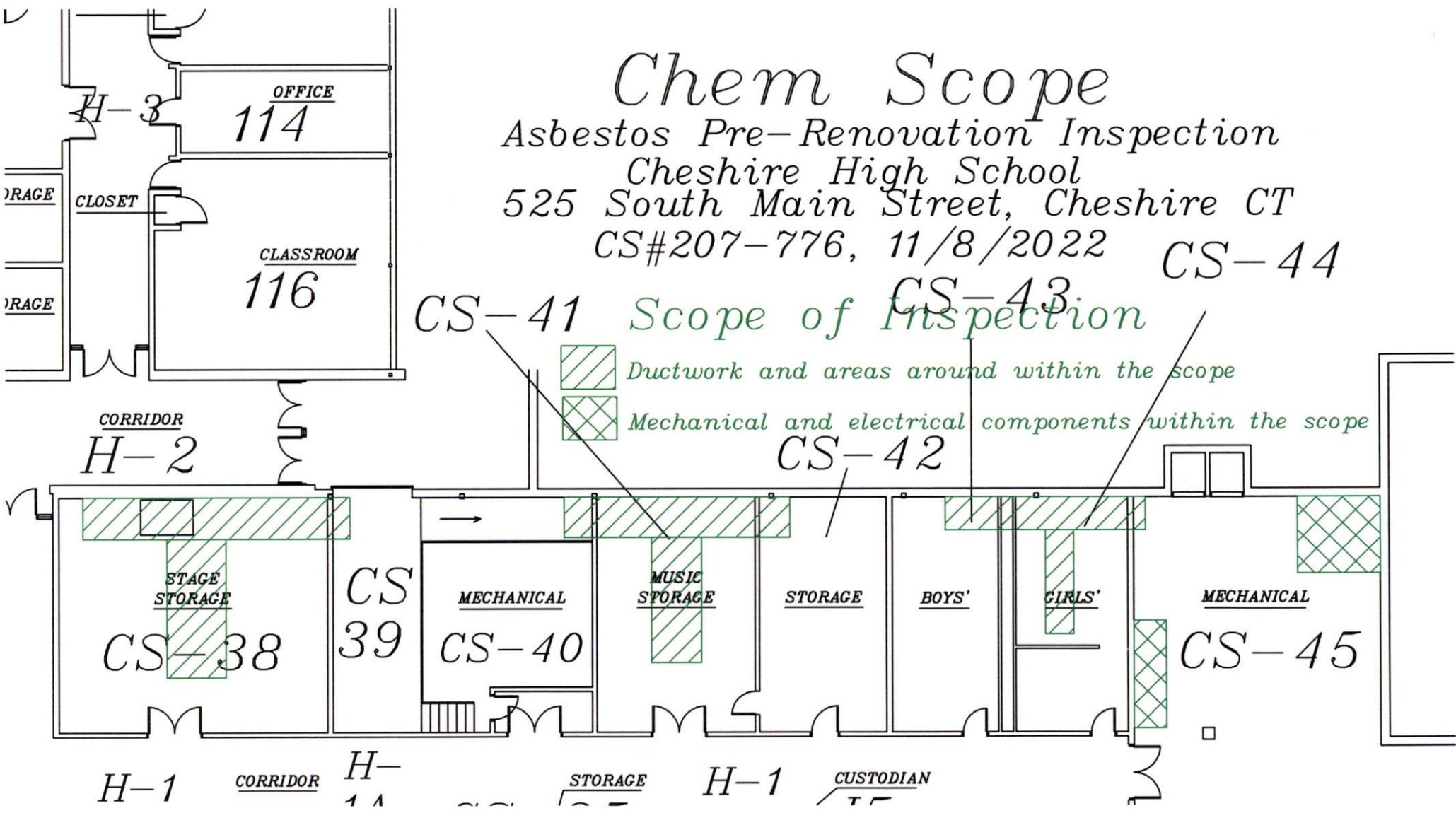
Sincerely,



Ziyang Wang
Asbestos Inspector

Chem Scope

Asbestos Pre-Renovation Inspection
Cheshire High School
525 South Main Street, Cheshire CT
CS#207-776, 11/8/2022 CS-44



Certificate Of Analysis

Cheshire Public Schools
29 Main Street
Cheshire CT 06410

11/09/2022
CS#: 207-776
Page 1 of 3

Bulk sample(s) from Cheshire High School, 525 South Main Street, Cheshire, CT collected by Ziyang Wang on 11/08/2022

Examination made by Polarized Light Microscopy (PLM) per EPA Appendix E to Subpart E of 40 CFR Part 763 and EPA Test Method 600/R-93/116

Sample Identification

207-776-1 Black brittle gasket (from condensate pump)/CS-45

Findings (Analyzed 11/09/2022)

No Asbestos Detected
62% Non Fibrous Particles
38% Volatile on Ignition

207-776-2 Red brittle gasket (from condensate pump)/CS-45

No Asbestos Detected
62% Non Fibrous Particles
38% Volatile on Ignition

207-776-3 Light gray crumbly 2x2 suspended ceiling tile with white face (from ceiling)/CS-44

No Asbestos Detected
34% Non Fibrous Particles
51% Mineral Wool
15% Volatile on Ignition

207-776-4 White crumbly taping compound (on white crumbly sheetrock with brown fibrous paper backing from wall)/CS-41

No Asbestos Detected
97% Non Fibrous Particles
3% Volatile on Ignition

207-776-5 White crumbly sheetrock with brown fibrous paper backing (from # 4)/CS-41

No Asbestos Detected
81% Non Fibrous Particles
19% Volatile on Ignition

Bulk sample(s) from Cheshire High School, 525 South Main Street, Cheshire, CT collected by Ziyang Wang on 11/08/2022

Examination made by Polarized Light Microscopy (PLM) per EPA Appendix E to Subpart E of 40 CFR Part 763 and EPA Test Method 600/R-93/116

Sample Identification

207-776-6 Gray granular cinder block (with light gray hard mortar from wall)/CS-45

Findings (Analyzed 11/09/2022)

No Asbestos Detected
99% Non Fibrous Particles
1% Volatile on Ignition

207-776-7 Light gray hard mortar (from # 6)/CS-45

No Asbestos Detected
93% Non Fibrous Particles
5% Fiberglass
2% Volatile on Ignition

**PARAMETERS
ASBESTOS PLM ANALYSIS
(Revised 12/9/19)**

1. *Materials which contain >1% asbestos (greater than 1%) by PLM (polarizing light microscopy) analysis are considered to be asbestos containing materials under EPA and the State of Connecticut Regulations. OSHA still regulates material with <1%. (Contact laboratory for information.) {Note: A more sensitive method is available called TEM (transmission electron microscopy). TEM may detect asbestos fibers that PLM cannot see, but the above agencies' enforcement is based on PLM analysis. Rules may differ for states other than Connecticut. It is best to check with the individual state. For example, New York State requires TEM confirmation of negative PLM results on floor tile}.*
2. *If no asbestos is detected in a sample, or if the asbestos content is less than 1 % by PLM, additional samples of the same material should be submitted for confirmation. Please check with the laboratory for guidance on the number of samples needed. Sample collection in Connecticut must be by a DPH Licensed Asbestos Inspector. Many other states also require licensing.*
3. *Floor Tile Mastic: Mastic under floor tile should be separately sampled by scraping some of the mastic from the floor to avoid contamination from the floor tile.*
4. *Although ChemScope, Inc. takes great effort to insure accuracy in the estimation of asbestos in the materials analyzed, no quantitation method is without some uncertainty. Based on independent calibration studies and comparison of ChemScope's quantitative results with NVLAP and AIHA, LAP programs we estimate our relative error (@ 95% Confidence Level) to be 0.26%. This means an estimated 10% asbestos has a Confidence Interval of 7.4-12.6% Asbestos. Likewise, a sample with an estimated 1% asbestos has a Confidence Interval of 0.74-1.26% Asbestos.*
5. *The presence of non-asbestos components, which are recognized by the PLM analyst, are reported with the estimated amounts. This is not an exhaustive analysis for the non-asbestos materials since the primary purpose is to determine if asbestos is present and, if so, how much is present of each type of asbestos.*
6. *Results reported apply only to the sample(s) analyzed.*
7. *Special treatment of samples: Chem Scope, Inc. routinely uses gravimetric sample reduction techniques such as low temperature ashing or acid dissolution on samples like floor tile, roofing materials, glue dots, or high cellulose content samples prior to PLM analysis. These methods are used to aid in the PLM analysis and to provide better quantitative data. Layered samples, if possible, are analyzed separately as individual layers. However, in accordance with the method, if any layer contains >1% asbestos (greater than 1%) it is to be considered an asbestos containing material. All results are reported to the original sample basis.*
8. *Sample results are not corrected for blanks. Analytical blanks are run daily and if contamination is suspected the samples are rerun.*
9. *Chem Scope, Inc. performs "400 point" point counting when the asbestos content is visually estimated to be less than 10%. There is no additional charge for this analysis.*

The Scope of Accreditation referenced in this report applies to bulk asbestos fiber analysis by PLM (Polarized Light Microscopy).

Accreditation does not imply endorsement by NVLAP, NIST or any Federal or State Agency.

This report pertains only to the samples tested and may not be reproduced in part.

Condition of the samples at the time of receipt was acceptable unless otherwise noted on the Certificate of Analysis.

See test parameters above and on attached chain of custody form.




We would love to hear from you. Comments? Questions? Please call or email us at chem.scope@snet.net

ChemScope, Inc. is accredited by AIHA LAP, LLC LAB #100134

NVLAP Lab Code 101061-0.

Connecticut Department of Public Health (DPH) Approved Environmental Lab PH 0581

Rhode Island Department of Health - Asbestos Program Certification #PLM00070

Signature  Analyst	Signature (if applicable)  Inspector	Authorized Signature or Suzanne Cristante Laboratory Director	Authorized Signature or Izabela Kremens Quality Manager	Authorized Signature  Daniel Sullivan President
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Dear Laboratory Customer or Potential Customer,

New laboratory accreditation standards require us to provide our clients information about our services to make sure that your requirements for testing are adequately defined, documented and understood. The following is for your information. Please call us if you have any questions or comments.

Type of Samples

// PCM cassettes are routinely run by NIOSH Method 7400. (Issue #3, 14 June 2019)

// Bulk materials are run per EPA Appendix E to subpart of 40CFR part 763 and EPA Test method 600/R-93/116

Air Samples: NIOSH 7400 Method counts all fibers. This method may be used for personal air samples and for finals. Two field blanks must be submitted for each set of samples. In the unlikely event that there is to be any deviation from the standard test, you will be consulted by phone before the work begins. Those clients who have not had NIOSH 582 or AHERA asbestos training courses (either supervisor or project monitor) should consult with the lab director for more information. The test parameters are further explained in the analytical report.

Bulk materials: sampled are analyzed by the latest EPA Method: (#600/R-93/116) which uses polarized light microscopy (PLM). When asbestos is detected and the amount is estimated to be less than 10%, we automatically point count the samples. When there are interfering substances present, we may use ashing, acid washing or other procedures described in the method to handle the interference. Those clients who have not had AHERA asbestos training courses (either inspector, supervisor or project designer) should consult with the lab director for more information. The test parameters are further explained in the analytical report.

All Samples must be clearly labeled with source name and identification number or sufficient information from the client to make this sample uniquely identified. (We will then add our notebook #, page # (batch) and unique number within the batch.) Samples must be in a clean, air tight package such as a zip loc bag. Appropriate completed paperwork must accompany the sample. Bulk and air samples may not be submitted in the same package.

As soon as available bench top results will be faxed to you and reports will then be mailed. We will retain air samples for at least three months and bulk samples for 6 months unless you advise us otherwise.

You are welcome to visit the laboratory at any time to discuss the work, monitor the work or verify our testing services. We appreciate your business and encourage any feedback regarding improving our services or our quality system. Please take a minute to complete the following survey and mail/fax it to ChemScope, Inc.

Customer Service Survey

To help us improve our services give your opinions to the following:

- 1- The printed laboratory report was complete and easy to understand. YES__ NO__
If no, please explain _____.
- 2- The turn around time for results met your expectations/needs. YES__ NO__
If no, please explain _____.
- 3- How likely are you to recommend ChemScope Inc. to someone?
Excellent__ Very Good__ Good__ Fair__ Poor__
- 4- How likely are you to return to ChemScope in the future if the need arises?
Excellent__ Very Good__ Good__ Fair__ Poor__
5. On a scale of 1 to 5 where 1 represents "Satisfied" and 5 represents "Dissatisfied", how would you rate your level of overall satisfaction.
1__ 2__ 3__ 4__ 5__
- 6- Please add any additional comments or suggestions that would be helpful when you use our services:

Name _____ Company _____

Address _____ Telephone/e-mail _____

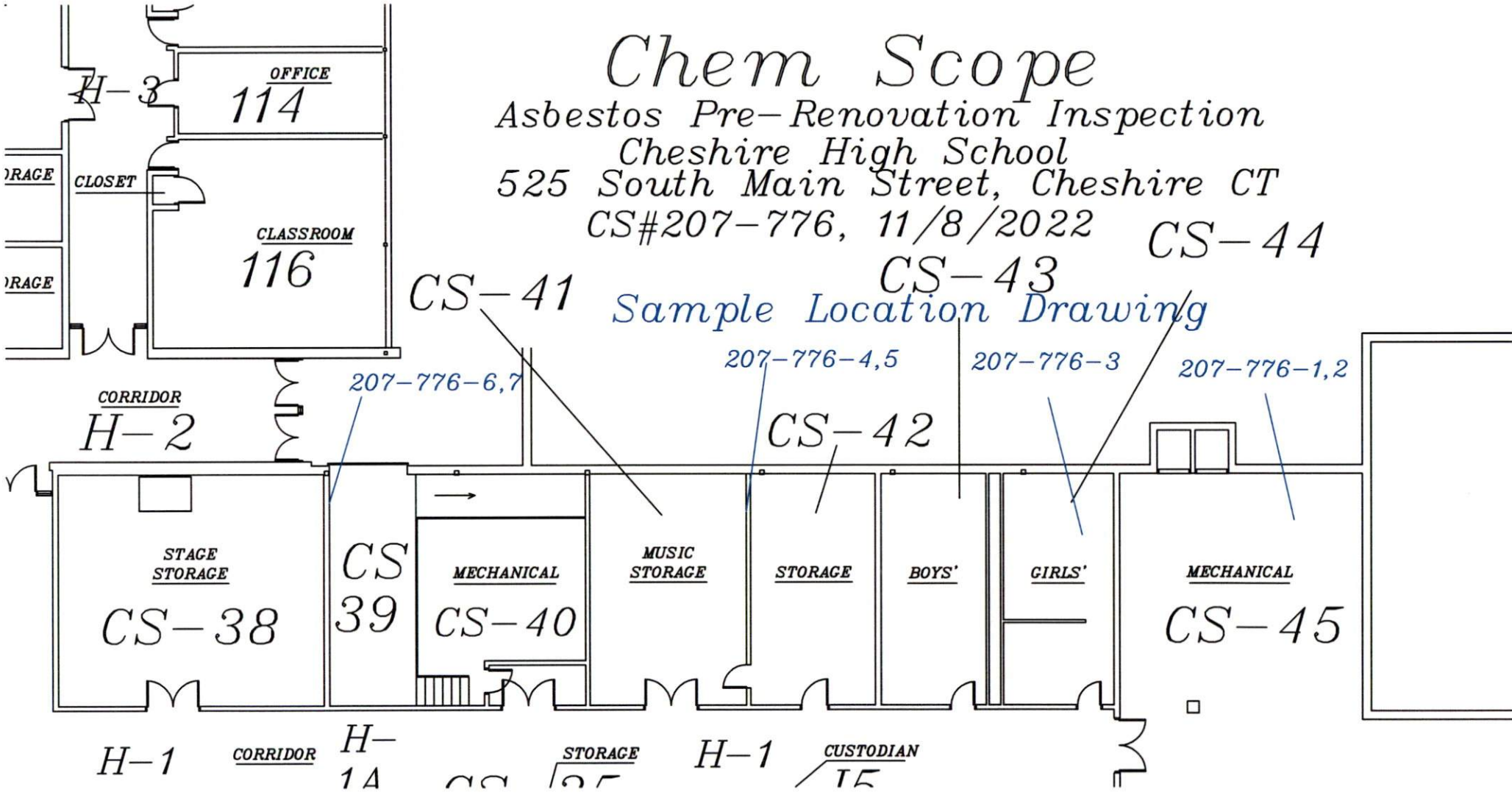
Can we contact you regarding this survey? YES__ NO__

Chem Scope

Asbestos Pre-Renovation Inspection
Cheshire High School
525 South Main Street, Cheshire CT

CS#207-776, 11/8/2022 CS-44

CS-43
Sample Location Drawing



STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT-INSP/MGMT PLANNER

ZIYANG WANG

CERTIFICATE NO
000355

CURRENT THROUGH
07/31/23

VALIDATION NO
03-977225


SIGNATURE


COMMISSIONER

CERT#: A-508-Virtual.634

CHEMSCOPE TRAINING DIVISION
ASBESTOS INSPECTOR/MANAGEMENT PLANNER REFRESHER
8-HOUR TRAINING CERTIFICATE

Ziyang Wang

15 Moulthrop Street, North Haven CT

Has attended an 8-hour course on the subject discipline on
09/02/2022 and has passed a written examination.

"The person receiving this certificate has completed the requisite training required for asbestos accreditation as an inspector/management planner under TSCA Title II"

Course topics include a review and update on asbestos health hazards, functions of inspectors and management planners, building systems, planning, inspecting for asbestos, sampling and analysis, respiratory protection, government regulations and preparing the inspection report.

The training course has been accredited by the State of Connecticut.

Examination 1 Score: 98%
Examination 2 Score: 94%
Exam Date: 09/02/2022
Expiration Date: 09/02/2023



Daniel Sullivan
Training Manager

Chem Scope, Inc.
15 Moulthrop Street
North Haven CT 06473
Phone: 203.865.5605
www.chem-scope.com



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

ChemScope, Inc.

15 Moulthrop St North Haven, CT 06473-3633

Laboratory ID: LAP-100134

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA LAP), LLC accreditation to the ISO/IEC 17025:2017 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

LABORATORY ACCREDITATION PROGRAMS

<input checked="" type="checkbox"/>	INDUSTRIAL HYGIENE	Accreditation Expires: September 01, 2024
<input type="checkbox"/>	ENVIRONMENTAL LEAD	Accreditation Expires:
<input type="checkbox"/>	ENVIRONMENTAL MICROBIOLOGY	Accreditation Expires:
<input type="checkbox"/>	FOOD	Accreditation Expires:
<input type="checkbox"/>	UNIQUE SCOPES	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2017 and AIHA LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Cheryl O Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 101061-0

ChemScope, Inc.
North Haven, CT

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2022-04-01 through 2023-03-31

Effective Dates



A handwritten signature in black ink, appearing to read 'Dana S. Laman', written over a horizontal line.

For the National Voluntary Laboratory Accreditation Program

State of Connecticut, Department of Public Health
Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

CHEMSCOPE, INC

LOCATED AT 15 Moulthrop Street IN North Haven, Connecticut 06473

AND REGISTERED IN THE NAME OF DANIEL SULLIVAN

THIS CERTIFICATE IS ISSUED IN THE NAME OF SUZANNE CRISTANTE WHO HAS BEEN DESIGNATED BY THE REGISTERED OWNER\AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

BUILDING MATERIALS

**ASBESTOS FIBERS - PCM
BULK IDENTIFICATION - PLM**

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

EFFECTIVE RENEWAL DATE April 1, 2021

THIS CERTIFICATE EXPIRES March 31, 2023 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 15th DAY OF December, 2021



Registration
No.

PH - 0581

Lori J. Mathieu '21

Lori Mathieu
Branch Chief
Environmental Health & Drinking Water Branch