

Matt Meeker
30 Town House Road
2nd Floor
Durham CT 06422

09/30/2026

**ASBESTOS PRE-DEMOLITION INSPECTION
VACANT SINGLE FAMILY RESIDENCE
51 MAIN STREET, DURHAM CT
CS# 215-756, 09/15/2026, PAGE 1 OF 6**

TABLE OF CONTENTS

<u>PAGE</u>	<u>CONTENTS</u>
1	TABLE OF CONTENTS
2	INTRODUCTION
3-5	INSPECTION REPORT SYNOPSIS
5	LIMITATIONS OF INSPECTION
6	RECOMMENDATIONS

Attachments:

- Scope of Inspection Drawing (4 pages)
- ACM Location Drawing (1 page)
- Certificate of Analysis Report (9 pages)
- Chain of Custody Document (2 pages)
- Sample Location Drawing (4 pages)
- CT DPH Circular Letter #2003-10 (2 pages)

Report Distribution:

MMeeker@townofdurhamct.org

File Location:

NAS AAUM-Reports\AsbInsp\BH\BHPreReno2026.doc

**ASBESTOS PRE-DEMOLITION INSPECTION
VACANT SINGLE FAMILY RESIDENCE
51 MAIN STREET, DURHAM CT
CS# 215-756, 09/15/2026, PAGE 2 OF 6**

INTRODUCTION

EXECUTIVE SUMMARY:

Asbestos containing materials (ACM) were detected within the scope of this testing and will need to be properly removed (abated) and disposed of prior to any renovation or demolition that would disturb these materials. Abatement work must be done by a licensed asbestos abatement contractor using proper procedures and practices with certified and trained individuals. *Materials with <1% asbestos are not defined as asbestos containing materials in DPH and EPA regulations. However, OSHA regulations require proper procedures be used to prevent exposure to workers performing the related disturbance. This includes training and protection for employees who may be exposed above the OSHA PEL.

SITE DESCRIPTION:

The subject building is a vacant single family residence, of wood frame construction, totaling approximately 1800 SF and built in 1850.

PURPOSE AND SCOPE OF INSPECTION:

Asbestos Pre-Demolition Inspection as directed by Matt Meeker of the Town of Durham. It is our understanding there are plans to demolish the vacant single family residence. You would like all accessible materials tested for asbestos prior to the demolition. Since the house was built in 1850, you would also like the required Lead XRF Inspection prior to demolition as well. No other materials or areas were within the scope of this inspection.

TEST PARAMETERS:

This is an Asbestos Pre-Demolition Inspection which is 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. 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 information provided in this report depends 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-DEMOLITION INSPECTION
VACANT SINGLE FAMILY RESIDENCE
51 MAIN STREET, DURHAM CT
CS# 215-756, 09/15/2026, PAGE 3 OF 6**

INSPECTION REPORT SYNOPSIS

LOCATION NAME AND ADDRESS: Vacant Single Family Residence
51 Main Street, Durham CT

INSPECTION DATE(S): 09/15/2026

QUALIFICATIONS: The inspection was conducted by inspector(s): Brian Hoang.

Brian Hoang is certified as follows:

- EPA and State of Connecticut Accredited Asbestos Inspector.
- State of Connecticut Licensed Asbestos Project Monitor (#000823)
- State of Connecticut Licensed Asbestos Inspector (#000988)

SITE OBSERVATIONS: On site, the door was unlocked that gave us access to the residence. We made the following observations:

- The building was vacant at the time of inspection.
- There was >3 SF of damage to many walls and ceilings.
- Basement was unsafe and inaccessible at the time of inspection.

FINDINGS: The following asbestos containing materials (ACM) were detected within the Scope of the Inspection:

<u>MATERIAL</u>	<u>LOCATION</u>	<u>~*FOOTAGE</u>
Black hard flashing tar (from Chimney)	Exterior – Side C	5 SF

**ASBESTOS PRE-DEMOLITION INSPECTION
VACANT SINGLE FAMILY RESIDENCE
51 MAIN STREET, DURHAM CT
CS# 215-756, 09/15/2026, PAGE 4 OF 6**

INSPECTION REPORT SYNOPSIS (CONT):

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
1 st Floor – 1-1 2 nd Floor – 2-5 Attic	Black/brown fibrous batt insulation (from ceiling)	215-756-1 215-756-2 215-756-3	No Asbestos Detected
1 st Floor – 1-2 2 nd Floor – 2-3	<i>*Black fibrous tar paper (under wood floor)</i>	<i>*215-756-4 *215-756-5</i>	<i>*<1% Asbestos Detected</i>
1 st Floor – 1-2	Off-white/tan brick pattern hard self stick floor tile with clear glue (on wood floor)	215-756-6	No Asbestos Detected
1 st Floor – 1-3	Off white with tan pattern and dark gray backing hard self stick floor tile with clear glue (on wood floor)	215-756-7	No Asbestos Detected
2 nd Floor – 2-6	Off-white/tan with brown streaks hard self stick floor tile with clear glue (on wood floor)	215-756-8	No Asbestos Detected
2 nd Floor – 2-2	Brown/dark pink hard linoleum with black/tan fibrous backing with off-white crumbly glue (on wood floor)	215-756-9 215-756-10	No Asbestos Detected
2 nd Floor – 2-6	Brown crumbly glue daub (behind panel on sheetrock wall)	215-756-11 215-756-12	No Asbestos Detected
1 st Floor – 1-2	White with light tan streaks hard 12x12 backsplash (on tan crumbly glue from wall)	215-756-13 215-756-14 215-756-50 215-756-51	No Asbestos Detected
1 st Floor – 1-1 2 nd Floor – 2-1 and 2-5	White thin hard top coat plaster on light gray granular base coat plaster (on wood lath from ceiling)	215-756-(15-22)	No Asbestos Detected
2 nd Floor – 2-4	White crumbly texture with white hard top coat plaster on light gray hard/granular base coat (on wood lath from ceiling)	215-756-(23-26)	No Asbestos Detected
1 st Floor – 1-4	White crumbly textured pain (on white crumbly sheetrock with brown fibrous paper backing from ceiling)	215-756-27 215-756-28 215-756-29	No Asbestos Detected
2 nd Floor – 2-3	White crumbly textured compound on white crumbly sheetrock with brown fibrous paper backing (from ceiling)	215-756-(30-33)	No Asbestos Detected
1 st Floor – 1-3 2 nd Floor – 2-7	White crumbly joint compound on white crumbly sheetrock with brown fibrous paper backing (from wall)	215-756-(34-37)	No Asbestos Detected

**ASBESTOS PRE-DEMOLITION INSPECTION
VACANT SINGLE FAMILY RESIDENCE
51 MAIN STREET, DURHAM CT
CS# 215-756, 09/15/2026, PAGE 5 OF 6**

INSPECTION REPORT SYNOPSIS (CONT):

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
1 st Floor – 1-1	Off white/tan woven/fibrous wallpaper and clear glue (from wall)	215-756-38	No Asbestos Detected
1st Floor – 1-2	White/tan/off-white square pattern pliable/woven wallpaper and clear glue (from wall)	215-756-39	No Asbestos Detected
Exterior – Side C	Red hard brick with gray hard mortar (from foundation)	215-756-40 215-756-41 215-756-42 215-756-43	No Asbestos Detected
Exterior – By 2-1 and By 2-7	White/light gray hard window glazing (between glass and window case)	215-756-44 215-756-45	No Asbestos Detected
Roof – R-1 and R-4	Black/white/silver pebbled black hard/fibrous shingle layers (on wood roof deck)	215-756-48 215-756-49	No Asbestos Detected

**Materials with <1% asbestos are not defined as asbestos containing materials in DPH and EPA regulations. However, OSHA regulations require proper procedures be used to prevent exposure to workers performing the related disturbance. This includes training and protection for employees who may be exposed above the OSHA PEL.*

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 entire work area, during an inspection. The owner should be aware of this in case suspect materials, which are concealed (packings, gaskets, insulations, electrical wire insulation, etc.), are uncovered during the actual renovation.

If suspect materials that were previously not accessible or not sampled during this inspection are discovered during the work, or if the scope of the work changes to include disturbance of new materials not inspected, then work must stop and the materials must be sampled by a CT DPH licensed asbestos inspector prior to disturbance of these materials.

The basement was unsafe and inaccessible at the time of inspection.

**ASBESTOS PRE-DEMOLITION INSPECTION
VACANT SINGLE FAMILY RESIDENCE
51 MAIN STREET, DURHAM CT
CS# 215-756, 09/15/2026, PAGE 6 OF 6**

RECOMMENDATIONS

*Materials with <1% asbestos are not defined as asbestos containing materials in DPH and EPA regulations. However, OSHA regulations require proper procedures be used to prevent exposure to workers performing the related disturbance. This includes training and protection for employees who may be exposed above the OSHA PEL.

For the 5SF of ACM flashing tar: As long as the roofing materials remain not friable, it may be removed by workers with 8 hour roof training plus a DPH certified supervisor must be on the job. However it would be simpler to stay with a licensed contractor. Also if the roof becomes friable, then the CT DPH must be notified and a licensed asbestos contractor is needed with all certified workers and a certified supervisor.

Asbestos removal is regulated by federal and state agencies. Abatement work must be done by a licensed asbestos abatement contractor using proper procedures and practices, including containment, decontamination facilities, negative air units and trained and certified workers. A CT DPH Licensed Project Monitor is always required for final visual inspections after asbestos removal.

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.

Please also keep in mind that notification to the DPH is required for asbestos abatement involving greater than 10 linear feet or 25 square feet of ACM when renovation or demolition activities are performed. Disposal of all ACM is regulated by EPA and the Connecticut DEEP; an authorized landfill must be used.

Sincerely,



Brian Hoang
Asbestos Inspector

ChemScope Inc.
Asbestos Pre-Demolition Inspection
Vacant Single Family Residence
51 Main Street, Durham CT
CS# 215-756, 09/15/2026

SIDE B

LEGEND OF SYMBOLS

NOTATIONS

ORCID: [ORCID](#) Brian Hoang

Sheet Title

CHEMICAL NAME:

ISSN 0005-2718

NOT TO SCALE

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405</
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	--------

SIDE A

Scope of Inspection Drawing



Scope of Inspection of
Walls, Ceiling, Flooring, Etc.

ChemScope Inc.

Asbestos Pre-Demolition Inspection
Vacant Single Family Residence
51 Main Street, Durham CT
CS# 215-756, 09/15/2026
SIDE C

LEGEND OF SYMBOLS

NOTATIONS

Drawn by: Brian Hoang

ChemScope Inc.

SHEET TITLE

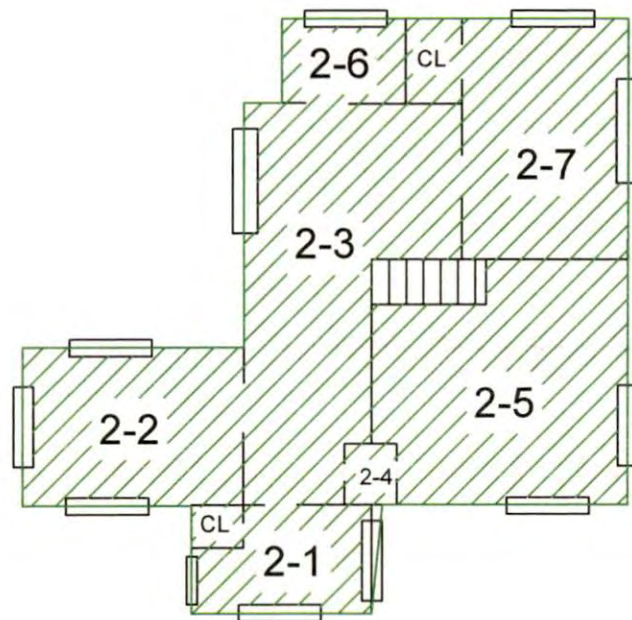
PREPARED BY: BHOANG

REVIEWED BY: BHOANG

NOT TO SCALE

DATE:

SIDE B



SIDE D

2nd Floor

SIDE A

ChemScope Inc.

SIDE C

LEGEND OF SYMBOLS

NOTATIONS

ChemScope Inc.

0000000000000000

ONE-WAY ANOVA

NOT TO SCALE

Table 1

(continued)

1

1

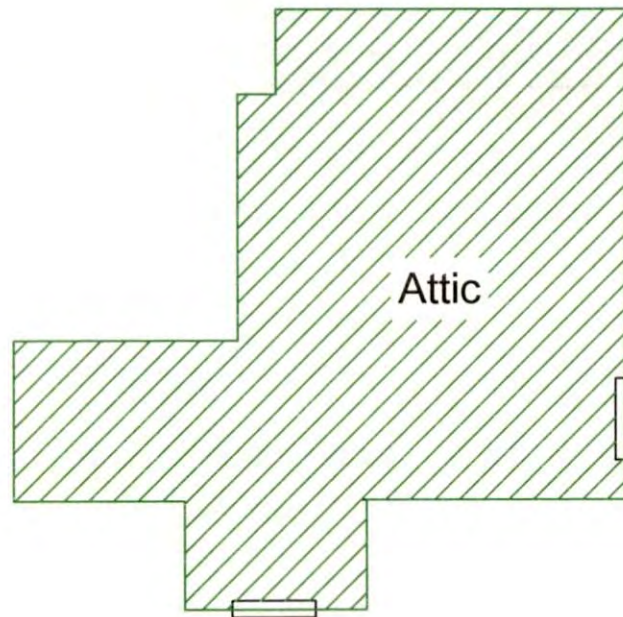
SIDE A

ChemScope Inc.
 Asbestos Pre-Demolition Inspection
 Vacant Single Family Residence
 51 Main Street, Durham CT
 CS# 215-756, 09/15/2026
 SIDE C

Scope of Inspection Drawing

 Scope of Inspection of
Insulation

SIDE B



Attic

Attic

SIDE A

SIDE D

LEGEND OF SYMBOLS

NOTATIONS

Drawn by: Brian Hoang

ChemScope Inc.

REPORT TITLE

INSPECTION NUMBER

PROJECT NUMBER

NOT TO SCALE

DATE

ACM Sample Location Drawing



Approx. Location of <3 SF of
ACM Flashing Tar

ChemScope Inc.

Asbestos Pre-Demolition Inspection

Vacant Single Family Residence

51 Main Street, Durham CT

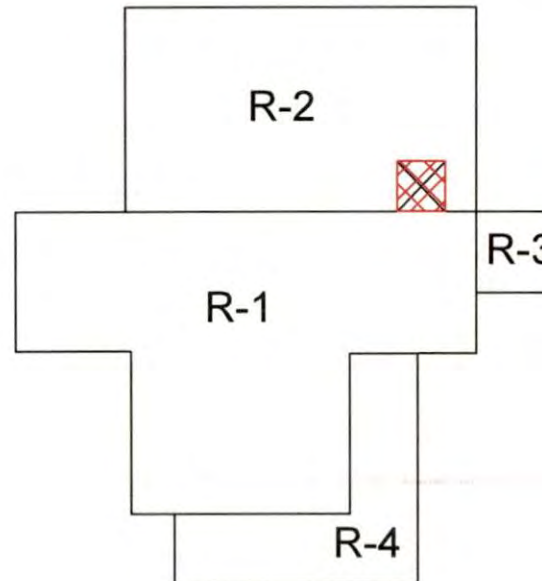
CS# 215-756, 09/15/2026

SIDE C

LEGEND OF SYMBOLS

NOTATIONS

SIDE B



SIDE D

Roof

SIDE A

Drawn by: Brian Hoang

ChemScope Inc.

Sheet 001

Customer Number

Service Number

NOT TO SCALE

Date

Certificate Of Analysis

Matt Meeker
30 Town House Road
2nd Floor
Durham CT 06422

09/22/2026
CS#: 215-756
Page 1 of 9

Bulk sample(s) from Vacant Single Family Residence, 51 Main Street, Durham CT collected by Brian Hoang on 09/15/2026

Examination made by Polarized Light Microscopy (PLM) per EPA 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, and EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials.

Sample Identification

215-756-1 Black/brown fibrous batt insulation (from ceiling)/1st Floor 1-2

Findings (Analyzed 09/22/2026)

No Asbestos Detected
<1% Non Fibrous Particles
91% Volatile on Ignition
9% Fiberglass

215-756-2 Black/brown fibrous batt insulation (from ceiling)/2nd Floor 2-5

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

215-756-3 Black/brown fibrous batt insulation (from floor)/Attic

No Asbestos Detected
10% Non Fibrous Particles
90% Volatile on Ignition
<1% Fiberglass

215-756-4 Black fibrous tar paper (under wood floor)/1st Floor 1-2

<1% Chrysotile Asbestos (point counted)
(*Confidence Interval = 0.037% - 0.063%)
19% Non Fibrous Particles
81% Volatile on Ignition
<1% Fiberglass
*Estimate of the Error @ 95% Confidence Level

215-756-5 Black fibrous tar paper (under wood floor)/2nd Floor 2-3

<1% Chrysotile Asbestos (point counted)
(*Confidence Interval = 0.007% - 0.013%)
5% Non Fibrous Particles
95% Volatile on Ignition
<1% Fiberglass
*Estimate of the Error @ 95% Confidence Level

Bulk sample(s) from Vacant Single Family Residence, 51 Main Street, Durham CT collected by Brian Hoang on 09/15/2026

Examination made by Polarized Light Microscopy (PLM) per EPA 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, and EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials.

Sample Identification**Findings (Analyzed 09/22/2026)**

215-756-6 Off white/tan brick pattern hard self stick floor tile with clear glue (on wood floor)/1st Floor 1-2

*No Asbestos Detected
86% Non Fibrous Particles
14% Volatile on Ignition*

215-756-7 Off white with tan pattern and dark gray backing hard self stick floor tile with clear glue (on wood floor)/1st Floor 1-3

*No Asbestos Detected
66% Non Fibrous Particles
34% Volatile on Ignition*

215-756-8 Off white/tan with brown streaks hard self stick floor tile with clear glue (on wood floor)/2nd Floor 2-6

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

215-756-9 Brown/dark pink hard linoleum with black/tan fibrous backing with off-white crumbly glue (on wood floor)/2nd Floor 2-2

*No Asbestos Detected
32% Non Fibrous Particles
68% Volatile on Ignition*

215-756-10 Brown/dark pink hard linoleum with black/tan fibrous backing with off-white crumbly glue (on wood floor)/2nd Floor 2-2

*No Asbestos Detected
29% Non Fibrous Particles
71% Volatile on Ignition*

215-756-11 Brown crumbly glue daub (behind panel on sheetrock wall)/2nd Floor 2-6

*No Asbestos Detected
32% Non Fibrous Particles
68% Volatile on Ignition*

215-756-12 Brown crumbly glue daub (behind panel on sheetrock wall)/2nd Floor 2-6

*No Asbestos Detected
47% Non Fibrous Particles
53% Volatile on Ignition*

Bulk sample(s) from Vacant Single Family Residence, 51 Main Street, Durham CT collected by Brian Hoang on 09/15/2026

Examination made by Polarized Light Microscopy (PLM) per EPA 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, and EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials.

Sample Identification**Findings (Analyzed 09/22/2026)**

215-756-13 White with light tan streaks hard 12x12 backsplash (on tan crumbly glue from wall)/1st Floor 1-2

No Asbestos Detected
87% Non Fibrous Particles
13% Volatile on Ignition

215-756-14 White with light tan streaks hard 12x12 backsplash (on tan crumbly glue from wall)/1st Floor 1-2

No Asbestos Detected
87% Non Fibrous Particles
13% Volatile on Ignition

215-756-15 White thin hard top coat plaster (on light gray granular base coat plaster on wood lath from ceiling)/1st Floor 1-1

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

215-756-16 White thin hard top coat plaster (on light gray granular base coat plaster on wood lath from wall)/1st Floor 1-1

No Asbestos Detected
92% Non Fibrous Particles
8% Volatile on Ignition
<1% Wollastonite

215-756-17 White thin hard top coat plaster (on light gray granular base coat plaster on wood lath from ceiling)/2nd Floor 2-1

No Asbestos Detected
97% Non Fibrous Particles
3% Volatile on Ignition
<1% Wollastonite

215-756-18 White hard top coat plaster (on light gray hard/granular base coat plaster on wood lath from ceiling)/2nd Floor 2-5

No Asbestos Detected
84% Non Fibrous Particles
16% Volatile on Ignition

215-756-19 Light gray granular base coat plaster (from sample #15)/1st Floor 1-1

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

Bulk sample(s) from Vacant Single Family Residence, 51 Main Street, Durham CT collected by Brian Hoang on 09/15/2026

Examination made by Polarized Light Microscopy (PLM) per EPA 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, and EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials.

Sample Identification**Findings (Analyzed 09/22/2026)**

215-756-20 Light gray granular base coat plaster (from sample #16)/1st Floor 1-1

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

215-756-21 Light gray granular base coat plaster (from sample #17)/2nd Floor 2-1

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

215-756-22 Light gray hard/granular base coat plaster (from sample #18)/2nd Floor 2-5

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

215-756-23 White crumbly texture with white hard top coat plaster (on light gray hard base coat plaster on wood lath from ceiling)/2nd Floor 2-4

No Asbestos Detected
93% Non Fibrous Particles
7% Volatile on Ignition
<1% Wollastonite

215-756-24 White crumbly texture with white hard top coat plaster (on light gray hard base coat plaster on wood lath from ceiling)/2nd Floor 2-4

No Asbestos Detected
94% Non Fibrous Particles
6% Volatile on Ignition
<1% Wollastonite

215-756-25 White crumbly texture with white hard top coat plaster (on light gray hard/granular base coat plaster on wood lath from ceiling)/2nd Floor 2-4

No Asbestos Detected
95% Non Fibrous Particles
5% Volatile on Ignition
<1% Wollastonite

215-756-26 Light gray hard/granular base coat (from sample #25)/2nd Floor 2-4

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

Bulk sample(s) from Vacant Single Family Residence, 51 Main Street, Durham CT collected by Brian Hoang on 09/15/2026

Examination made by Polarized Light Microscopy (PLM) per EPA 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, and EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials.

Sample Identification**Findings (Analyzed 09/22/2026)**

215-756-27 White crumbly textured paint (on white crumbly sheetrock with brown fibrous paper backing from ceiling)/1st Floor 1-4

*No Asbestos Detected
65% Non Fibrous Particles
35% Volatile on Ignition*

215-756-28 White crumbly textured paint (on white crumbly sheetrock with brown fibrous paper backing from ceiling)/1st Floor 1-4

*No Asbestos Detected
66% Non Fibrous Particles
34% Volatile on Ignition*

215-756-29 White crumbly textured paint (on white crumbly sheetrock with brown fibrous paper backing from ceiling)/2nd Floor 2-1

*No Asbestos Detected
85% Non Fibrous Particles
11% Volatile on Ignition
4% Wollastonite*

215-756-30 White crumbly textured compound (on white crumbly sheetrock with brown fibrous paper backing from ceiling)/2nd Floor 2-3

*No Asbestos Detected
98% Non Fibrous Particles
2% Volatile on Ignition*

215-756-31 White crumbly textured compound (on white crumbly sheetrock with brown fibrous paper backing from ceiling)/2nd Floor 2-3

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

215-756-32 White crumbly textured compound (on white crumbly sheetrock with brown fibrous paper backing from ceiling)/2nd Floor 2-3

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

215-756-33 White crumbly sheetrock with brown fibrous paper backing (from sample #29)/2nd Floor 2-1

*No Asbestos Detected
77% Non Fibrous Particles
23% Volatile on Ignition*

Bulk sample(s) from Vacant Single Family Residence, 51 Main Street, Durham CT collected by Brian Hoang on 09/15/2026

Examination made by Polarized Light Microscopy (PLM) per EPA 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, and EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials.

Sample Identification**Findings (Analyzed 09/22/2026)**

215-756-34 White crumbly joint compound (on white crumbly sheetrock with brown fibrous paper backing from wall)/1st Floor 1-3

No Asbestos Detected
92% Non Fibrous Particles
8% Volatile on Ignition
<1% Wollastonite

215-756-35 White crumbly joint compound (on white crumbly sheetrock with brown fibrous paper backing from wall)/2nd Floor 2-7

No Asbestos Detected
71% Non Fibrous Particles
11% Volatile on Ignition
18% Fiberglass
<1% Wollastonite

215-756-36 White crumbly sheetrock with brown fibrous paper backing (from sample #34)/1st Floor 1-3

No Asbestos Detected
76% Non Fibrous Particles
24% Volatile on Ignition

215-756-37 White crumbly sheetrock with brown fibrous paper backing (from sample #35)/2nd Floor 2-7

No Asbestos Detected
70% Non Fibrous Particles
26% Volatile on Ignition
4% Fiberglass

215-756-38 Off white/tan woven/fibrous wallpaper and clear glue (from wall)/1st Floor 1-1

No Asbestos Detected
35% Non Fibrous Particles
65% Volatile on Ignition

215-756-39 White/tan/off-white square pattern pliable/woven wallpaper and clear glue (from wall)/1st Floor 1-2

No Asbestos Detected
44% Non Fibrous Particles
56% Volatile on Ignition
<1% Wollastonite
<1% Non-Asbestos Rods

215-756-40 Red hard brick (with gray hard mortar from foundation)/Exterior Side C

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

Bulk sample(s) from Vacant Single Family Residence, 51 Main Street, Durham CT collected by Brian Hoang on 09/15/2026

Examination made by Polarized Light Microscopy (PLM) per EPA 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, and EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials.

Sample Identification**Findings (Analyzed 09/22/2026)**

215-756-41 Red hard brick (with gray hard mortar from foundation)/Exterior Side C

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

215-756-42 Gray hard mortar (from sample #40)/Exterior Side C

No Asbestos Detected
96% Non Fibrous Particles
4% Volatile on Ignition

215-756-43 Gray hard mortar (from sample #41)/Exterior Side C

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

215-756-44 White/light gray hard window glazing (between glass and window case)/Exterior by 2-1

No Asbestos Detected
95% Non Fibrous Particles
5% Volatile on Ignition
<1% Wollastonite

215-756-45 White/light gray hard window glazing (between glass and window case)/Exterior by 2-7

No Asbestos Detected
94% Non Fibrous Particles
6% Volatile on Ignition
<1% Wollastonite

215-756-46 Black hard flashing tar (from chimney)/Exterior Side C

31% Chrysotile Asbestos
(*Confidence Interval = 22.8% - 38.8%)
25% Non Fibrous Particles
44% Volatile on Ignition

215-756-47 Black hard flashing tar (from chimney)/Exterior Side C

Not Analyzed

Bulk sample(s) from Vacant Single Family Residence, 51 Main Street, Durham CT collected by Brian Hoang on 09/15/2026

Examination made by Polarized Light Microscopy (PLM) per EPA 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, and EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials.

Sample Identification

215-756-48 Black/white/silver pebbled black hard/fibrous shingle layers (on wood roof deck)/Roof R-1

215-756-49 Black/white/silver pebbled black hard/fibrous shingle layers (on wood roof deck)/Roof R-4

215-756-50 Tan crumbly glue (from under sample #13)/1st Floor 1-2

215-756-51 Tan crumbly glue (from under sample #14)/1st Floor 1-2

Findings (Analyzed 09/22/2026)

*No Asbestos Detected
43% Non Fibrous Particles
28% Volatile on Ignition
29% Fiberglass*

*No Asbestos Detected
41% Non Fibrous Particles
32% Volatile on Ignition
27% Fiberglass*

*No Asbestos Detected
43% Non Fibrous Particles
57% Volatile on Ignition*

*No Asbestos Detected
47% Non Fibrous Particles
53% Volatile on Ignition*

PARAMETERS ASBESTOS PLM ANALYSIS

(Revised 10/6/2025)

1. Materials which contain 1% asbestos (equal to or more than 1%) by PLM (polarizing light microscopy) analysis are treated as asbestos containing materials under the State of Connecticut Regulations. EPA regulates materials that contain >1% (greater than 1%) asbestos and OSHA still regulates material with <1% (less than 1%). (Contact laboratory for more 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 ensure 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 both internally and with NVLAP and AIHA, LAP programs we estimate our error to be relatively small. Our current Estimate of the Error @ the 95% Confidence Level is calculated at 0.26%. This means an estimate of 10% asbestos in a sample 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 (equal to or more 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). Condition of the samples at the time of receipt was acceptable unless otherwise noted on the Certificate of Analysis or chain of custody.

This report pertains only to the samples tested and may not be reproduced except in full without approval of the laboratory.

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

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

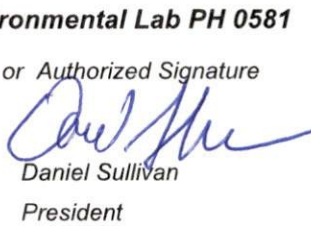
This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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

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

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

Emailed _____
 Faxed _____
 Called _____
 Logged _____

CS Job #215-756

CS Sample#	Client Sample#	Sample Description	Comments
------------	----------------	--------------------	----------

[illegible]

Other Special Instructions:

Result Transmittal Instructions (for outside Laboratory to Chem Scope, Inc):

Page _____ of _____

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, 29 April 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:

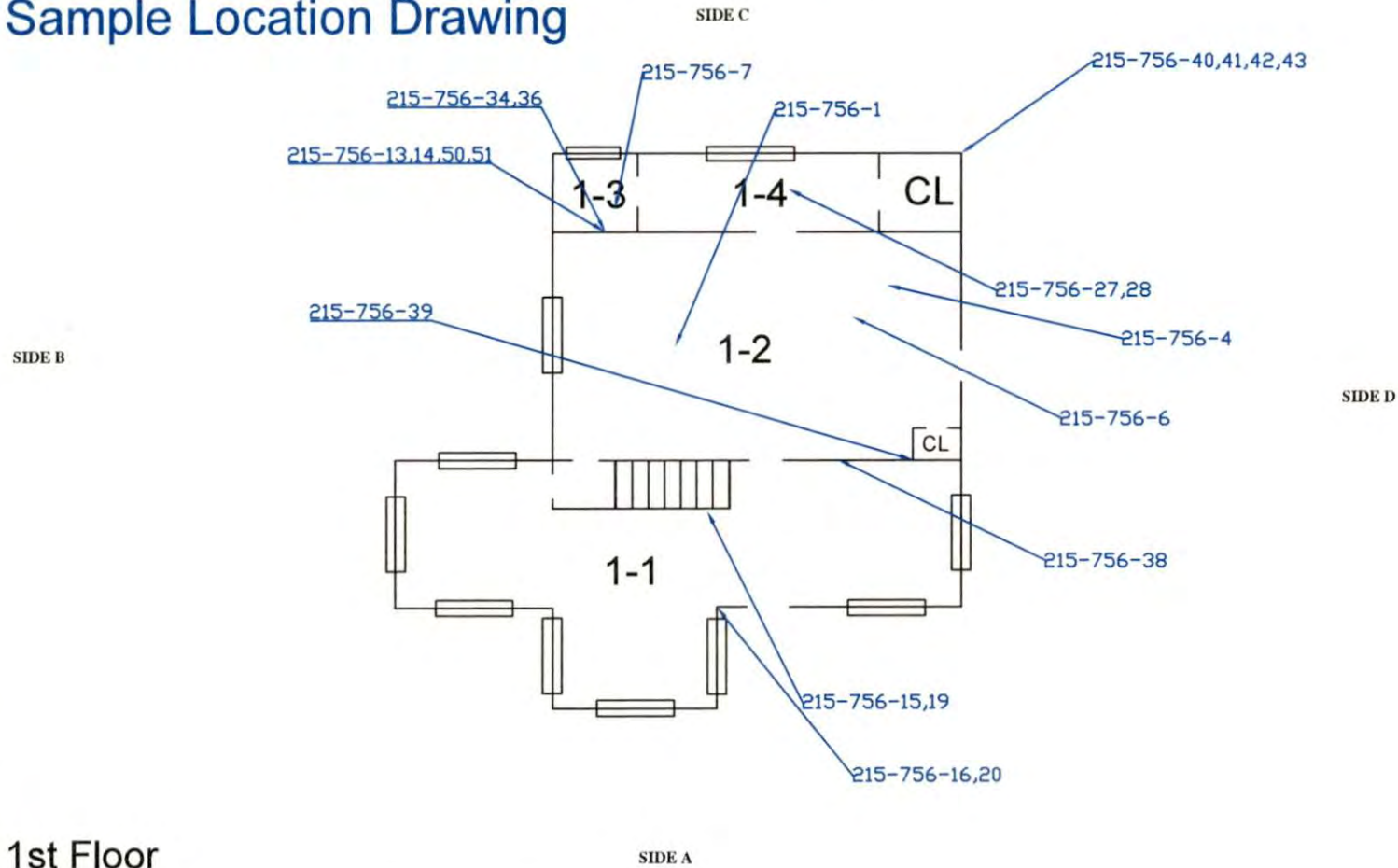
Name _____ Company _____

Address _____ Telephone/e-mail _____

Can we contact you regarding this survey? YES__ NO__

ChemScope Inc.
 Asbestos Pre-Demolition Inspection
 Vacant Single Family Residence
 51 Main Street, Durham CT
 CS# 215-756, 09/15/2026

Sample Location Drawing



LEGEND OF SYMBOLS

NOTATIONS

Drawn by: Brian Hoang

ChemScope Inc.

DATE: 09/15/2026

PROJECT NAME:

NOT TO SCALE

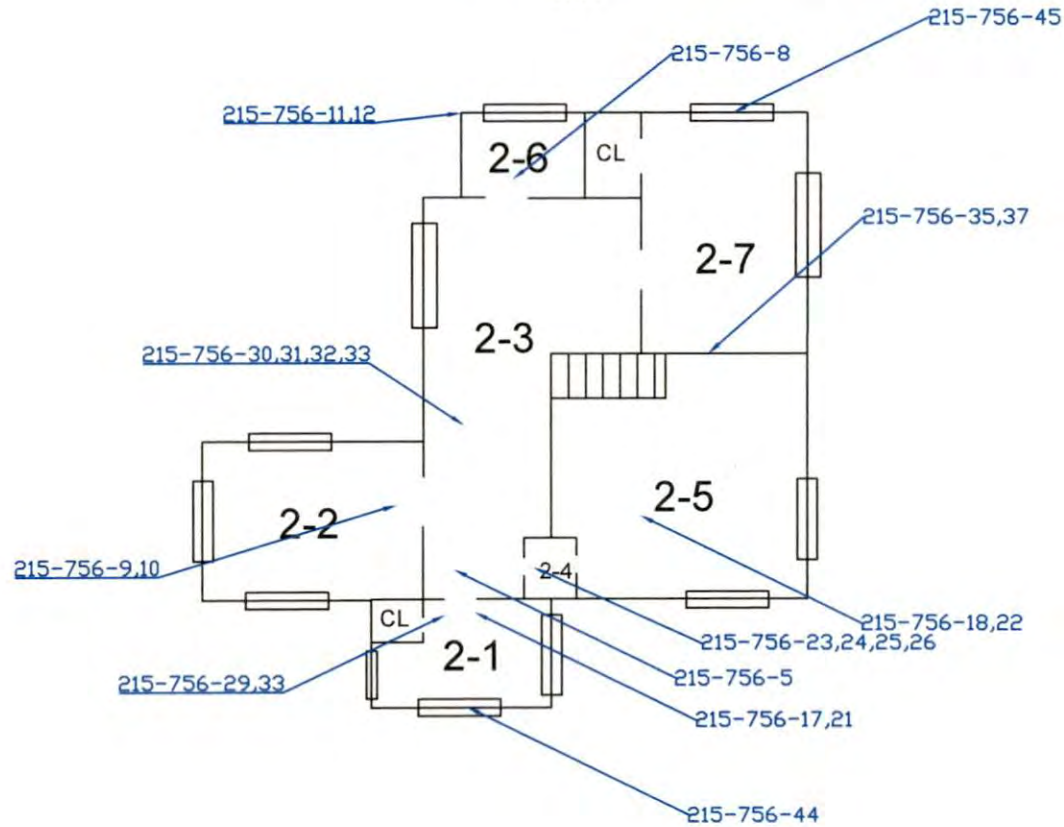
DATE:

REVISIONS:

ChemScope Inc.
 Asbestos Pre-Demolition Inspection
 Vacant Single Family Residence
 51 Main Street, Durham CT
 CS# 215-756, 09/15/2026
 SIDE C

SIDE B

SIDE D



2nd Floor

SIDE A

LEGEND OF SYMBOLS

NOTATIONS

Drawn by: Brian Hoang

ChemScope Inc.

Sheet Title

DATE: 09/15/2026

NOT TO SCALE

09/15

DATE: 09/15/2026

09/15

ChemScope Inc.
Asbestos Pre-Demolition Inspection
Vacant Single Family Residence
51 Main Street, Durham CT
CS# 215-756, 09/15/2026
SIDE C

Roof

SIDE B

SIDE A

SIDE D

[illegible]

--

000011 0000

CONFIDENTIALITY AGREEMENT

NOT TO SCALE

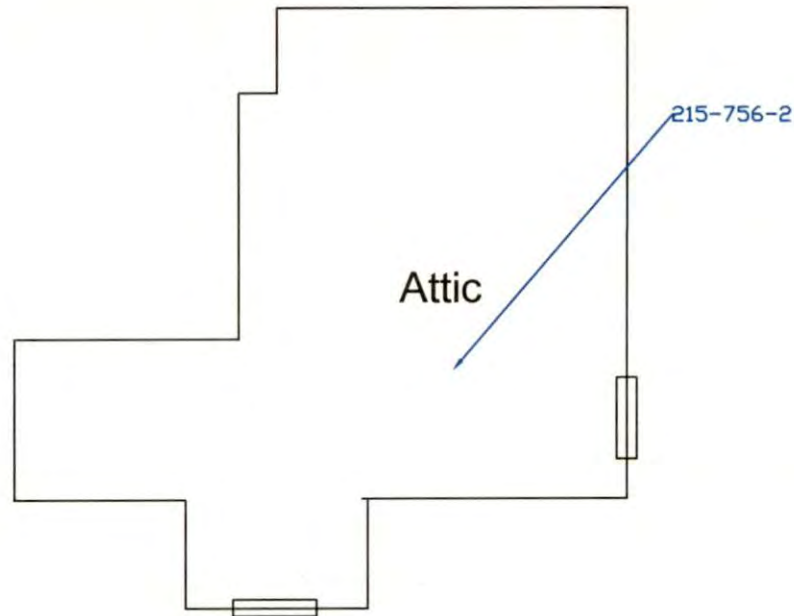
340-10

100

ChemScope Inc.
 Asbestos Pre-Demolition Inspection
 Vacant Single Family Residence
 51 Main Street, Durham CT
 CS# 215-756, 09/15/2026
 SIDE C

Sample Location Drawing

SIDE B



SIDE D

Attic

SIDE A

LEGEND OF SYMBOLS

NOTATIONS

Drawn by: Brian Hoang

ChemScope Inc.

SHEET TITLE

PROJECT NAME

NOT TO SCALE

DATE

APPROVED BY



STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

Division of Environmental Health Circular Letter #2003-10

To: Licensed Project Designers, Licensed Asbestos Abatement Contractors and Connecticut Approved Asbestos Training Providers

From: Ronald Skomro, Supervising Environmental Sanitarian
Asbestos Program

Date: April 7, 2003

Subject: Regulatory Interpretation Regarding Intact Removal of Non-Friable Asbestos-Containing Materials

A request for regulatory interpretation was made by a licensed asbestos consultant to the Department of Public Health (DPH) concerning the applicability of the DPH regulations to activities involving intact non-friable asbestos-containing materials within a facility. This memorandum addresses the DPH response to the scenarios presented. The following is a list of those activities detailed by the consultant:

- Removal of transite panels by unbolting or unscrewing and removing the panels intact;
- Removal of transite lab-type desk tops by either unbolting or unscrewing and removing the desk top intact, or complete component removal of the entire desk;
- Removal of flexible duct connectors by either unbolting or unscrewing and removing the connector intact, or complete component removal of the entire connector and small portions of the surrounding ductwork;
- Removal of countertops, backsplashes, etc., with linoleum, panel glue, or similar materials by completely removing the entire unit intact;
- Removal of sinks with pan sealant by removing the sink intact;
- Removal of window sashes with window glazing (interior or exterior) by removing the window stops and removing the entire window sash unit intact;
- Picking up loose floor tiles that have become completely disassociated with the floor and are either whole or are slightly broken but are still not considered to be Regulated Asbestos-Containing Material (RACM);
- Picking up loose miscellaneous non-friable items such as rolls of linoleum, loose gaskets, loose shingles, etc.;
- Removal of fire doors containing insulation from their hinges intact for complete component disposal;
- Attaching framing, brackets, etc., to structures by using power actuated tools to shoot/screw/bolt fasteners through the framing, brackets, etc., and through category I non-friable ACM (e.g., floor tile or mastic, cove base, waterproofing tar-like coating, asphalt roofing, gasketing, etc.). (The use of drills or similar tools to drill pilot holes or holes through the materials is not allowed.)



Phone: (860) 509-7367 / Fax (860) 509-7378
 Telephone Device for the Deaf (860) 509-7191
 410 Capitol Avenue - MS # 51 ATR
 P.O. Box 340308 Hartford, CT 06134
 An Equal Opportunity Employer

It is the interpretation of the DPH that the activities that are detailed above do not constitute asbestos abatement as defined by Section 19a-332 of the Connecticut General Statutes. Given this interpretation, such activities are not subject to DPH regulation. This interpretation is provided based upon the following understandings:

1. The asbestos-containing material is undamaged and non-friable and remains undamaged and non-friable during the removal or collection of the material. In the case of floor tile characterized as "slightly broken", a case-by-case assessment should be made to determine whether the removal of the tile constitutes asbestos abatement. The DPH shall be contacted directly when such activities are contemplated.
2. The asbestos-containing material is removed intact and without breakage or other disturbance of the material. The material is removed without the creation of a visible residue.
3. The asbestos-containing material is not subject to sanding, cutting, grinding, or abrading during the removal or collection process.
4. The asbestos-containing material does not become a RACM as defined by the asbestos National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61, Subpart M).

It should be noted that asbestos-containing waste generated as a result of these activities must be disposed of as asbestos waste at an authorized waste disposal facility. Questions regarding the disposal of asbestos-containing material within the State of Connecticut should be directed to the Connecticut Department of Environmental Protections at (860) 424-3366.

This interpretation does not relieve the owner of the facility in which these activities are performed, or the operator of these activities from complying with the provisions of all other applicable federal, state, or local regulations.

Matt Meeker
30 Town House Road
2nd Floor
Durham CT 06422

09/30/2026

**PRE-DEMOLITION LEAD BASED PAINT XRF SCREENING
VACANT SINGLE FAMILY RESIDENCE
51 MAIN STREET, DURHAM CT
CS# 215-756, 09/15/2026, PAGE 1 OF 7**

CONTENTS	PAGES
Table of Contents	1
Introduction	2-3
Inspection Report Synopsis	4
Recommendations	5-7

Attachments:

- XRF Data Sheets (3 pages)
- Site Reference Drawings (3 pages)
- XRF Quality Evaluation Sheet (1 page)
- Hazardous Waste Evaluation Sheet (1 page)

Report Distribution: Mmeeker@townofdurhamct.org

File Location:

NAS AAUM-Reports\LeadInsp\BH\BH-XRFSurvey2026.doc

**PRE-DEMOLITION LEAD BASED PAINT XRF SCREENING
VACANT SINGLE FAMILY RESIDENCE
51 MAIN STREET, DURHAM CT
CS# 215-756, 09/15/2026, PAGE 2 OF 7**

INTRODUCTION

EXECUTIVE SUMMARY:

Lead Based Paint (as defined by CT DPH and EPA regulations) was detected within the scope of this inspection. Because a toxic level of lead based paint was detected, a Hazardous Waste Evaluation was done per CT DEEP regulations to determine if the waste products from the renovation are potentially a hazardous waste. A modified "Knowledge of Process" technique (XRF) used indicates that the waste products from this renovation, are **likely** to be considered hazardous waste. See Recommendations for details.

Please see recommendations for details.

BUILDING DESCRIPTION:

The subject building is a vacant single family residence, of wood frame construction, totaling approximately 1800 SF and built in 1850.

SCOPE OF WORK:

Lead Pre-Demolition Inspection as directed by Matt Meeker of the Town of Durham. It is our understanding there are plans to demolish the vacant single family residence. You would like all accessible materials tested for lead based paint prior to the demolition. Since the house was built in 1850, you would also like the required Asbestos Inspection prior to demolition as well. No other materials or areas were within the scope of this inspection.

QUALIFICATIONS: The Inspection was conducted by:

Brian Hoang, CT DPH Certified DPH Lead Inspector #002241, Radiation Safety Training, RMD 5/09/17

Chem Scope's DPH lead license # is CC000164.

This investigation and information provided in this report depends 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.

**PRE-DEMOLITION LEAD BASED PAINT XRF SCREENING
VACANT SINGLE FAMILY RESIDENCE
51 MAIN STREET, DURHAM CT
CS# 215-756, 09/15/2026, PAGE 3 OF 7**

INTRODUCTION (CONT)

METHOD OF TESTING:

Spectrum Analyzer XRF (x-ray fluorescence). Instrument used: Viken PB200i, Serial # 2902. The unit source (Cobalt 57) for unit 2902 was installed January 2026. The XRF detects paint in all layers down to the painted substrate. In other words, if lead paint is painted over with new paint, the lead paint is still detected by this procedure. When paint is covered with metal or plastic trim such as siding or by carpet, the lead paint is usually not detectable. This instrument is registered with the State of Connecticut Dept. of Energy and Environmental Protection and is Generally Licensed under the NRC. This is one of the two methods, which are approved under the CT Dept. of Public Health (DPH) regulations. This is a non-destructive test.

TEST PARAMETERS FOR XRF TESTING USING THIS INSTRUMENT:

XRF readings of 1.0 mg/cm² or higher are lead-based paint.

XRF CALIBRATION CHECK:

Standard Reference Material (SRM) paint film nearest to 1.0 mg/cm² within the National Institute of Standards and Technology (NIST) SRM is used to calibrate the XRF. Calibration Readings are taken at the beginning and end of a job and every four (4) hours during the job with three (3) readings per set. The expiration date of the standard used is 7/1/20.

QUALITY CONTROL PROCEDURES:

The XRF is used in accordance with Manufacturer's Performance Characteristics Sheet and instructions. See test data attached for details. Ten (or if <10, then the total number of tests conducted) testing combinations for re-testing from each unit are selected and checked in either 15 second or 60 second readings.

STATEMENT ON ACCURACY:

The XRF Calibration checks were acceptable with each of the three (3) readings before, during (if applicable) and after the testing between 0.7 mg/cm² and 1.3 mg/cm². See attached XRF data sheets for documentation of proper calibration check sequence.

REPORT CONVENTIONS:

Rooms are sometimes given arbitrary numbers to avoid ambiguity. Please refer to the enclosed schematic drawings of the site. Samples are referenced by the side of the building they are facing, as indicated on the drawings. Side A is the street side (front), Side B is the left side, Side C is the rear and Side D is the right side.

**PRE-DEMOLITION LEAD BASED PAINT XRF SCREENING
VACANT SINGLE FAMILY RESIDENCE
51 MAIN STREET, DURHAM CT
CS# 215-756, 09/15/2026, PAGE 4 OF 7**

INSPECTION REPORT SYNOPSIS

LOCATION NAME AND ADDRESS: Vacant Residential Structure
51 Main Street, Durham CT

INSPECTION DATE(S): 09/15/2026

XRF Testing Results *The following surface(s) and/or component(s) contained a toxic level of Lead based paint (at or above 1.0 mg/cm² as defined in CT DPH regulations 19a-111-1 through 11 and HUD guidelines as measured on site by an X-ray fluorescence analyzer):*

Component/Description	Location	Defective?
Off-white painted wooden siding	Exterior -Throughout	Yes
White painted wooden column	Exterior – Porch Side A	Yes
Green painted wooden door	Exterior – Porch Side A	Yes
White painted wooden doorstop	Exterior – Porch Side A	No
Gray painted wooden floor	Exterior – Porch Side A	Yes
White painted wooden window components	Interior – Throughout 1 st and 2 nd Floor	No
Tan painted wooden ceiling	Interior - 1 st Floor – 1-4 CL	No
Off-white painted metal ceiling	Interior – 1 st Floor – 1-2	Yes
White painted wooden door components	Interior – 2 nd Floor – 2-3	No

NOTES:

Defective Surface as defined by CT DPH regulations 19a-111-1 through 11 which means peeling, flaking, chalking, scaling or chipping paint; or paint over crumbling, cracking or falling plaster, or plaster with holes in it; paint over a defective or deteriorating substrate; paint that is damaged in any manner such that a child can get paint from the damaged area.

OSHA 1926.62 Definition: Lead means metallic lead, all inorganic lead compounds, and organic lead soaps. Excluded from this definition are all other organic lead compounds. OSHA regulates any detectable amount of lead.

EPA/HUD Definition: Lead-based paint means paint or other surface coatings that contain lead equal to or in excess of 1.0 milligram per square centimeter or 0.5 percent by weight.

CT DPH Definition: A toxic level of lead is “when present in a dried paint on or in a residential dwelling contains equal to or greater than 0.50 percent lead by dry weight, or equal to or greater than 1.0 milligrams lead per square centimeter”

Not all painted surfaces were tested. Consequently, if a surface was not tested assume it contains Lead until proven otherwise. See attached data sheets for a list of surfaces tested.

**PRE-DEMOLITION LEAD BASED PAINT XRF SCREENING
VACANT SINGLE FAMILY RESIDENCE
51 MAIN STREET, DURHAM CT
CS# 215-756, 09/15/2026, PAGE 5 OF 7**

RECOMMENDATIONS

Hazardous Waste Evaluation: Because toxic levels of lead were detected, a Hazardous Waste Evaluation was done to determine if the waste products from the demolition are potentially a hazardous waste. The evaluation was done using a "knowledge of process" technique as described by the CT Department of Energy and Environmental Protection (DEEP). This is one of six methods outlined in the CT DEEP Guidance for the Management and Disposal of Lead-Contaminated Materials Generated in the Lead Abatement, Renovation and Demolition Industries" (11/4/94) for hazardous waste evaluation. For this method, data gathered during the XRF inspection is used to calculate for hazardous waste vs. other methods that require TCLP (Toxicity Characteristic Leaching Procedure) testing. This method is the least expensive but has limited applicability. The other methods include the following:

- Screen, sample and segregate (need XRF data)
- Composite-Sample and Demolish (TCLP test and destructive testing required)
 - Demolish and Test (needs to be done during demolition)

The results of this "knowledge of process" technique for this building was approximately **341.7 mg/kg of lead**. (Refer to enclosed Lead XRF Screen spreadsheet). **These results indicate the debris from the renovation compiled as one waste stream is potentially a hazardous waste.** Results greater than one hundred (>100) mg/kg of lead are potentially considered hazardous waste.

Based on the findings we recommend one of the following three options.

Option A: Remove all of the components (hot spots) that contain lead-based paint prior to renovation. This must be done according to applicable regulations (DEEP and OSHA), by properly trained personnel using proper work practices and procedures including proper disposal as of waste as lead hazardous.

Option B: With additional testing costs, further evaluation of the waste could be made using TCLP testing as outlined above. There are potentially a number of possible strategies which may be employed to assess lead-contaminated debris while attempting to minimizing disposal costs (there is no guarantee that disposal costs will be minimized with further testing). We could provide a separate proposal if needed or this could be done by other qualified persons.

Option C: Properly remove and dispose of all renovation debris as hazardous lead waste.

**PRE-DEMOLITION LEAD BASED PAINT XRF SCREENING
VACANT SINGLE FAMILY RESIDENCE
51 MAIN STREET, DURHAM CT
CS# 215-756, 09/15/2026, PAGE 6 OF 7**

RECOMMENDATIONS (CONT)

The OSHA lead-in-construction standard (29 CFR 1926.62) was intended to apply to any detectable concentration of lead in paint, as even small concentrations of lead can result in unacceptable employee exposures depending upon on the method of removal and other workplace conditions. Since these conditions can vary greatly, the lead-in-construction standard was written to require exposure monitoring to ensure that employee exposures do not exceed the action level, by doing an assessment.

OSHA 1926.62 (worker protection): Work that disturbs surfaces or components that contain lead must be done according to OSHA regulation 1926.62. Each employer who has an operation covered by 1926.62 shall initially determine if any employee may be exposed to lead at or above the Action Level (AL) and must make sure that employees are not exposed above the Permissible Exposure Limit (PEL). Currently, the AL is set at 30 micrograms of lead per cubic meter of air ($\mu\text{g}/\text{m}^3$) and the PEL is 50 $\mu\text{g}/\text{m}^3$. At a minimum the following is required of employers whose employees are handling lead or are in the area where lead is being disturbed.

1. Train employees to the dangers of lead and to lead safe work practices including proper hygiene practices
2. Maintain Records

We recommend that a professional contractor be used who is trained and equipped to deal with lead. The general procedure is described below. You must also refer to the OSHA standard (CFR 29 1926.62) for more details.

**PRE-DEMOLITION LEAD BASED PAINT XRF SCREENING
VACANT SINGLE FAMILY RESIDENCE
51 MAIN STREET, DURHAM CT
CS# 215-756, 09/15/2026, PAGE 7 OF 7**

RECOMMENDATIONS (CONT)

ASSESSMENT:

For personal sampling, use NIOSH Method 7082 during actual work disturbing lead. Call ChemScope for assistance with the personal air sampling and further help you may need with the project. During the assessment, workers must be properly protected and trained according to CFR 29 1926.62. Minimum required controls include respirators, protective clothing, change area and hand washing. Additional controls may be needed.

Once monitoring results are available, the concentrations determined by the personal samples will determine the level of protection required by OSHA.

OSHA 1926.62 (worker protection): Work that disturbs surfaces that contain any detectable amount of lead such as is the case for this work must be done according to 1926.62. OSHA requires employers to conduct air sampling on workers disturbing lead to establish exposure levels to lead for those workers. The recorded levels are then compared to the OSHA standards: the action limit (AL), 30 micrograms of lead per cubic meter of air (30 µg/m³), and the PEL, 50 µg/m³.

At a minimum the following is required even for air sample results below the action level (this is known as Category 1):

CATEGORY 1 (BELOW AL)

1. Train employees
2. Conduct Exposure Monitoring (air sampling, as mentioned above)
3. Maintain Records

CATEGORY 2 (BETWEEN AL AND PEL)

OSHA regulations require; same as category I, plus: Provide respirator at employee request, conduct periodic exposure monitoring, conduct blood lead monitoring, conduct more training.

CATEGORY 3 (ABOVE THE PEL)

OSHA Regulations require; same as category I and II, plus all the other requirements of 1926.62 for work above the PEL including:

Lead compliance plan, respirator, protective clothing, continued monitoring, housekeeping, hygiene facilities, washing. For dusty operations, a negative pressure containment and a shower decontamination unit is usually needed.

NOTE: Training for Category 1 should include a one day lead awareness course. We advise to do this training before the initial assessment.

Please let me know if you have any questions.

Sincerely,



Brian Hoang
Lead Inspector

Site Name: Vacant Single Family Residence Date of Inspection: 9/15/26Site Address: 51 Main Street, Durham CT CS# 215-756Customer Name: - Town of DurhamCustomer Address: 30 Town House Road 2nd Floor, Durham CT 06422Work Area: Throughout Page 1 of 3Site Description: 2 story Year of Construction: 1850Name of Individual Doing Testing: Brian Haug CT DPH Lic# 2241CO-57 Date Source Installed: June '26 Software version # N/A Serial # 2902

Test #	Clock Time	NIST Calibration Standard	Results QM (mg/CM2)
1	1237	NIST SRM 2573 Red	1.0
2	1237	NIST SRM 2573 Red	1.1
3	1237	NIST SRM 2573 Red	1.0
65	145	NIST SRM 2573 Red	1.0
66	145	NIST SRM 2573 Red	1.0
67	145	NIST SRM 2573 Red	1.1
		NIST SRM 2573 Red	
		NIST SRM 2573 Red	
		NIST SRM 2573 Red	
4	1238		0.0
5	1238		0.0
6	1238	NIST SRM 2570 White (Blank)	0.0
68	146	NIST SRM 2570 White (Blank)	0.0
69	146		0.0
70	146		0.0

Note: each entry represents a single test on the surface indicated.

- Acceptance limits for calibration are 0.7-1.3.
- 1.0 mg/cm² or higher = lead based paint (LBP)
- All values run under Quick Mode (QM), unless noted otherwise under comments above.
- Calibration std SRM 2573 has 1.0 mg/cm² of lead, expiration of std is 7/1/20.
- DEF under comments means the surface has defective lead based paint

INSPECTOR SIGNATURE/Date/REVIEWED BY/Date: [Signature] / 9/15/26 / [Signature] / 10/5/26

Site Name: Vacant Single Family ResidenceDate of Inspection: 9/15/20Site Address: 51 Main Street, Durham CTCS# 215-756Work Area: ThroughoutPage 2 of 3

Test # / Side	Int/Ext	Room #	Component	Defective (Y/N)	Color	Substrate	Results QM (mg/CM2)	LBP (Y/N)	
7 D	Ext		siding	Y	off white	wood	29.1	Y	
8 "	"	"	"	Y	"	"	30	Y	QC
9 "	"	"	Railings	"	"	"	0.0	N	
10 "	"	"	"	"	"	"	0.0	"	QC
11 A	"	Porch	Column	"	white	"	3.0	Y	
12 "	"	"	"	"	"	"	3.7	Y	QC
13 "	"	"	Door	"	green	"	8.9	Y	
14 "	"	"	"	"	"	"	7.4	Y	QC
15 "	"	"	Door stop	N	white	"	4.6	Y	
16 "	"	"	"	"	"	"	5.2	Y	QC
17 "	"	"	Floor	Y	gray	"	8.0	Y	
18 "	"	"	"	"	"	"	8.0	Y	QC
19 B	"	"	window	"	white	"	0.8	N	
20 "	"	"	"	"	"	"	0.8	"	QC
21 "	Int	1-1	" well	"	gray	"	0.8	"	
22 "	"	"	" "	"	"	"	0.9	"	QC
23 D	Ext		Door	"	white	metal	0.2	"	
24 "	"	"	"	"	"	"	0.0	"	QC
25 "	"	"	Door stop	N	"	wood	0.0	"	
26 "	"	"	"	"	"	"	0.0	"	QC
27 A	Int	1-1	Wall	"	"	Plaster	0.0	"	
28 "	"	"	Window case	N	"	wood	2.7	Y	
29 "	"	"	Window sash	"	"	"	1.7	Y	
30 C	"	"	Floor	"	stained	"	0.0	N	
31 B	"	"	Shelf	"	tan	wood	0.1	"	
32 "	"	"	ceiling	"	white	SP	0.3	"	
33 "	"	"	Stair stringer	"	"	wood	0.0	"	
34 "	"	"	Stair railing	"	"	"	0.0	"	
35 C	"	1-2	Door case	"	yellow	"	0.0	"	

Signature: Date: 9/15/20

Site Name: **Vacant Single Family Residence**Date of Inspection: 9/15/26Site Address: **51 Main Street, Durham CT**

CS# 215-756

Work Area: **Throughout**Page 3 of 3

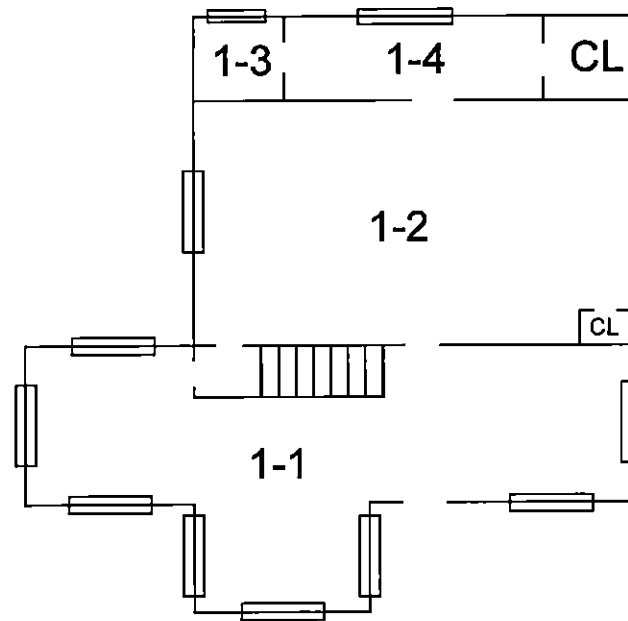
9/15/26 BU

Test # / Side	Int/Ext	Room #	Component	Defective (Y/N)	Color	Substrate	Results QM (mg/CM2)	LBP (Y/N)	
36	P	Int	1-4	Door	N	white	wood	0.0	N
37	"	"	"	Door Case	"	"	"	0.0	"
38	"	"	"	Door Stop	"	"	"	0.0	"
39	"	"	1-4 CL	Ceiling	"	tan	"	13.4	Y
40	A	"	1-4	"	"	white	SR	0.0	N
41	D	"	1-2	"	Y	off white	metal	12.4	Y
42	C	"	1-2	Cabinet	N	Yellow	wood	0.0	N
43	"	"	"	cabinet Door	"	"	"	0.0	"
44	A	"	1-3	wall	"	pink	SR	0.1	"
45	"	"	"	Floor	"	off white	vinyl	0.1	"
46	"	"	2-1	wall	"	blue	plaster	0.1 0.1	"
47	"	"	"	Ceiling	"	white	SR	0.0	"
48	D	"	"	Window Case	"	"	wood	4.9	Y
49	"	"	"	Window Sash	"	"	"	0.1	N
50	"	"	"	Window sill	"	"	"	1.0	Y
51	B	"	2-2	wall	"	"	plaster	0.3	N
52	"	"	"	Ceiling	"	"	SR	0.0	"
53	"	"	2-3	Floor	"	stained	wood	0.0	"
54	"	"	"	SR	"	white	SR	0.1	"
55	A	"	"	Door	"	"	wood	0.6	"
56	"	"	"	Door Stop	"	"	"	3.4	Y
57	"	"	"	Door Case	"	"	"	8.2	Y
58	"	"	2-7	wall	"	Blue	SR	0.2	N
59	"	"	"	Ceiling	"	white	"	0.2	"
60	C	"	"	Door	Y	"	wood	0.5	"
61	"	"	"	Door Inset	N	"	"	0.0	"
62	"	"	"	Door Stop	"	"	"	0.1	"
63	C	"	"	Buxbeam?	"	"	"	0.0	"
64	"	"	1-1	Ceiling	"	off white	plaster	0.2	"

Signature: Date: 9/15/26

SIDE C

SIDE D



SIDE A

LEGEND OF SYMBOLS	
NOTATIONS	
DRAWN BY: Brian Hoang	
ChemScope Inc.	
DATE: 01/24	
DRAWING SCALE NOT TO SCALE DATE:	REVISION NUMBER

**Lead XRF Pre-Demolition Inspection
Vacant Single Family Residence
51 Main Street, Durham CT
CS# 215-756, 09/15/2026
SIDE C**

**Lead XRF Pre-Demolition Inspection
Vacant Single Family Residence
51 Main Street, Durham CT
CS# 215-756, 09/15/2026
SIDE C**

SIDE C

SIDE B

SIDE D

INDEXED OF SYMBOLS

NOTATIONS

Created by **Brian Hoang**

ChemScope Inc.

QUESTIONS

ENTER-CITY NAME

Planning 11/20/2011

NOT TO SCALE

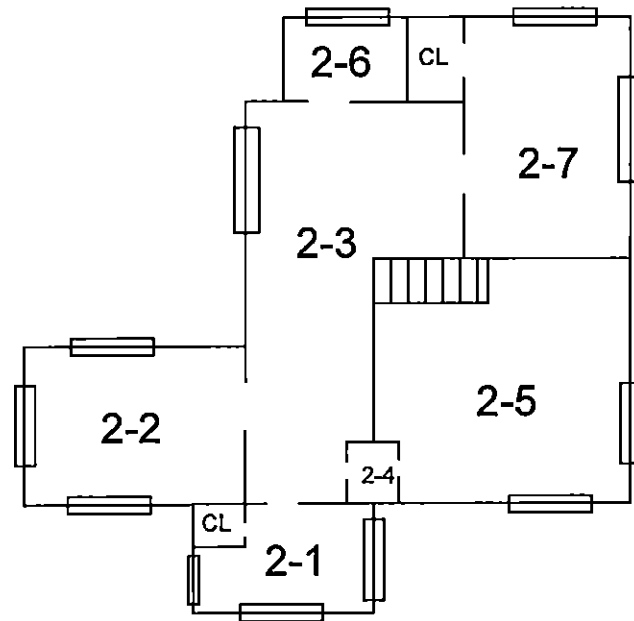
10-10

Roof

SIDE A

ChemScope Inc.
 Lead XRF Pre-Demolition Inspection
 Vacant Single Family Residence
 51 Main Street, Durham CT
 CS# 215-756, 09/15/2026
 SIDE C

SIDE B



SIDE D

2nd Floor

SIDE A

LEGEND OF SYMBOLS

NOTATIONS

Drawn by: Brian Hoang

ChemScope Inc.

Project File

Inspector's Name

Inspector's Email

NOT TO SCALE

Date

EVALUATING THE QUALITY OF XRF:					
Site Name: Vacant Single Family Residence				CS# 215-756	
Site Address: 51 Main Street, Durham CT				Date: 9/15/2026	
	Location	Original Reading	Retest Reading	Square of Original Reading	Square of Retest Reading
1.	Exterior - Siding - Side D	29.9	30.0	894.01	900.00
2.	Exterior - Railing - Side D	0.0	0.0	0.00	0.00
3.	Exterior - Porch Column - Side A	3.0	3.3	9.00	10.89
4.	Exterior - Porch Door - Side A	8.9	7.4	79.21	54.76
5.	Exterior - Porch Door Stop - Side A	4.6	5.2	21.16	27.04
6.	Exterior - Porch Floor - Side A	8.0	8.0	64.00	64.00
7.	Exterior - Window - Side B	0.8	0.8	0.64	0.64
8.	Interior - 1-1 - Window Well - Side B	0.8	0.9	0.64	0.81
9.	Exterior - Door - Side D	0.2	0.0	0.04	0.00
10.	Exterior - Door Stop - Side D	0.0	0.0	0.00	0.00
Sum of ten squared averages ("C"):				1068.70	1058.14
		"C" times 0.0072 ("D"):		7.69464	7.61861
		"D" plus 0.032 ("E"):		7.72664	7.650608
		Square root of "E" ("F")		2.77968	2.765973246
		"F" times 1.645 (Retest Tolerance Limit):		4.5726	4.5500
Average of the ten XRF Readings:				5.62	5.56
Absolute difference of the two averages:				0.0600	
If the difference is less than the Retest Tolerance Limit, the inspection has passed the					

Site Name: Vacant Residence
 Site Address: 51 Main Street, Durham, CT

CS# 215-756
 Date: 9/15/2026

Building Component	Average XRF Readings		Material Mass g/cm ²	mg Lead/kg of Mass		Component Est % of Mass	Weighting Factor	Weighting Factor x mg/kg of lead	
	w/ hot spots	w/o hot spots		w/hot spots	w/o hot spots			w/ hot spots	w/o hot spots
Stained/Unpainted Wood	0.00	0.00	0.6	0.0	0.0	10	0.10	0.0	0.0
Painted Wood	4.10	0.20	0.6	6833.3	325.0	5	0.05	341.7	16.3
Flooring	0.00	0.10	0.2	0.0	500.0	2	0.02	0.0	10.0
Roofing	0.00	0.00	0.55	0.0	0.0	5	0.05	0.0	0.0
Concrete/Masonry	0.00	0.00	60	0.0	0.0	55	0.55	0.0	0.0
Sheetrock	0.00	0.11	0.45	0.0	248.9	8	0.08	0.0	19.9
Plaster	0.00	0.13	1	0.0	130.0	10	0.10	0.0	13.0
Metal	recycle	recycle				5	0.10	0.0	0.0
Total						100	Total*	341.7	59.2

*Compared to criterion of > 100 mg/kg lead - (DEP: "Guidance for the Management and Disposal of Lead-Contaminated Materials Generated in the Lead Abatement, Renovation and Demolition Industries" (11/4/94)

A value by this method of >100 mg/kg lead indicates the material is potentially a hazardous waste.

NOTES:

Wood Trim 3/4" = .60 g/cm²

SR 5/8" = .45 g/cm²

Plaster (typical two coat) = 1 g/cm²

Brick (one course - 2 1/4") = 32 g/cm²

Brick (two course - 4 1/2") = 64 g/cm²

Concrete 4" = 60 g/cm²

Cinder Block 5" = 60 g/cm²

Ceramic Tile (typical floor) : 1.3 g/cm²

Ceramic Tile (typical wall) = 1.5 g/cm²

Linoleum = 0.2 g/cm²

Carpet = 0.2 g/cm²

To get g/cm²:

1. Weight the material and convert to grams (453 g = 1 lb)
2. Measure the material surface in CM to get cm²
3. Grams divided by CM² = g/cm²