

August 11, 2022

Mr. Robert O'Connor Executive Office of Energy and Environmental Affairs 100 Cambridge Street, 9th Floor Boston, Massachusetts 02114

RE: Report of Pre-Demolition Hazardous Building Material Survey - DRAFT Lampson Brook Farm Belchertown, Massachusetts

Dear Mr. O'Connor:

Weston & Sampson Engineers, Inc. (Weston & Sampson) is pleased to present this report of our Hazardous Building Materials (HBM) survey conducted for the 10-acre former Dairy Farm Complex and two Community Farm barns of the Lampson Brook Farm in Belchertown, Massachusetts. The goal of the project was to establish estimated demolition, removal and repair costs for potential bidders to purchase the property. It is our understanding a more thorough assessment and site plan will be performed and established prior to actual restoration of the site.

Within the HBM survey area, Weston & Sampson performed Pre-Demolition HBM sampling to identify suspect asbestos-containing materials (ACMs) and lead-based paint/coatings.

INTRODUCTION

The Lampson Brook Farm consists of 24 distinct buildings across the 10-acre site. Many Site buildings have experienced severe degradation and have been designated for demolition and were assessed as part of the HBM. Those buildings include:

- Dairy barn#1
- Dairy barn#2
- Dairy barn#3
- Loafing barn
- Bullpen

- Calf hospital
- Greenhouse
- Milk room
- Silos #1, #2, #4
- Root Cellar

The remaining buildings that have potential future use were assessed in the separate architectural and structural report also issued by Weston & Sampson. Those buildings include:

- Molasses shed
- Haybarn
 - Manure shed
- Storage shed
- Silos # 3, #5, #6
- Community barns #1 and #2

A photo log has been provided as Attachment A.

SURVEY RESULTS

Asbestos Survey

The asbestos sampling was performed by Craig Miner and Lewis Tamaccio of Weston & Sampson, Massachusetts-licensed inspectors (MA Asbestos Inspector License #Al000014 and #Al000021) on February 9, 2022 and June 22, 2022. A total of 62 samples of suspect asbestos-containing materials were collected. Weston & Sampson performed the bulk sampling on Site according to methods outlined in the U.S. Environmental Protection Agency (EPA) guidance document titled, "Guidance for Controlling Asbestos-Containing Materials in Buildings" (Document No. 560/5-85/024). Samples were analyzed via Polarized Light Microscopy (PLM) method EPA 600/R-93/116 by EMSL Analytical, Inc. (EMSL) in Woburn, Massachusetts and Meriden, Connecticut. Based on a review of the results of the PLM analyses, no samples were selected to be further analyzed via Transmission Electron Microscopy (TEM).

The EPA and Massachusetts Department of Environmental Protection (MassDEP), consider materials identified to contain greater than or equal to 1% asbestos to be ACMs. Asbestos was detected in several of the building materials sampled by Weston & Sampson in concentrations greater than or equal to 1%. The analytical results for all ACM samples are summarized in Table 1. A copy of the laboratory analytical report is included in Attachment B.

Several buildings (Dairy Barns #1 and #2, Root Cellar, Bull Pen Buildings) were unsafe to enter completely due to structural damage. However, based on other sample results, the age of construction and suspect ACM observed within the debris piles the contents of those buildings should be assumed to contain ACM until sample results prove otherwise. Excavations were hand dug alongside foundations to assess for damp proofing but none was observed.

Material	Location	Approximate Quantity	Condition
Miscellaneous interior debris	Dairy Barns #1 and #2	85 Tons	Poor
Miscellaneous debris	Bull Pen Buildings	150 Tons	Poor
Miscellaneous debris	Root Cellar	365 Tons	Poor
Skim coat on walls	Calf Hospital	2,000 SF	Damaged
Pipe/fitting insulation debris	Calf Hospital	2,000 SF	Poor
Window caulk/glazing	Calf Hospital	250 LF	Damaged
Skim coat on walls	Milk Room	1,675 SF	Damaged
Transite shingle	Dairy Barn #3	6,500 SF	Good
Window caulk/glazing	Dairy Barn #3	45 windows	Damaged
Transite shingle	Manure Barn	5,000 SF	Damaged/Missing

The following is a summary of ACMs identified or assumed during the Weston & Sampson HBMI:

DEP regulations require that ACM be removed from a facility being demolished or renovated prior to any activity that would disturb such material.



Asbestos Survey Limitations

Our survey did not include an exploratory demolition for the evaluation of potential ACMs associated with underground utility lines or conduits, soils, or other materials that could be hidden in wall cavities or below flooring. In addition to the above listed materials, other suspect ACMs may be present at the Site that were not accessible by Weston & Sampson during our survey. Some suspect ACMs were not able to be sampled due to the unsafe building conditions. Weston & Sampson recommends that if any suspect materials are uncovered during demolition activities that were not identified during the survey, that the materials be sampled and analyzed for asbestos content prior to removal.

Per MassDEP regulations, the owner/operator must maintain a copy of this written asbestos survey report at the subject facility for at least two years. If the facility is unstaffed or if it is demolished, the owner/operator must maintain a copy at their regular place of business.

Lead Paint Screening

Paint chip samples were collected from representative painted/coated surfaces at the Site. Limited painted surfaces were accessible for sampling during the HBM survey. Certain buildings/surfaces were completely unpainted and others were inaccessible due to structural damage.

The samples were submitted to EMSL of Cinnaminson, New Jersey for analysis for total lead via EPA Method SW846-7000B using Atomic Absorption Spectrometry. The LBP analytical results are summarized in the attached Table 2.

All of the five samples were determined to be lead containing. Four of the five samples were characterized as lead-based paint (>0.5 %) per HUD guidelines and contained lead levels high enough to potentially impact disposal. It appears that painting history within the structures is inconsistent, but any painted materials should be assumed to be lead containing for the purposes of worker protection and waste disposal. Given the high levels of lead present in some of the samples we recommend Toxicity Characteristic Leaching Procedure (TCLP) testing prior to demolition to help determine waste disposal streams.

A copy of the laboratory analytical report is included in Attachment B.

Regulatory Implications and Regulations

It is important to be aware of the relevant regulations and implications to construction-related activities. The Occupational Safety and Health Administration (OSHA) defines any detectable concentration of lead in paint as a potential lead exposure hazard to workers doing construction/demolition-type work on these surfaces, as even small concentrations of lead can result in unacceptable employee exposures depending upon 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 or the use of historical or objective data to ensure that employee exposures do not exceed the Action Level of 30 μ g/m3 (micrograms per cubic meter) of air.

OSHA requires that lead exposure monitoring must be performed by the contractor if surfaces coated with LBP are impacted during demolition. Contractors and employers of staff who may disturb these materials are obligated to perform a 'negative exposure assessment' in accordance with OSHA regulations to document that exposure to lead does not exceed the OSHA Action Level, even if only minimal levels of lead are present in these materials.

OSHA states that until the employer performs an exposure assessment (or can supply prior data



regarding the same type of work that may exempt them from the standard) and documents that employees are not exposed above the permissible exposure limit (PEL) of greater than 50 μ g/m3 of air, the employer must treat employees as if they were exposed above the PEL for the following operations:

- manual demolition of structures, manual scraping, manual sanding, and use of heat gun where lead-containing coatings or paints are present;
- abrasive blasting enclosure movement and removal;
- power tool cleaning;
- lead burning;
- using lead-containing mortar or spray painting with lead-containing paint;
- abrasive blasting, rivet busting, or welding, cutting, or burning on any structure where leadcontaining coatings or paint are present;
- cleanup activities where dry expendable abrasive are used; and
- any other task the employer believes may cause exposure in excess of the PEL.

The contractor must provide respiratory protection, personal protective equipment (PPE), change areas, hand-washing facilities, biological monitoring, and training until an exposure assessment has determined that the work activity will result in an exposure below the PEL. Additional requirements under this standard include a written compliance program as well as record keeping.

COST ESTIMATES

Assuming a 20% contingency, we estimate the cost to perform asbestos abatement and demolition to be approximately \$910,000 to \$1,190,000. Additionally, abatement costs may be affected if multiple phases of abatement are conducted compared to a single project. This includes removal and disposal of the approximately 5,000 SF of transite shingles located on the Manure Barn that is not scheduled for demolition. These shingles are damaged or missing in many places. The abatement of asbestos-containing materials not affected by renovation or demolition is not generally required unless the material is damaged.

The cost does not include design, bidding and construction phase services; these are estimates for the contractor bid pricing. Those costs typically add \sim 20% to the project.

Based on the estimated volumes and types of waste present in the buildings that are scheduled for demolition we estimate the cost to prepare a Waste Management Plan to be approximately \$6,000.



REPORT LIMITATIONS

This document is not intended to be, nor will it suffice to serve as a bid document or specification. Additional hazardous building materials may be present within buildings or located elsewhere on the property.

This concludes our Pre-Demolition HBM report. We appreciate the opportunity to assist you with this project. If you have any questions or require any additional information, please do not hesitate to contact either of the undersigned at (800) 726-7766.

Very truly yours,

WESTON & SAMPSON ENGINEERS, INC.

Craig Miner, LEED AP Team Leader Paul Uzgiris, P.E. Senior Team Leader

Attachments:

Analytical Tables Photo Log Laboratory Analytical Reports

westonandsampson.com Offices in: MA, CT, NH, VT, NY, NJ, PA, SC & FL



TABLE 1 - ASBESTOS ANALYTICAL RESULTS LAMPSON BROOK FARM BELCHERTOWN, MA

SAMPLE ID	SAMPLING DATE	MATERIAL DESCRIPTION	LOCATION	ASBESTOS RESULT (% Asbestos)
01A-B	2/9/2022	Sealant	Silo 1	10% Chrysotile
02A-B	2/9/2022	Roof Shingle	Dairy Barn Roofs	15% Chrysotile
03A-B	2/9/2022	Window sealant (caulk/glazing)	Greenhouse	NAD
04A-B	2/9/2022	Transite Siding	Manure Shed	15% Chrysotile
05A-B	2/9/2022	Paper under Siding	Loafing Barn	NAD
06A	2/9/2022	Plaster Skim Coat	Loafing Barn	NAD
07A	2/9/2022	Plaster Base Coat	Loafing Barn	NAD
08A	2/9/2022	Red Paper under Siding	Loafing Barn	NAD
09A	2/9/2022	Transite Debris	Dairy Barn 3	15% Chrysotile
10A	2/9/2022	Window Glazing	Dairy Barn 3	2% Chrysotile
11A	2/9/2022	Window Glazing	Dairy Barn 3	NAD
12A	2/9/2022	Skim on Exterior	Dairy Barn 3	NAD
13A	2/9/2022	Exterior Plaster Wall	Bull Pen	NAD
14A	2/9/2022	Roof Shingle	Loafing Barn	NAD
15A	2/9/2022	Roof Shingle in Debris Pile	Loafing Barn	NAD
16A	2/9/2022	Skim on Exterior	Dairy Barn 2	NAD
17A	2/9/2022	Plaster Wall	Dairy Barn 2	NAD
18A	2/9/2022	Tar Paper on Roof	Dairy Barn 2	NAD
19A	2/9/2022	Roof Shingle	Manure Shed	15% Chrysotile
20A	2/9/2022	Sealant	Silo 3	10% Chrysotile
21A	2/9/2022	Exterior Plaster Wall	Milk Barn	NAD
22A	2/9/2022	Roof Shingle	Milk Barn	NAD
24A	2/9/2022	Window Glazing	Calf Hospital	2% Chrysotile
25A	2/9/2022	Pipe/fitting insulation debris	Calf Hospital	10% Amosite, 50% Chrysotile
A-101 A-G	6/22/2022	Skim Coat - Grey	Dairy 2 - Plaster Wall Interior	NAD
A-102 A-G	6/22/2022	Rough Coat - Grey	Dairy 2 - Plaster Wall Interior	NAD
A-103 A-G	6/22/2022	Stucco Wall Coating - Grey	Dairy 2/3 Exterior Wall (Rough)	NAD
A-104 A-F	6/22/2022	Skim Coat on Exterior Concrete - Grey	Dairy 2/3 Exterior Wall (Smooth)	NAD
A-105 A-C	6/22/2022	Skim Coat - White	Loafing Barn Corridor	NAD
A-106 A-C	6/22/2022	Rough Coat - Grey	Loafing Barn Corridor	NAD

NOTES:

NAD = None Detected

EPA defines an ACM as a material that contains greater than 1 percent (%) asbestos.

TABLE 2 - LEAD ANALYTICAL RESULTS LAMPSON BROOK FARM BELCHERTOWN, MA

SAMPLE ID	SAMPLING DATE	MATERIAL DESCRIPTION	LOCATION	LEAD CONCENTRATION (%WT)
LBF-L-01	6/22/2022	Off-White Paint	Dairy 2 - Door Frame	0.18
LBF-L-02	6/22/2022	White Paint	Dairy 2 - Exterior	15
LBF-L-03	6/22/2022	White Paint	Dairy 3 - Barn Door	15
LBF-L-04	6/22/2022	Grey Paint	Dairy 2 - Window	29
LBF-L-05	6/22/2022	White Paint	Loafing Barn Corridor - Door Frame	28

NOTES:

BOLD - Lead detected

HUD defines Lead-Based Paint as lead concentrations detected greater than 0.5%.

EMSL	EMSL Analytical, Inc. 5 Constitution Way, Unit A Woburn, MA 01801 Tel/Fax: (781) 933-8411 / (781) 933-8412 http://www.EMSL.com / bostonlab@emsl.com	EMSL Order: Customer ID: Customer PO: Project ID:	132204013 WESA62
Attention:	Craig Miner	Phone:	(978) 532-1900
	Weston & Sampson Engineers, Inc.	Fax:	(978) 977-0100
	55 Walkers Brook Drive	Received Date:	06/07/2022 9:55 AM
	Suite 100v	Analysis Date:	06/14/2022
	Reading, MA 01867	Collected Date:	
Project:	Lampson Farm / MA		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
01A	Silo - Sealant	Black		90% Non-fibrous (Other)	10% Chrysotile
132204013-0001		Non-Fibrous			
01B	Silo - Sealant	Homogeneous			Positive Stop (Not Analyzed)
122204012 0002					
024	Dainy Parn 2 Poof	Crov		85% Non fibrous (Other)	15% Chrysotile
1222A	Shingle	Fibrous			15% Chrysolie
132204013-0003		Homogeneous			
02B	Dairy Barn 3 - Roof Shingle				Positive Stop (Not Analyzed)
132204013-0004					
03A	Greenhouse - Caulk/Glazing	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132204013-0005		Homogeneous			
03B	Greenhouse - Caulk/Glazing	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132204013-0006		Homogeneous			
04A	Manure Shed - Transite Siding	Gray Fibrous		85% Non-fibrous (Other)	15% Chrysotile
132204013-0007		Homogeneous			
04B	Manure Shed - Transite Siding				Positive Stop (Not Analyzed)
132204013-0008					
05A	Loatins Barn - Paper Under Siding - Black	Black Fibrous	75% Cellulose 5% Synthetic	20% Non-fibrous (Other)	None Detected
132204013-0009		Homogeneous			
05B	Loatins Barn - Paper Under Siding - Black	Black Fibrous	75% Cellulose 5% Synthetic	20% Non-fibrous (Other)	None Detected
132204013-0010		Homogeneous			
06A	Loatins Barn - Plaster Skim Coat	White Non-Fibrous		100% Non-tibrous (Other)	None Detected
132204013-0011		Homogeneous			
07A	Loatins Barn - Plaster Base Coat	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
132204013-0012		Homogeneous			
08A	Loatins Barn - Red Paper Under Siding	Tan Fibrous	98% Cellulose	2% Non-fibrous (Other)	None Detected
132204013-0013		Homogeneous			
09A	Dairy Barn 3 - Transite Debris	Gray Non-Fibrous		85% Non-fibrous (Other)	15% Chrysotile
132204013-0014		Homogeneous			
10A	Dairy Barn 3 - Window Glazing	White Non-Fibrous		98% Non-fibrous (Other)	2% Chrysotile
132204013-0015		Homogeneous			
11A	Dairy Barn 3 - Window Glazing	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
132204013-0016		Homogeneous			



Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
12A	Dairy Barn 3 - Skim on Ety	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132204013-0017		Homogeneous			
13A	Bull Pen - Ext. Plaster Wall	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14A	Loating Barn - Roof Shingle	Black Fibrous	40% Cellulose	60% Non-fibrous (Other)	None Detected
132204013-0019		Homogeneous			
15A	Loating Barn - Roof Shingle in Debris Pile	Black/Green Fibrous	40% Cellulose	60% Non-fibrous (Other)	None Detected
132204013-0020		Homogeneous			
16A	Dairy Barn 2 - Skim on Ext. Conc	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132204013-0021		Homogeneous			
17A	Dairy Barn 2 - Plaster Wall	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
132204013-0022		Homogeneous			
18A	Dairy Barn 2 - Tau Paper on Roof	Black Fibrous	80% Cellulose	20% Non-fibrous (Other)	None Detected
132204013-0023		Homogeneous			
19A	Manure Shed - Roof Shingle	Gray Fibrous		85% Non-fibrous (Other)	15% Chrysotile
132204013-0024		Homogeneous			
20A	Silo 3 - Black Sealant	Black Non-Fibrous		90% Non-fibrous (Other)	10% Chrysotile
132204013-0025		Homogeneous			
21A	Milk Room - Ext. Plaster	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
132204013-0026		Homogeneous			
22A	Milk Room - Roof Shingle	Black Fibrous	40% Cellulose	60% Non-fibrous (Other)	None Detected
132204013-0027		Homogeneous			
24A	Calf Hospital - Window Glazing	White Non-Fibrous		98% Non-fibrous (Other)	2% Chrysotile
132204013-0028		Homogeneous			
25A	Calf Hospital - TSI Debris	White Fibrous		40% Non-fibrous (Other)	10% Amosite 50% Chrysotile
132204013-0029		Homogeneous			

Analyst(s)

Kevin Pine (26)

P

Steve Grise, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA NVLAP Lab Code 101147-0, CT PH-0315, MA AA000188, RI AAL-139, VT AL998919, ME LB-0039

Initial report from: 06/14/2022 17:29:46

Asbestos Bulk Building Material Chain of Custody EMSL Order Number (Lab Use Only):

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077

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EMSL ANALYTICAL, INC.

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PHONE: (800) 220-3675 FAX: (856) 786-5974

Company: MIPStan + Kannena	EMSL-Bill to: Same Different	C. C. Stationers
Street: 55 Walkers Brook Av	Third Party Billing requires written authorization from thir	d party
City: Roc hoe State/Province: MA	Zip/Postal Code: Country:	a pury
Report To (Name): (2519 Mines	Telephone #:	
Email Address: MINEY CRUSE IN 10M	Fax #: Purchase Order:	
Project Name/Number: Lympson Falm	Please Provide Results: Fax Email	
U.S. State Samples Taken: Turnaround Time (T	CT Samples: Commercial/Taxable Residential/	Tax Exempt
3 Hour 6 Hour 24 Hour 48 Hour	72 Hour 96 Hour 1 Week	2 Week
*For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a pr an authorization form for this service. Analysis completed in accord	emium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be lance with EMSL's Terms and Conditions located in the Analytical Price	asked to sign Guide.
PLM - Bulk (reporting limit)	<u>TEM – Bulk</u>	
PLM EPA 600/R-93/116 (<1%)	TEM EPA NOB – EPA 600/R-93/116 Section 2.5.5.1	
□ PLM EPA NOB (<1%)	NY ELAP Method 198.4 (TEM)	
Point Count w/Gravimetric 400 (<0.25%) 1000 (<0.1%)	TEM % by Mass – EPA 600/R-93/116 Section 2.5.5.2	
	TEM Qualitative via Filtration Prep Technique	
NY ELAP Method 198.1 (friable in NY)	TEM Qualitative via Drop Mount Prep Technique	
NY ELAP Method 198.6 NOB (non-friable-NY)	Other	
OSHA ID-191 Modified Standard Addition Method		
Check For Positive Ston - Clearly Identify Homogenous	Group Date Sampled: 7-9.22	1.1.1.1.1.1.1
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04A-D Manure Hooses	hed transite Siding	
0543 Loating Baum	Paper under Sidins (1410)
OGA	Plasti Skin (04)	- /
07A	huse loat	
480	Red piper under Sil.	11
ONA DANY BOUN 3	Transit, debric	1000
104	Window Glazins	
Client Sample # (s): 01A	25A Total # of Samples:	
Relinquished (Client): Date	e: 6-7-22 Time:	
Received (Lab): Date	e: Time:	
Comments/Special Instructions:		1 Annaly
Controlled Document - Asbestos COC - R6 - 11/29/2012 Page 1 of	pages	55
Dage 1	of 2	$\left(\right)$

OrderID: 132204013



Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 PHONE: (800) 220-3675 FAX: (856) 786-5974

132204013

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	HA #	Sample Location	Material Description
IVA		Darry Barn 3	Skinda Est Window 6 lazan
12A			Skim on Ett.
BA		Bull Pen	Ett. Plaster Nall
14A		Loctins Barn	Rootshingle
15A		1	Rootsminsk in Debuspile
16 A		DRIVY RAVAZ	Skimon Ext long.
17A			Pluster Wall
15A	NI GAL		Jaspapes on 1007
14A		munurshel	Boot Shingle
204		5103	Black Scalant
AIS		Milk Rm.	Ext Plustor
ZZA			Roof Shingle
241	1.760	(alt Hospita)	Window Glazins
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Controlled Document - Asbestos COC - R6 - 11/29/2012

EMSL Order: 242203024 **EMSL** Analytical, Inc. Customer ID: WESA77 165 Gracey Avenue Meriden, CT 06451 EMSL **Customer PO:** Tel/Fax: (203) 284-5948 / (203) 284-5978 Project ID: http://www.EMSL.com / wallingfordlab@emsl.com Attention: Lewis Tamaccio Phone: (860) 513-1473 Weston & Sampson Engineers Inc. Fax: (860) 513-1473 Received Date: 06/22/2022 2:35 PM 712 Brook Street, Suite 103 Rocky Hill, CT 06067 **Analysis Date:** 06/30/2022 **Collected Date:** 06/22/2022 Project: ENG22-0029

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
A-101 A	Dairy 2 - plaster wall interior skim coat-grey	Gray Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
A-101 B	Dairy 2 - plaster wall interior skim coat-grey	Gray Non-Fibrous		12% Quartz 88% Non-fibrous (Other)	None Detected
242203024-0002		Homogeneous			
A-101 C	Dairy 2 - plaster wall interior skim coat-grey	Gray Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
242203024-0003	Doin: 2 plantar wall	Crow		100% Non fibrous (Othor)	Nana Datastad
A-101 D 242203024-0004	interior skim coat-grey	Non-Fibrous		100% Non-hbrous (Other)	None Detected
A 101 E	Dairy 2 - plaster wall	Grav		100% Non-fibrous (Other)	None Detected
242203024-0005	interior skim coat-grey	Non-Fibrous Homogeneous			None Deteoled
A-101 F	Dairy 2 - plaster wall interior skim coat-grey	Gray Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
242203024-0006		Homogeneous			
A-102 A	Dairy 2 - plaster wall interior rough	Gray Non-Fibrous	<1% Cellulose	12% Quartz 88% Non-fibrous (Other)	None Detected
242203024-0007	coat-grey	Homogeneous			
A-102 B	Dairy 2 - plaster wall interior rough	Gray Non-Fibrous Homogeneous		12% Quartz 88% Non-fibrous (Other)	None Detected
242203024-0008		Crow		10% Questa	None Detected
A-102 C 242203024-0009	interior rough coat-grev	Non-Fibrous Homogeneous		90% Non-fibrous (Other)	None Delected
A-102 D	Dairy 2 - plaster wall	Grav		10% Quartz	None Detected
242203024-0010	interior rough coat-grey	Non-Fibrous Homogeneous		90% Non-fibrous (Other)	
A-102 E	Dairy 2 - plaster wall interior rough	Gray Non-Fibrous		10% Quartz 90% Non-fibrous (Other)	None Detected
242203024-0011	coat-grey	Homogeneous			
A-102 F	Dairy 2 - plaster wall interior rough	Gray Non-Fibrous		10% Quartz 90% Non-fibrous (Other)	None Detected
242203024-0012		Homogeneous			New Peterted
A-102 G	Dairy 2 - plaster wall interior rough	Gray Non-Fibrous Homogeneous		90% Non-fibrous (Other)	None Detected
A 101 C	Doin: 2 akim	Crow		2º/ Questa	None Detected
A-101 G 242203024-0014	coat-grey	Non-Fibrous Homogeneous		97% Non-fibrous (Other)	None Detected
Δ.103 Δ	Dairy 3 exterior -	Grav		15% Quartz	None Detected
242203024-0015	stucco wall coating-grey	Non-Fibrous Homogeneous		85% Non-fibrous (Other)	None Delected
A-103 B	Dairy 3 exterior - stucco wall	Gray Non-Fibrous		10% Quartz 90% Non-fibrous (Other)	None Detected
242203024-0016	coating-grey	Homogeneous			



EMSL Order: 242203024 Customer ID: WESA77 Customer PO: Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample Description Appearance A-103 C Dairy 3 exterior - stucco wall Gray Non-Fibrous			
A-103 C Dairy 3 exterior - Gray stucco wall Non-Fibrous	% Fibrous	% Non-Fibrous	% Туре
242202024 0017 costing grov Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
A-103 D Dairy 2 exterior - Gray stucco wall Non-Fibrous		12% Quartz 88% Non-fibrous (Other)	None Detected
242203024-0018 coating-grey Homogeneous			
A-103 E Dairy 2 exterior - Gray stucco wall Non-Fibrous		15% Quartz 85% Non-fibrous (Other)	None Detected
Z42203024-0019 Coating-grey Homogeneous	10/ O-II-1	40% Queste	New Datastal
A-103 F Dairy 2 exterior - Gray stucco wall Non-Fibrous 242203024-0020 coating-grey Homogeneous	<1% Cellulose	88% Non-fibrous (Other)	None Detected
A-103 G Dairy 2 exterior - Gray stucco wall Non-Fibrous		12% Quartz 88% Non-fibrous (Other)	None Detected
242203024-0021 coating-grey Homogeneous			
A-104 A Dairy 2 exterior - wall Gray (smooth) skim on Non-Fibrous		10% Quartz 90% Non-fibrous (Other)	None Detected
242203024-0022 exterior concrete Homogeneous		40% Queste	New Patrickal
A-104 B Dairy 2 exterior - wall Gray (smooth) skim on Non-Fibrous 242203024-0023 exterior concrete Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
A-104 C Dairy 2 exterior - wall Grav	<1% Cellulose	10% Quartz	None Detected
(smooth) skim on Non-Fibrous exterior concrete Homogeneous		90% Non-fibrous (Other)	None Deteoleu
A-104 D Dairy 3 exterior - wall Gray (smooth) skim on Non-Fibrous	<1% Cellulose	12% Quartz 88% Non-fibrous (Other)	None Detected
242203024-0025 exterior concrete Homogeneous			
A-104 E Dairy 3 exterior - wall Gray (smooth) skim on Non-Fibrous		10% Quartz 90% Non-fibrous (Other)	None Detected
A-104 F Dairy 3 exterior - wall Grav		12% Quartz	None Detected
(smooth) skim on Non-Fibrous exterior concrete Homogeneous		88% Non-fibrous (Other)	None Deteoleu
A-105A Loafing barn corridor - White wall plaster skim Non-Fibrous	2% Cellulose	98% Non-fibrous (Other)	None Detected
242203024-0028 coat-white Homogeneous			
A-105B Loafing barn corridor - White wall plaster skim Non-Fibrous	<1% Cellulose	4% Quartz 96% Non-fibrous (Other)	None Detected
242203024-0029 coat-white Homogeneous			
A 4050		50/ Querta	None Detected
A-105C Loaning barn control - white wall plaster skim Non-Fibrous 242203024-0030 coat-white Homogeneous	<1% Cellulose	95% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material			
A-106A Loafing barn corridor - Gray wall plaster rough Non-Fibrous	<1% Cellulose	10% Quartz 90% Non-fibrous (Other)	None Detected
242203024-0031 coat-grey Homogeneous			
A-106B Loafing barn corridor - Gray wall plaster rough Non-Fibrous	<1% Cellulose	10% Quartz 90% Non-fibrous (Other)	None Detected
242203024-0032 coat-grey Homogeneous			
A-106C Loafing barn corridor - Gray wall plaster rough Non-Fibrous 242203024-0033 coat-grey Homogeneous	<1% Cellulose	10% Quartz 90% Non-fibrous (Other)	None Detected



EMSL Analytical, Inc.

165 Gracey Avenue Meriden, CT 06451 Tel/Fax: (203) 284-5948 / (203) 284-5978 http://www.EMSL.com / wallingfordlab@emsl.com EMSL Order: 242203024 Customer ID: WESA77 Customer PO: Project ID:

Analyst(s)

Danny Sandhu (7) Sara Poppa (26)

and Sarally

Danny Sandhu, Asbestos Laboratory Manager or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Meriden, CT NVLAP Lab Code 200700-0,

Initial report from: 06/30/2022 12:30:57

OrderID: 242203024

	Asbestos Bu Chair EMSL Orde	ulk Building Materi n of Custody er Number (lab use only):	al
EMSL ANALYTICAL, INC. LABORATORY-PRODUCTE-TRADENO	242203	024	
Company Name : Wes	ton & Sampson	EMSL Customer ID:	WESA77
Street: 712 Brook St	Ste 103	City: Rocky Hill	State or Province: CT
Zip/Postal Code: 06067	Country: USA	Telephone #: 860-6	16-6451 Fax #:
Report To (Name): Lev	vis Tamaccio	Please Provide Res	ults via: 🗍 Fax 🔳 Email
email Address: tama	ccio.lewis@wseinc.com	Purchase Order Nur	nher:
Client Project ID: EN	622-0029	EMSL Project ID (int	ernal use only):
State or Province Collect	ed: MA	CT only Commer	cial/Taxable 🔲 Residential/Tax Exempt
EMSL-Bill to: 📈 Same	Different - If bill to is different note in	nstructions in comment. Third part	y billing requires written authorization from third party
		$\frac{10}{148} Hour \qquad \boxed{72} Hour$	
	32 Hour TAT available for selec	it tests only; samples must be submitte	d by 11:30am.
	Please call ahead for large p	projects and/or turnaround times 6 hou	rs or løss
			24 600/R-93/116 Section 2 5 5 1
	((1/8)		A 000/(-55/110 Section 2.3.3.)
Point Count \Box 400 (<0.2	5%) [] 1000 (<0.1%)		emi-quantitative)
Point Count w/Gravimetric	\Box 400 (<0.25%) \Box 1000 (<0.1%)	TEM % by Mass – E	PA 600/R-93/116 Section 2.5.5.2
□ NIOSH 9002 (<1%)		TEM Qualitative via	Filtration Prep Technique
NY ELAP Method 198.	 1- friable - NY	TEM Qualitative via	Drop Mount Prep Technique
NY ELAP Method 198.	6 NOB- non-friable - NY	Ot	her tests (please specify)
NY ELAP Method 198.	8- Vermiculite Surfacing Material		
OSHA ID-191 Modified			
EMSL Standard Addition	on Method		
Sampler's Name:	uldentify Homogenous Areas (HA	N) Date_Sampled	ure: In Tur
Sample # HA #	Sample L	ocation	Material Description
A-101 A 1	Daviry 2 . Plas	ter Wall Intuior	Stim Coat . Grey
A-101 B 1	· · · · · · · · · · · · · · · · · · ·		
A-101 C 1	₽ _i ,		L
A-101 D 1	<u></u>		
A-101 E 1			
A-101 F (2		
Client Sample # (s):	k-101 A	- A-106 C	Total # of Samples:
Relinquished by (Client):	by Tann	Date: 6.22-2	
Received by (Lab):		Date:	Time:
Comments/Special Instru	ctions:		
			Berge 1 of 9
Controlled Document – COC-01 / EMSL Analytical, Inc 's (DBA samples to EMSL Analytical	usbestos Bulk – R4 – 09/10/2019 : LA Testing) Laboratory Terms and Condition: Inc. constitutes acceptance and acknowledgm	s are incorporated into this chain of cus ient of all terms and conditions.	stody by reference their entirety. Submission of JUN 2 2 2022

1

Page 1 Of 3



Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (lab use only):

242203024

Additional pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	HA #	Sample Location	Material Description					
A-102 A	2	Dairy 2 - Plaster Wall Interior	Rough Coat - Gray					
A-102B	2							
A-102 C	2							
A-102 D	ょ							
4-102 E	2							
A-102 F	2							
A-102 6	2							
A-101 G	1	11	Skim Coat - Grey					
A-103A	3	Dairy 3 Exterior	Stucco Wall Coating . bry					
A- 103 B	3							
A-103 C	3	1						
A-103 D	3	Duiry 2 Exterior						
A-103 €	3							
A-103 F	3							
A-103 G	3	L	1					
A-104 A	<u> </u>	Duiry 2 Exturior Wall (Smooth)	Skim on Exterior Concrete					
A-104 B	4		11					
A-104 C	4	-						
A-104 D	ч	Duiry 3						
A. 104 E	ч	· · · · · · · · · · · · · · · · · · ·	MEGENVEN					
A-104 F	ч		1) IUN 2 27022					
*Commen	ts/Special In	structions:	By DJ W2 (4:35					

Page 2 of 3 pages

Controlled Document - COC-01 Asbestos Bulk - R4 - 09/10/2019

EMSL Analytical, Inc.'s (DBA: LA Testing) Laboratory Terms and Conditions are incorporated into this chain of custody by reference in their entirety. Submission of samples to EMSL Analytical Inc. constitutes acceptance and acknowledgment of all terms and conditions.

OrderID: 242203024



Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (lab use only):

a 4220 3024

Additional pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	HA#	Sample Location	Material Description					
A-105 4	4	Loafing Born Corridor - Wall Plaster	Skim Coat - white					
A-1056	5		1					
A-105C	5							
A-106 A	- 6		Rough Coat . Grey					
A-106 B	6_							
A-106c	6							
			DERENMEN					
*Commen	ts/Special In	structions:	By by w2 14135					

Page <u>3</u> of <u>3</u> pages

Controlled Document - COC-01 Asbestos Bulk - R4 - 09/10/2019

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EMSL	EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson, NJ 08077 Phone/Fax: (856) 303-2500 / (856) 786-5974 http://www.EMSL.com cinnamir	nsonleadlab@emsl.com	EMSL Order: CustomerID: CustomerPO: ProjectID:	202205738 WESA77
Attn: Lewis Ta	amaccio	Phone:	(860) 513-1473	
Weston & Sampson Engineers Inc		Fax:	(860) 513-1473	
712 Bro	a Sumpeon Engineere mer	Received:	6/23/2022 11:00 AM	
Rocky Hill, CT 06067		Collected:	6/22/2022	
Project: LAMPS	DN FARM / ENG22-0029			

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	a Lab ID Collec	cted Analyzed	Weight	Lead Concentration
LBF-L-01	202205738-0001 6/22/2	2022 6/27/2022	0.2631 g	0.18 % wt
	Site: DAIRY 2 - DOOR	RFRAME		
LBF-L-02	202205738-0002 6/22/2	2022 6/27/2022	0.3352 g	15 % wt
	Site: DAIRY 2 - EXTER	RIOR		
LBF-L-03	202205738-0003 6/22/2	2022 6/27/2022	0.1043 g	15 % wt
	Site: DAIRY 3 - BARN	DOOR		
LBF-L-04	202205738-0004 6/22/2	2022 6/27/2022	0.3084 g	29 % wt
	Site: DAIRY 2 - WIND	OW		
LBF-L-05	202205738-0005 6/22/2	2022 6/27/2022	0.2806 g	28 % wt
	Site: LOAFING BARN	CORRIDOR - DOOR FRAME		

Ch MM &

Owen Mckenna, Lead Laboratory Director or other approved signatory

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* Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request. Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 06/29/2022 17:24:07



Lead Chain of Custody

EMSL Order Number / Lab Use Only

Billing ID:

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

EMSL ANALYTICAL, INC. TESTING LABS · PRODUCTS · TRAINING

Customer ID: WESA77

2022.05738

PHONE: (800) 220-3675
 EMAIL: CinnaminsonLeadLab@emsl.com
 Country

Company Name: Weston & Sampson					Company Name:							
				e Billing Contact:								
Street Address: 712 Brook St. Ste 103					Street Address:							
City, State, Zip: Rocky Hill CT 06067 Country: LISA					- 5 Country:							
Phone: 860-085-2646		Phone:										
Email(s) for Report: to magazine Low		Email(s) for Invoice:										
lamaccio.iev	/is@wseinc	.com	rolast Infor		ation							
Project	1 -			ma	lation			Purchase				
Name/No: Lampson Far	n / 6	NO22-00	29	0.0			0	Order:				
(If applicable, EMSL will			sa	amp	state where ples collected	MA	State of C	Commercial (Taxa	able)	Residentia	al (Non-Taxable	
Sampled By Name: Lowic Tomoo	aia	Sampled By Signature:	-	_		1			No.	of Samples		
Lewis Tamac	clo hy			1 mm				in Shipment				
	24 Hour		AR Hour	ım		72 Hour		A Hour	11		2 Week	
	call ahead for large project	te and/or turneround times & Houre of	ar Less +32 Hou	ur T	TAT available for	select tests only: sa		e submitted by 11:30an		OOK	2 WOOK	
MATRIX	an arread for large project	METHOD	or Less. 32 Hou	ľ	INSTRUMEN	VT	RE	PORTING LIMIT	<u> </u>	SELEC	TION	
CHIPS % by wt. ppm (mg/kg) mg/cm	SIA	846-7000B	Flar	me	e Atomic Abs			008% (80000)	-		7	
		040-70000	r iai	ne	e Atomic Aba	solption	-	0.000 /0 (00ppm)				
0.25g sample weight	SW 846-6010D*			ICP-OES			0	0.0004% (4ppm)				
	N	IOSH 7082	Flan	Flame Atomic Absorption		sorption		4µg/filter		Г]	
AIR	N	IOSH 7105	G	ira	aphite Furnac	e AA		0.03µg/filter	ar 20			
	NIOSH 730	00M / NIOSH 7303M			ICP-OES			0.5µg/filter				
	NIOSH 730	00M / NIOSH 7303M			ICP-MS			0.05µg/filter			Sec. 80.	
	SW	/ 846-7000B	Flan	me	e Atomic Abs	sorption		10µg/wipe				
If no box is checked, non-ASTM Wipe is assumed	SW 846-6010D			ICP-OES				1.0µg/wipe			3	
TCLP	SW 846-131	Flar	me Atomic Absorption		(0.4 mg/L (ppm)]			
	SW 846-13		ICP-OES			(0.1 mg/L (ppm)					
SPLP	SW 846-131	Flame Atomic Absorption				0.4 mg/L (ppm)						
	22 CCR A	Flame Atomic Absorption				40ma/ka (ppm)						
TTLC	22 CCR Apr	ICP-OES				2mg/kg (ppm)						
STIC	22 CCR A	Flame Atomic Absorption			(0.4 mg/L (ppm)	Ľ					
3120	22 CCR App. II, SW 846-6010D*		ICP-OES			0.1 mg/L (ppm)						
Soil	SW 846-7000B		Flame Atomic Absorption		sorption	40mg/kg (ppm)						
Wastewater	SW 846-6010D* SM 3111B / SW 846-7000B		ICP-OES		2mg/kg (ppm) 0.4 mg/L (ppm)				-			
Unpreserved	SW 3111B / SW 646-7000B				Joiption	0.020 mg/l (ppm)				-		
Preserved with HNO3 PH<2	E	:PA 200.7	ICP-OES			0.020 mg/L (ppm)				_		
Drinking Water	E	PA 200.5	ICP-OES			0.	0.003 mg/L (ppm)					
Preserved with HNO3 PH<2	E	ICP-MS			0.	.001 mg/L (ppm)						
TSP/SPM Filter	40 (CFR Part 50		ICP-OES				12 µg/filter		C		
Other:	[][-	r			1		-		7	
										L		
Sample Number		Sample Location			Mester ; a) Volum			mo / Ar ea		Date / Time Sampled		
LBF-1-01	Dairy 2 - door fram		ame	e off. white			Paint 6.22.22			2		
136-1-02 Dair		in 2 · exterior		white Paint		-+		1				
13F-1-03 Dairy 3 - barn door			loor	white Paint								
LBF-L-04 Dairy 2 - winds.				large Paint								
IBF-L-DS Later Bar Conflor				D - Good White Parat						1	_	
Method of Shipment:	Conting	Vair Critico	Y - 100	00	Sample Cond	dition Upon Rec	eipt:	21101				
Relinguished by:		Date/Time:		+	Received by:				Date/Tinte	1-	2 (1)	
In Tann	- 6-22-22/1435		135	CEL EFX				6/23/22 1AM				
Relinquished by:		Date/Time:		Received by:			Date/Time					
Controlled Document - COC-25 Lead R15 4/5/2021			less P			25			-			
	AGREE	TO ELECTRONIC SIGNATU	RE (By check	king	ng, I consent to	o signing this Ch	nain of Cus	tody document by	electronic si	anature.)		

acceptance and acknowledgment of all terms and conditions by Customer. EMGL + X = 1011 - 200 - 5255Page 1 Of 1

Page 1 of 2