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August 4, 2025

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FROM Lydia Feng, MS, CIH
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RE **Wildfire Smoke Impact Post-Remediation Assessment – Webster Elementary School (FACS# PJ88022)**

Forensic Analytical Consulting Services, Inc. (FACS) was retained by Santa Monica-Malibu Unified School District (SMMUSD) to provide a wildfire smoke post-remediation assessment at Webster Elementary School, located at 3602 Winter Canyon Road in Malibu, California.

In December 2024, the Franklin fire occurred, reaching the edge of the Webster Elementary School campus and resulting in wildfire smoke impact to the school property. FACS performed an initial assessment on December 14, 2024, and provided a summary of initial assessment findings and recommendations for remediation in a report dated December 16, 2024. The district's retained remediation contractor, ATI Restoration, subsequently performed remediation in accordance with FACS recommendations. FACS performed a post-remediation assessment of accessible and representative interior areas on campus in late December 2024 and early January 2025; a report was issued by FACS on January 7, 2025, indicating that cleanup efforts for areas completed had adequately addressed smoke impact. Subsequently, the Eaton and Palisades fire occurred in January 2025, and strong winds around the time of the fires disturbed wildfire debris resulting in additional smoke impact to the school property. ATI Restoration performed cleaning using the same methods recommended by FACS.

In July 2025, SMMUSD requested that FACS perform an additional post-remediation assessment. The purpose of FACS' post-remediation assessment was to document current conditions at the school and confirm that remediation efforts were adequate to ensure a safe and healthy environment for students and staff.

Assessment Findings

During the post-remediation inspection, FACS performed a visual inspection, documented any sensory findings (e.g. smoke odor), and collected surface dust samples. Samples were collected from surfaces and analyzed by polarized light microscopy (PLM) to determine the percentage of the visual area of dust particulate that was composed of various particulate types (a technique known as visual area estimation - VAE), particularly combustion by-product (char, ash, soot). The following is a summary of findings:

July 16, 2025

Building A—Classrooms 17, 18, 19, 20

- No observable smoke odor was present.
- Interior surfaces (e.g. desks, floors, contents) appeared visibly clean. No visible signs of smoke impact (e.g., smoke-related particulate, staining) was observed.

- Results of surface dust sampling indicated levels of combustion particulates that were above background levels at a window surface.
- The HVAC air handling unit has been cleaned following the wildfires and filters have been changed several times according to maintenance personnel.

Building B—Classrooms 11, 12

- No observable smoke odor was present.
- Interior surfaces (e.g. desks, floors, contents) appeared visibly clean. No visible signs of smoke impact (e.g., smoke-related particulate, staining) was observed.
- Results of surface dust sampling indicated levels of combustion particulates that were above background levels at a window surface.
- The HVAC air handling unit has been cleaned following the wildfires and filters have been changed several times according to maintenance personnel.

Building C—Classrooms 13, 14, 15, 16, 16A, Boys/Girls Restrooms

- No observable smoke odor was present.
- Interior surfaces (e.g. desks, floors, contents) appeared visibly clean. No visible signs of smoke impact (e.g., smoke-related particulate, staining) was observed.
- Results of surface dust sampling indicated levels of combustion particulates that were above background levels at the exterior of the building.
- The HVAC air handling unit has been cleaned following the wildfires and filters have been changed several times according to maintenance personnel.

Building D—Admin Office, Health Office

- No observable smoke odor was present.
- Interior surfaces (e.g. desks, floors, contents) appeared visibly clean. No visible signs of smoke impact (e.g., smoke-related particulate, staining) was observed.
- The HVAC air handling unit has been cleaned following the wildfires and filters have been changed several times according to maintenance personnel.

Building E—Classroom 7, Library

- No observable smoke odor was present.
- Interior surfaces (e.g. desks, floors, contents) appeared visibly clean. No visible signs of smoke impact (e.g., smoke-related particulate, staining) was observed.
- Results of surface dust sampling indicated levels of combustion particulates that were above background levels at the door threshold sampled.
- The HVAC air handling unit has been cleaned following the wildfires and filters have been changed several times according to maintenance personnel.

Building F—Classrooms 8, 9, 10, Boys/Girls Restrooms

- No observable smoke odor was present.
- Interior surfaces (e.g. desks, floors, contents) appeared visibly clean. No visible signs of smoke impact (e.g., smoke-related particulate, staining) was observed.
- Results of surface dust sampling indicated typical background levels of combustion particulates at the HVAC register sampled.
- The HVAC air handling unit has been cleaned following the wildfires and filters have been changed several times according to maintenance personnel.

Building G—Cafeteria/Auditorium

- No observable smoke odor was present.
- Interior surfaces (e.g. desks, floors, contents) appeared visibly clean. No visible signs of smoke impact (e.g., smoke-related particulate, staining) was observed.
- Results of surface dust sampling indicated levels of combustion particulates that were above background levels at the door threshold sampled.
- The HVAC air handling unit has been cleaned following the wildfires and filters have been changed several times according to maintenance personnel.

Building H—Classrooms 1, 2, 3, 4, Boys/Girls Restrooms

- No observable smoke odor was present.
- Interior surfaces (e.g. desks, floors, contents) appeared visibly clean. No visible signs of smoke impact (e.g., smoke-related particulate, staining) was observed.
- Results of surface dust sampling indicated typical background levels of combustion particulates.
- The HVAC air handling unit has been cleaned following the wildfires and filters have been changed several times according to maintenance personnel.

Portables—Room 21, 22, 23

- No observable smoke odor was present.
- Interior surfaces (e.g. desks, floors, contents) appeared visibly clean. No visible signs of smoke impact (e.g., smoke-related particulate, staining) was observed.
- Results of surface dust sampling indicated typical background levels of combustion particulates at the HVAC surface (register) sampled.
- The HVAC air handling unit has been cleaned following the wildfires and filters have been changed several times according to maintenance personnel.

Sampling Summary

- Results of samples collected from HVAC surfaces were indicative of typical background levels of combustion particulates.
- Results of samples collected from interior surfaces adjacent to exterior entry points (e.g. window surfaces, door thresholds) indicated levels of combustion particulates that were above background levels. Samples were not collected from interior surfaces away from exterior entry points based on the absence of accumulations of particulates.
- Results of samples collected from exterior surfaces indicated levels of combustion particulates that were above background levels.

The data collected in the course of the investigation is presented in this report as follows:

- Attachment A: Campus map
- Attachment B: Photographs (depicting inspection observations)
- Attachment C: Laboratory report and chain of custody forms

Conclusions and Recommendations

Based on assessment findings collected during the post-remediation assessments, surfaces were visually clean of smoke related particulates and no smoke odors were observable. Sampling found smoke particulates above background levels at entry points (windows and door thresholds) and exterior surfaces. Additional and more frequent routine cleaning is recommended. Flooring and window surfaces

should be HEPA-vacuumed and/or wet-wiped with a detergent mix as appropriate. Refer to general recommendations for remediation in the initial FACS report dated December 16, 2024.

Site conditions identified and documented by FACS on the dates of the assessments may change due to environmental conditions such as wind, additional flare ups, or tracking in debris from other locations, which may result in impact not previously identified by FACS.

Additional surface sampling was performed by FACS for lead contamination and is summarized in the FACS report dated 8/4/25.

Limitations

This investigation is limited to the conditions and practices observed and information made available to FACS. The methods, conclusions and recommendations provided are based on FACS' judgment, expertise, and the standard of practice for professional service. They are subject to the limitations and variability inherent in the methodology employed. As with all environmental investigations, this investigation is limited to the defined scope and does not purport to set forth all hazards, nor indicate that other hazards do not exist.

Please do not hesitate to contact our offices at 310-668-5600 with any questions or concerns. Thank you for the opportunity to assist SMMUSD in promoting a more healthful environment.

Respectfully,

FORENSIC ANALYTICAL

Lydia Feng, MS, CIH
Senior Project Manager

Reviewed by:

FORENSIC ANALYTICAL

Michelle Rosales, MPH, CIH
Director of Environmental Health Services

ATTACHMENT A

Campus Map

ATTACHMENT B

Supporting Photographs

Photo #1: Building H – Classroom 2, HVAC register - Sample T01 -

Photo #2: Building E – Library, window sill – Sample T02

Photo #3: Building E – Classroom 7, door threshold – Sample T03

Photo #4: Building F – Classroom 10, HVAC register – Sample T04

Photo #5: Building G – Auditorium, door threshold – Sample T05

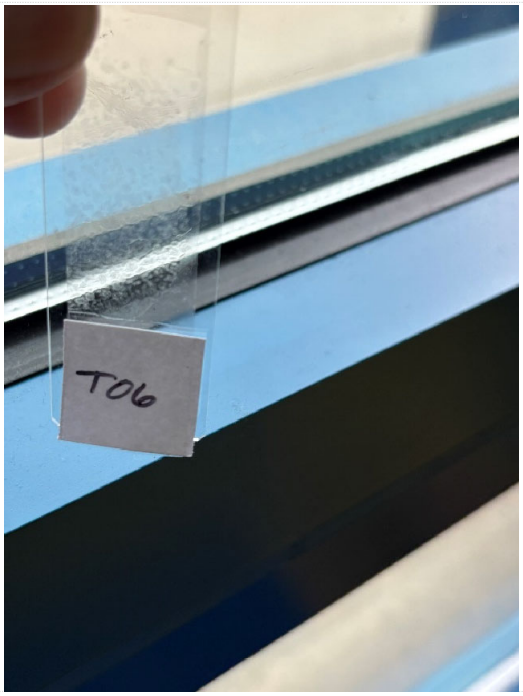

Photo #6: Building B – Classroom 11, window frame – Sample T06

Photo #7: Building C – Drinking fountain – Sample T07

Photo #8: Building C – Classroom 16A, window frame– Sample T08

Photo #9: Building A – Classroom 20, window trough – Sample T09

Photo #10: Bungalow Room 22, window sill – Sample T10

ATTACHMENT C

Laboratory Report and Chain of Custody Documentation

Forensic Analytical Laboratories, Inc. 25-3388 Analysis Request Form (COC)

Client Name & Address:
FACS
4900 Airport Plaza Dr, Suite 115
Long Beach, CA 90815

PO / Job#: PO14945 Job: PJ88022 Date: 07/16/2025

Turn Around Time: Same Day / 1Day / 2Day / 3Day / 4Day / 5Day

☐ PCM: ☐ NIOSH 7400A / ☐ NIOSH 7400B ☐ Rotometer

☐ PLM: ☐ Standard / ☐ Point Count 400 / 1000 / ☐ CARB 435

Contact: R. Schiffer

Phone: (310) 668-5600 Fax:

E-mail: WFSsupport-la@facs.com

☐ TEM Air: ☐ AHERA / ☐ Yamate2 / ☐ NIOSH 7402
☐ TEM Bulk: ☐ Quantitative / ☐ Qualitative / ☐ Chatfield
☐ TEM Water: ☐ Potable / ☐ Non-Potable / ☐ Weight %
☐ TEM Microvac: ☐ Qual(+/-) / ☐ D5755(str/area) / ☐ D5756(str/mass)

☐ IAQ Particle Identification (PLM LAB) ☒ PLM Opaques/Soot
☐ Particle Identification (TEM LAB) ☐ Special Project

Site: WEBSTER ES

Site Location: 3602 WINTER CANYON RD, MALIBU, CA 90265

☐ Metals Analysis: Method:
Matrix:
Analytes:

Comments: **Limited Particle ID - Wildfire Smoke Assessment**

Report Via: ☐ Fax ☒ E-Mail ☐ Verbal

	Sample ID	Date / Time	Sample Location / Description	FOR AIR SAMPLES ONLY Type	Time On/Off	Avg. LPM	Total Time	Sample Area / Air Volume
1	TO1	07/16/25	BLDG H, CLASSRM 2, HVAC REGISTER	A P C				
2	TO2		BLDG E, LIBRARY, NE WINDOW SILL	A P C				
3	TO3		BLDG E, CLASSRM 7, N DOOR, THRESHOLD	A P C				
4	TO4		BLDG F, CLASSRM 10, E HVAC REGISTER	A P C				
5	TO5		BLDG G, AUDITORIUM, E DOOR, THRESHOLD	A P C				
6	TO6		BLDG B, N WINDOW FRAME (2ND WINDOW E OF N DOOR)	A P C				
7	TO7		BLDG C, W END, DRINKING FOUNTAIN	A P C				
8	TO8		BLDG C, CLASSRM 16A, NE WINDOW FRAME	A P C				
9	TO9		BLDG A, CLASSRM 20, N WINDOW TROUGH	A P C				
10	TO10		BUNGALOW 22, E WINDOW SILL	A P C				

Sampled By: R. MCWHORTER Date: 07/16/2025 Time:

Shipped Via: ☒ Fed Ex ☐ DHL ☐ UPS ☐ US Mail ☐ Courier ☐ Drop Off ☐ Other:

Relinquished By: R. MCWHORTER	Relinquished By:	Relinquished By:
Date / Time: 07/16/25 ≈1230	Date / Time:	Date / Time:
Received By:	Received By:	Received By:
Date / Time: 7/17/25	Date / Time:	Date / Time:
Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No

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Los Angeles Office: 2959 Pacific Commerce Drive, Rancho Dominguez, California 90221 / Ph: (310)763-2374 * (888)813-9417 / Fax: (310)763-4450
Las Vegas Office: 6765 S. Eastern Avenue, Suite 3, Las Vegas, Nevada 89119 / Ph: (702)784-0040 / Fax: (702)784-0030

ENVIRONMENTAL ANALYSIS ASSOCIATES, INC.

306 5th Street, Suite 2A - Bay City, MI 48708

LABORATORY REPORT

Fire/Combustion Particle Analysis - Surface Dust

Report Prepared for : FACS

Client Project # : PJ88022 - PO14945
Project Description : Webster ES
EAA Project # : 25-3388

Samples Collected : 07/16/25
Samples Received : 07/17/25
Date of Analysis : 07/21/25

Authorized / Data Reviewed by : *Joseph R. Heintskill*

Joseph R. Heintskill
Laboratory Director

Fire/Combustion Particle Data Summary Table

Client : FACS
Client Project # : PJ88022 - PO14945
Client Project Description : Webster ES
EAA Project # : 25-3388

		Fire / Combustion Particle Concentration						Qualitative Observations		
		Estimated Area Ratio %					* Total Surface Density (Cts/mm^2)	Are large fire combustion particles detected ?	Are wildfire or structure fire indicator particles present?	Are there any potential interferences present?
Sample #	Sample Description	Total Area %	Soot	Char	Ash	Indicators				
T01	BLDG H, Class Rm 2, HVAC Register	not detected	not detected	not detected	not detected		not detected			
T02	BLDG E, Library, NE Windowsill	2.8	1.1	1.7	not detected		1.9			
T03	BLDG E, Class Rm 7, N Door, Threshold	18.7	not detected	8.8	6.5	3.4	74.3	Yes - Char & Ash	Yes	
T04	BLDG F, Classroom 10, E HVAC Register	2.9	0.2	1.6	1.1		2.8			
T05	BLDG G, Auditorium, E Door, Threshold	3.7	not detected	2.0	0.4	1.3	6.9		Yes	
T06	BLDG B, N Window Frame (2nd Window E of N Door)	4.6	not detected	3.7	not detected	0.9	6.2	Yes - Char (isolated)	Yes	
T07	BLDG C, W End, Drinking Fountain	3.6	not detected	2.9	not detected	0.7	8.3		Yes	
T08	BLDG C, Class Rm 16A, NE Window Frame	0.8	0.8	not detected	not detected		2.3			
T09	BLDG A, Class Rm 20, N Window Trough	6.0	0.2	3.9	1.3	0.6	8.3	Yes - Char (isolated)	Yes	
T10	Bungalow 22, E Windowsill	1.9	not detected	1.9	not detected		1.4			

The Estimated Area Ratio % is the estimated area (µm²) of the fire / combustion particles divided by all other particle categories analyzed in the sample.

The Surface density (Cts/mm²) of fire / combustion particles is the numerical surface particle concentration independent of the amount or ratio of background dust present.

** Note: If the surface particle density of fire residue particles (cts/mm²) is not displayed in the report, it was not reported due to significant sample overloading, or could not be performed on the collection media submitted for analysis. The surface density of fire combustion particles can only be calculated on tape lift samples that are not over-loaded with dust.*

The color-coded ranges provided in this summary table are to be used as a preliminary comparison with levels measured from your project. The detailed one-page reports should be used as the primary basis for interpreting the EAA data. The color-coded guideline ranges of Typical-Low, Typical, Atypical, or Elevated are based on historical background data collected on tape-lift samples from other buildings not suspected of a fire / combustion particle impact. Laboratory test results are secondary support information to be used in conjunction with information gathered during the visual site assessment. The local background, site specific building conditions, and other potential fire / combustion sources must be considered in order to render an independent opinion and conclusion as to whether or not the concentrations measured on your samples by the EAA laboratory represent a typical background, atypical, or elevated condition for your specific project.

Total Area Ratio % & Numerical Surface Concentrations		
Classification Range	Fire Particles Area Ratio %	Fire Particles Density cts/mm^2
Elevated > 10x background	> 10%	> 50
Atypical 3 -10x background	> 3-10%	> 5-50
Typical - upper background	≥ 1-3%	≥ 1-5
Typical - low	< 1%	< 1

FIRE/COMBUSTION RESIDUE & DUST ANALYSIS - Optical Microscopy Method: FIRE-D02

Client Name : FACS
Client Project # : PJ88022 - PO14945
Requested by : R. Schiffer
Project Description : Webster ES
Client Sample # : T01
Client Sample Description : BLDG H, Class Rm 2, HVAC Register
Sample Collected : 07/16/25
Sample Received : 07/17/25
Sample Media : Tape

EAA Project # : 25-3388
EAA Sample # : 3388-1
Analysis Magnification : 500x
Fields Counted : 15
Field Area (mm^2) : 0.145
Area Counted (mm^2) : 2.18

SUMMARY CONCLUSIONS : Fire/combustion residue not detected

QUALITATIVE / ASSEMBLAGE OBSERVATIONS -Reflected & Polarized Light Microscopy (10-500x)	
Sample description - color / texture :	Low visible dust detected
Smoke or fire odor present :	No
Large char (>500µm) / aciniform soot clusters (>50µm) present :	No
Large ash particles present :	No
Wildfire or structure fire indicator/signature particles present :	No

	FIRE / COMBUSTION RESIDUE CONSTITUENTS	Particle Concentration Cts/area (mm^2)	Estimated Area Ratio %
	Totals ►	**not detected**	**not detected**
	Aciniform soot	not detected	not detected
	Char (pyrolyzed vegetation)	not detected	not detected
	Ash	not detected	not detected
	INORGANIC CONSTITUENTS		
Fibrous Constituents :	Cellulosic / synthetic fabric fibers	0.9	23.1
	Fiberglass fibers	0.9	3.8
Non-fibrous Constituents :	Mixed inorganic mineral dust / soil	56.8	53.7
	Other opaque / paint / metal corrosion / rubber	6.0	12.5
	BIOAEROSOLS		
Mold Spores / Structures :	Unspecified	not detected	not detected
Pollen :	Unspecified	not detected	not detected
Plant Fragments :	Vegetation fragments, trichomes, etc.	not detected	not detected
Animal Fragments :	Dander / skin cells	1.8	6.9
Miscellaneous :	Unspecified	not detected	not detected
	ADDITIONAL CONSTITUENTS		
Other :	Unspecified	not detected	not detected

Particles Counted : 145
Detection Limit - (Area Ratio %) : 1.0%
Detection Limit - (Cts/area) mm^2 : 0.5

Background Dust Loading : Typical - low

Analysis Date : *07/21/25*

Authorized / Data Reviewed by : *Joseph R. Heintskill* *07/22/25*

Analyst Initials : *kab*

Background Dust Loading (Area%) : Typical-low <5%, Typical 5-20%, Atypical 20-40%, Elevated 40-80%, Overloaded >80%

The local geographic background and other site specific conditions and combustion sources must be taken into account in order to determine if an atypical or elevated condition is present. The estimated surface particle concentrations per unit surface area (Cts/mm^2) can only be calculated on tape lift samples. For a detailed explanation, see the EAA "Suggested Report Interpretation Guidelines" located on our website at eaalab.com.

Note: Sample results are only applicable to the items or locations tested.

FIRE/COMBUSTION RESIDUE & DUST ANALYSIS - Optical Microscopy Method: FIRE-D02

Client Name : FACS
Client Project # : PJ88022 - PO14945
Requested by : R. Schiffer
Project Description : Webster ES
Client Sample # : T02
Client Sample Description : BLDG E, Library, NE Windowsill
Sample Collected : 07/16/25
Sample Received : 07/17/25
Sample Media : Tape

EAA Project # : 25-3388
EAA Sample # : 3388-2
Analysis Magnification : 500x
Fields Counted : 15
Field Area (mm^2) : 0.145
Area Counted (mm^2) : 2.18

SUMMARY CONCLUSIONS : Fire/combustion residue measured in the typical / upper background range

QUALITATIVE / ASSEMBLAGE OBSERVATIONS -Reflected & Polarized Light Microscopy (10-500x)	
Sample description - color / texture :	Low visible dust detected
Smoke or fire odor present :	No
Large char (>500µm) / aciniform soot clusters (>50µm) present :	No
Large ash particles present :	No
Wildfire or structure fire indicator/signature particles present :	No

		Particle Concentration Cts/area (mm^2)	Estimated Area Ratio %
	FIRE / COMBUSTION RESIDUE CONSTITUENTS	**Totals ►** **1.9**	**2.8 %**
	Aciniform soot	1.4	1.1
	Char (pyrolyzed vegetation)	0.5	1.7
	Ash	not detected	not detected
	INORGANIC CONSTITUENTS		
Fibrous Constituents :	Cellulosic / synthetic fabric fibers	not detected	not detected
	Fiberglass fibers	0.5	7.4
Non-fibrous Constituents :	Mixed inorganic mineral dust / soil	11.0	26.5
	Other opaque / paint / metal corrosion / rubber	5.0	32.4
	BIOAEROSOLS		
Mold Spores / Structures :	Unspecified	not detected	not detected
Pollen :	Unspecified	not detected	not detected
Plant Fragments :	Vegetation fragments, trichomes, etc.	not detected	not detected
Animal Fragments :	Dander / skin cells	0.9	13.3
Miscellaneous :	Insect parts (legs, spiderwebs, etc.)	1.4	17.7
	ADDITIONAL CONSTITUENTS		
Other :	Unspecified	not detected	not detected

Particles Counted : 45
Detection Limit - (Area Ratio %) : 1.0%
Detection Limit - (Cts/area) mm^2 : 0.5

Background Dust Loading : Typical - low

Analysis Date : *07/21/25*

Authorized / Data Reviewed by : *Joseph R. Heintskill* *07/22/25*

Analyst Initials : *kab*

Background Dust Loading (Area%) : Typical-low <5%, Typical 5-20%, Atypical 20-40%, Elevated 40-80%, Overloaded >80%

The local geographic background and other site specific conditions and combustion sources must be taken into account in order to determine if an atypical or elevated condition is present. The estimated surface particle concentrations per unit surface area (Cts/mm^2) can only be calculated on tape lift samples. For a detailed explanation, see the EAA "Suggested Report Interpretation Guidelines" located on our website at eaalab.com.

Note: Sample results are only applicable to the items or locations tested.

FIRE/COMBUSTION RESIDUE & DUST ANALYSIS - Optical Microscopy Method: FIRE-D02

Client Name : FACS
Client Project # : PJ88022 - PO14945
Requested by : R. Schiffer
Project Description : Webster ES
Client Sample # : T03
Client Sample Description : BLDG E, Class Rm 7, N Door, Threshold
Sample Collected : 07/16/25
Sample Received : 07/17/25
Sample Media : Tape

EAA Project # : 25-3388
EAA Sample # : 3388-3
Analysis Magnification : 500x
Fields Counted : 5
Field Area (mm^2) : 0.145
Area Counted (mm^2) : 0.73

SUMMARY CONCLUSIONS : Fire/combustion residue concentration measured above typical background concentrations
Qualitative observations confirm the presence of indicator fire/combustion particles

QUALITATIVE / ASSEMBLAGE OBSERVATIONS -Reflected & Polarized Light Microscopy (10-500x)

Sample description - color / texture :	Brown / black powdery & fibrous dust	
Smoke or fire odor present :	No	
Large char (>500µm) / aciniform soot clusters (>50µm) present :	Yes - Char	
Large ash particles present :	Yes	
Wildfire or structure fire indicator/signature particles present :	Yes	Vegetation/wildfire indicators

	FIRE / COMBUSTION RESIDUE CONSTITUENTS	Particle Concentration Cts/area (mm^2)	Estimated Area Ratio %
	Totals ►	**74.3**	**18.7 %**
	Aciniform soot	not detected	not detected
	Char (pyrolyzed vegetation)	23.4	8.8
	Ash	26.1	6.5
Vegetation/wildfire indicators	Burned clay, mineral grains, phytoliths	24.8	3.4
	INORGANIC CONSTITUENTS		
Fibrous Constituents :	Cellulosic / synthetic fabric fibers	11.0	18.3
	Fiberglass fibers	not detected	not detected
Non-fibrous Constituents :	Mixed inorganic mineral dust / soil	390.6	29.3
	Other opaque / paint / metal corrosion / rubber	144.4	20.0
	BIOAEROSOLS		
Mold Spores / Structures :	Unspecified	6.9	0.2
Pollen :	Unspecified	2.8	0.5
Plant Fragments :	Vegetation fragments, trichomes, etc.	not detected	not detected
Animal Fragments :	Dander / skin cells	not detected	not detected
Miscellaneous :	Algal spores	116.9	13.0
	ADDITIONAL CONSTITUENTS		
Other :	Unspecified	not detected	not detected

Particles Counted : 543
Detection Limit - (Area Ratio %) : 0.2%
Detection Limit - (Cts/area) mm^2 : 1.4

Background Dust Loading : Atypical

Analysis Date : *07/21/25*

Authorized / Data Reviewed by : *Joseph R. Heintskill* *07/22/25*

Analyst Initials : *kab*

Background Dust Loading (Area%) : Typical-low <5%, Typical 5-20%, Atypical 20-40%, Elevated 40-80%, Overloaded >80%

The local geographic background and other site specific conditions and combustion sources must be taken into account in order to determine if an atypical or elevated condition is present. The estimated surface particle concentrations per unit surface area (Cts/mm^2) can only be calculated on tape lift samples. For a detailed explanation, see the EAA "Suggested Report Interpretation Guidelines" located on our website at eaalab.com.

Note: Sample results are only applicable to the items or locations tested.

FIRE/COMBUSTION RESIDUE & DUST ANALYSIS - Optical Microscopy Method: FIRE-D02

Client Name : FACS
Client Project # : PJ88022 - PO14945
Requested by : R. Schiffer
Project Description : Webster ES
Client Sample # : T04
Client Sample Description : BLDG F, Classroom 10, E HVAC Register
Sample Collected : 07/16/25
Sample Received : 07/17/25
Sample Media : Tape

EAA Project # : 25-3388
EAA Sample # : 3388-4
Analysis Magnification : 500x
Fields Counted : 10
Field Area (mm^2) : 0.145
Area Counted (mm^2) : 1.45

SUMMARY CONCLUSIONS : Fire/combustion residue measured in the typical / upper background range

QUALITATIVE / ASSEMBLAGE OBSERVATIONS -Reflected & Polarized Light Microscopy (10-500x)	
Sample description - color / texture :	Gray powdery & fibrous dust
Smoke or fire odor present :	No
Large char (>500µm) / aciniform soot clusters (>50µm) present :	No
Large ash particles present :	No
Wildfire or structure fire indicator/signature particles present :	No

		Particle Concentration Cts/area (mm^2)	Estimated Area Ratio %
FIRE / COMBUSTION RESIDUE CONSTITUENTS	**Totals ►**	**2.8**	**2.9 %**
	Aciniform soot	0.7	0.2
	Char (pyrolyzed vegetation)	1.4	1.6
	Ash	0.7	1.1
	INORGANIC CONSTITUENTS		
Fibrous Constituents :	Cellulosic / synthetic fabric fibers	0.7	7.9
	Fiberglass fibers	not detected	not detected
Non-fibrous Constituents :	Mixed inorganic mineral dust / soil	72.9	31.5
	Other opaque / paint / metal corrosion / rubber	38.5	29.6
	BIOAEROSOLS		
Mold Spores / Structures :	Unspecified	11.0	2.1
Pollen :	Unspecified	not detected	not detected
Plant Fragments :	Vegetation fragments, trichomes, etc.	not detected	not detected
Animal Fragments :	Dander / skin cells	15.1	26.1
Miscellaneous :	Unspecified	not detected	not detected
	ADDITIONAL CONSTITUENTS		
Other :	Unspecified	not detected	not detected

Particles Counted : 205
Detection Limit - (Area Ratio %) : 0.2%
Detection Limit - (Cts/area) mm^2 : 0.7

Background Dust Loading : Typical

Analysis Date : *07/21/25*

Authorized / Data Reviewed by : *Joseph R. Heintskill* *07/22/25*

Analyst Initials : *kab*

Background Dust Loading (Area%) : Typical-low <5%, Typical 5-20%, Atypical 20-40%, Elevated 40-80%, Overloaded >80%

The local geographic background and other site specific conditions and combustion sources must be taken into account in order to determine if an atypical or elevated condition is present. The estimated surface particle concentrations per unit surface area (Cts/mm^2) can only be calculated on tape lift samples. For a detailed explanation, see the EAA "Suggested Report Interpretation Guidelines" located on our website at eaalab.com.

Note: Sample results are only applicable to the items or locations tested.

FIRE/COMBUSTION RESIDUE & DUST ANALYSIS - Optical Microscopy

Method: FIRE-D02

Client Name :	FACS		
Client Project # :	PJ88022 - PO14945	EAA Project # :	25-3388
Requested by :	R. Schiffer	EAA Sample # :	3388-5
Project Description :	Webster ES		
Client Sample # :	T05		
Client Sample Description :	BLDG G, Auditorium, E Door, Threshold		
Sample Collected :	07/16/25	Analysis Magnification :	500x
Sample Received :	07/17/25	Fields Counted :	10
Sample Media :	Tape	Field Area (mm^2) :	0.145
		Area Counted (mm^2) :	1.45

SUMMARY CONCLUSIONS : Fire/combustion residue concentration measured above typical background concentrations
Qualitative observations confirm the presence of indicator fire/combustion particles

QUALITATIVE / ASSEMBLAGE OBSERVATIONS -Reflected & Polarized Light Microscopy (10-500x)

Sample description - color / texture :	Gray powdery & fibrous dust	
Smoke or fire odor present :	No	
Large char (>500µm) / aciniform soot clusters (>50µm) present :	No	
Large ash particles present :	No	
Wildfire or structure fire indicator/signature particles present :	Yes	Vegetation/wildfire indicators

	FIRE / COMBUSTION RESIDUE CONSTITUENTS	Particle Concentration Cts/area (mm^2)	Estimated Area Ratio %
	Totals ►	**6.9**	**3.7 %**
	Aciniform soot	not detected	not detected
	Char (pyrolyzed vegetation)	2.1	2.0
	Ash	0.7	0.4
Vegetation/wildfire indicators	Burned clay, mineral grains	4.1	1.3
	INORGANIC CONSTITUENTS		
Fibrous Constituents :	Cellulosic / synthetic fabric & wood fibers	8.3	39.4
	Fiberglass fibers	not detected	not detected
Non-fibrous Constituents :	Mixed inorganic mineral dust / soil	157.5	33.9
	Other opaque / paint / metal corrosion / rubber	51.6	20.5
	BIOAEROSOLS		
Mold Spores / Structures :	Unspecified	not detected	not detected
Pollen :	Unspecified	not detected	not detected
Plant Fragments :	Vegetation fragments, trichomes, etc.	not detected	not detected
Animal Fragments :	Dander / skin cells	3.4	2.5
Miscellaneous :	Unspecified	not detected	not detected
	ADDITIONAL CONSTITUENTS		
Other :	Unspecified	not detected	not detected

Particles Counted :	331	Background Dust Loading :	Typical
Detection Limit - (Area Ratio %) :	0.4%		
Detection Limit - (Cts/area) mm^2 :	0.7		
		Analysis Date :	*07/21/25*
Authorized / Data Reviewed by :	*Joseph R. Heintskill* *07/22/25*	Analyst Initials :	*kab*

Background Dust Loading (Area%) : Typical-low <5%, Typical 5-20%, Atypical 20-40%, Elevated 40-80%, Overloaded >80%

The local geographic background and other site specific conditions and combustion sources must be taken into account in order to determine if an atypical or elevated condition is present. The estimated surface particle concentrations per unit surface area (Cts/mm^2) can only be calculated on tape lift samples. For a detailed explanation, see the EAA "Suggested Report Interpretation Guidelines" located on our website at eaalab.com.

Note: Sample results are only applicable to the items or locations tested.

FIRE/COMBUSTION RESIDUE & DUST ANALYSIS - Optical Microscopy Method: FIRE-D02

Client Name : FACS
Client Project # : PJ88022 - PO14945
Requested by : R. Schiffer
Project Description : Webster ES
Client Sample # : T06
Client Sample Description : BLDG B, N Window Frame (2nd Window E of N Door)
Sample Collected : 07/16/25
Sample Received : 07/17/25
Sample Media : Tape

EAA Project # : 25-3388
EAA Sample # : 3388-6
Analysis Magnification : 500x
Fields Counted : 10
Field Area (mm^2) : 0.145
Area Counted (mm^2) : 1.45

SUMMARY CONCLUSIONS : Fire/combustion residue concentration measured above typical background concentrations
Qualitative observations confirm the presence of indicator fire/combustion particles

QUALITATIVE / ASSEMBLAGE OBSERVATIONS -Reflected & Polarized Light Microscopy (10-500x)

Sample description - color / texture :	Gray powdery & fibrous dust
Smoke or fire odor present :	No
Large char (>500µm) / aciniform soot clusters (>50µm) present :	Yes - Char (isolated)
Large ash particles present :	No
Wildfire or structure fire indicator/signature particles present :	Yes Vegetation/wildfire indicators

	FIRE / COMBUSTION RESIDUE CONSTITUENTS	Particle Concentration Cts/area (mm^2)	Estimated Area Ratio %
	Totals ►	**6.2**	**4.6 %**
	Aciniform soot	not detected	not detected
	Char (pyrolyzed vegetation)	4.1	3.7
	Ash	not detected	not detected
Vegetation/wildfire indicators	Burned phytoliths	2.1	0.9
	INORGANIC CONSTITUENTS		
Fibrous Constituents :	Cellulosic / synthetic fabric fibers	11.0	49.3
	Fiberglass fibers	not detected	not detected
Non-fibrous Constituents :	Mixed inorganic mineral dust / soil	92.1	15.5
	Other opaque / paint / metal corrosion / rubber	27.5	10.3
	BIOAEROSOLS		
Mold Spores / Structures :	Unspecified	5.5	0.4
Pollen :	Unspecified	2.1	0.9
Plant Fragments :	Vegetation fragments, trichomes, etc.	not detected	not detected
Animal Fragments :	Dander / skin cells	28.2	19.0
Miscellaneous :	Unspecified	not detected	not detected
	ADDITIONAL CONSTITUENTS		
Other :	Unspecified	not detected	not detected

Particles Counted : 251
Detection Limit - (Area Ratio %) : 0.4%
Detection Limit - (Cts/area) mm^2 : 0.7

Background Dust Loading : Typical

Analysis Date : *07/21/25*

Authorized / Data Reviewed by : *Joseph R. Heintskill* *07/22/25*

Analyst Initials : *kab*

Background Dust Loading (Area%) : Typical-low <5%, Typical 5-20%, Atypical 20-40%, Elevated 40-80%, Overloaded >80%

The local geographic background and other site specific conditions and combustion sources must be taken into account in order to determine if an atypical or elevated condition is present. The estimated surface particle concentrations per unit surface area (Cts/mm^2) can only be calculated on tape lift samples. For a detailed explanation, see the EAA "Suggested Report Interpretation Guidelines" located on our website at eaalab.com.

Note: Sample results are only applicable to the items or locations tested.

FIRE/COMBUSTION RESIDUE & DUST ANALYSIS - Optical Microscopy Method: FIRE-D02

Client Name : FACS
Client Project # : PJ88022 - PO14945
Requested by : R. Schiffer
Project Description : Webster ES
Client Sample # : T07
Client Sample Description : BLDG C, W End, Drinking Fountain
Sample Collected : 07/16/25
Sample Received : 07/17/25
Sample Media : Tape

EAA Project # : 25-3388
EAA Sample # : 3388-7
Analysis Magnification : 500x
Fields Counted : 5
Field Area (mm^2) : 0.145
Area Counted (mm^2) : 0.73

SUMMARY CONCLUSIONS : Fire/combustion residue concentration measured above typical background concentrations
Qualitative observations confirm the presence of indicator fire/combustion particles

QUALITATIVE / ASSEMBLAGE OBSERVATIONS -Reflected & Polarized Light Microscopy (10-500x)		
Sample description - color / texture :	Gray powdery & fibrous dust	
Smoke or fire odor present :	No	
Large char (>500µm) / aciniform soot clusters (>50µm) present :	No	
Large ash particles present :	No	
Wildfire or structure fire indicator/signature particles present :	Yes	Vegetation/wildfire indicators

	FIRE / COMBUSTION RESIDUE CONSTITUENTS	Particle Concentration Cts/area (mm^2)	Estimated Area Ratio %
	Totals ►	**8.3**	**3.6 %**
	Aciniform soot	not detected	not detected
	Char (pyrolyzed vegetation)	5.5	2.9
	Ash	not detected	not detected
Vegetation/wildfire indicators	Burned clay, mineral grains	2.8	0.7
	INORGANIC CONSTITUENTS		
Fibrous Constituents :	Cellulosic / synthetic fabric fibers	2.8	7.2
	Fiberglass fibers	not detected	not detected
Non-fibrous Constituents :	Mixed inorganic mineral dust / soil	541.9	53.0
	Other opaque / paint / metal corrosion / rubber	55.0	12.0
	BIOAEROSOLS		
Mold Spores / Structures :	Unspecified	66.0	2.9
Pollen :	Unspecified	13.8	3.6
Plant Fragments :	Vegetation fragments, trichomes, etc.	2.8	1.2
Animal Fragments :	Dander / skin cells	42.6	16.7
Miscellaneous :	Unspecified	not detected	not detected
	ADDITIONAL CONSTITUENTS		
Other :	Unspecified	not detected	not detected

Particles Counted : 533
Detection Limit - (Area Ratio %) : 0.7%
Detection Limit - (Cts/area) mm^2 : 1.4

Background Dust Loading : Atypical

Analysis Date : *07/21/25*

Authorized / Data Reviewed by : *Joseph R. Heintskill* *07/22/25*

Analyst Initials : *kab*

Background Dust Loading (Area%) : Typical-low <5%, Typical 5-20%, Atypical 20-40%, Elevated 40-80%, Overloaded >80%

The local geographic background and other site specific conditions and combustion sources must be taken into account in order to determine if an atypical or elevated condition is present. The estimated surface particle concentrations per unit surface area (Cts/mm^2) can only be calculated on tape lift samples. For a detailed explanation, see the EAA "Suggested Report Interpretation Guidelines" located on our website at eaalab.com.

Note: Sample results are only applicable to the items or locations tested.

FIRE/COMBUSTION RESIDUE & DUST ANALYSIS - Optical Microscopy Method: FIRE-D02

Client Name : FACS
Client Project # : PJ88022 - PO14945
Requested by : R. Schiffer
Project Description : Webster ES
Client Sample # : T08
Client Sample Description : BLDG C, Class Rm 16A, NE Window Frame
Sample Collected : 07/16/25
Sample Received : 07/17/25
Sample Media : Tape

EAA Project # : 25-3388
EAA Sample # : 3388-8
Analysis Magnification : 500x
Fields Counted : 15
Field Area (mm^2) : 0.145
Area Counted (mm^2) : 2.18

SUMMARY CONCLUSIONS : Low fire/combustion residue present (isolated particles detected)

QUALITATIVE / ASSEMBLAGE OBSERVATIONS -Reflected & Polarized Light Microscopy (10-500x)

Sample description - color / texture :	Low visible dust detected
Smoke or fire odor present :	No
Large char (>500µm) / aciniform soot clusters (>50µm) present :	No
Large ash particles present :	No
Wildfire or structure fire indicator/signature particles present :	No

		Particle Concentration Cts/area (mm^2)	Estimated Area Ratio %
	FIRE / COMBUSTION RESIDUE CONSTITUENTS	**Totals ►** **2.3**	**0.8 %**
	Aciniform soot	2.3	0.8
	Char (pyrolyzed vegetation)	not detected	not detected
	Ash	not detected	not detected
	INORGANIC CONSTITUENTS		
Fibrous Constituents :	Cellulosic / synthetic fabric fibers	0.9	36.6
	Fiberglass fibers	not detected	not detected
Non-fibrous Constituents :	Mixed inorganic mineral dust / soil	24.8	37.0
	Other opaque / paint / metal corrosion / rubber	4.1	13.7
	BIOAEROSOLS		
Mold Spores / Structures :	Unspecified	1.4	0.9
Pollen :	Unspecified	not detected	not detected
Plant Fragments :	Vegetation fragments, trichomes, etc.	not detected	not detected
Animal Fragments :	Dander / skin cells	1.8	11.0
Miscellaneous :	Unspecified	not detected	not detected
	ADDITIONAL CONSTITUENTS		
Other :	Unspecified	not detected	not detected

Particles Counted : 77
Detection Limit - (Area Ratio %) : 0.8%
Detection Limit - (Cts/area) mm^2 : 0.5

Background Dust Loading : Typical - low

Analysis Date : *07/21/25*

Authorized / Data Reviewed by : *Joseph R. Heintskill* *07/22/25*

Analyst Initials : *kab*

Background Dust Loading (Area%) : Typical-low <5%, Typical 5-20%, Atypical 20-40%, Elevated 40-80%, Overloaded >80%

The local geographic background and other site specific conditions and combustion sources must be taken into account in order to determine if an atypical or elevated condition is present. The estimated surface particle concentrations per unit surface area (Cts/mm^2) can only be calculated on tape lift samples. For a detailed explanation, see the EAA "Suggested Report Interpretation Guidelines" located on our website at eaalab.com.

Note: Sample results are only applicable to the items or locations tested.

FIRE/COMBUSTION RESIDUE & DUST ANALYSIS - Optical Microscopy Method: FIRE-D02

Client Name : FACS
Client Project # : PJ88022 - PO14945
Requested by : R. Schiffer
Project Description : Webster ES
Client Sample # : T09
Client Sample Description : BLDG A, Class Rm 20, N Window Trough
Sample Collected : 07/16/25
Sample Received : 07/17/25
Sample Media : Tape

EAA Project # : 25-3388
EAA Sample # : 3388-9
Analysis Magnification : 500x
Fields Counted : 10
Field Area (mm^2) : 0.145
Area Counted (mm^2) : 1.45

SUMMARY CONCLUSIONS : Fire/combustion residue concentration measured above typical background concentrations
Qualitative observations confirm the presence of indicator fire/combustion particles

QUALITATIVE / ASSEMBLAGE OBSERVATIONS -Reflected & Polarized Light Microscopy (10-500x)

Sample description - color / texture :	Gray powdery & fibrous dust	
Smoke or fire odor present :	No	
Large char (>500µm) / aciniform soot clusters (>50µm) present :	Yes - Char (isolated)	
Large ash particles present :	No	
Wildfire or structure fire indicator/signature particles present :	Yes	Vegetation/wildfire indicators

	FIRE / COMBUSTION RESIDUE CONSTITUENTS	Particle Concentration Cts/area (mm^2)	Estimated Area Ratio %
	Totals ►	**8.3**	**6.0 %**
	Aciniform soot	2.8	0.2
	Char (pyrolyzed vegetation)	3.4	3.9
	Ash	1.4	1.3
Vegetation/wildfire indicators	Burned phytoliths	0.7	0.6
	INORGANIC CONSTITUENTS		
Fibrous Constituents :	Cellulosic / synthetic fabric fibers	1.4	12.5
	Fiberglass fibers	not detected	not detected
Non-fibrous Constituents :	Mixed inorganic mineral dust / soil	58.5	26.7
	Other opaque / paint / metal corrosion / rubber	21.3	16.2
	BIOAEROSOLS		
Mold Spores / Structures :	Unspecified	6.2	0.9
Pollen :	Unspecified	1.4	1.3
Plant Fragments :	Vegetation fragments, trichomes, etc.	not detected	not detected
Animal Fragments :	Dander / skin cells	1.4	1.9
Miscellaneous :	Insect parts (legs, spiderwebs, etc.)	22.7	34.5
	ADDITIONAL CONSTITUENTS		
Other :	Unspecified	not detected	not detected

Particles Counted : 176
Detection Limit - (Area Ratio %) : 0.2%
Detection Limit - (Cts/area) mm^2 : 0.7

Background Dust Loading : Typical

Analysis Date : *07/21/25*

Authorized / Data Reviewed by : *Joseph R. Heintskill* *07/22/25*

Analyst Initials : *kab*

Background Dust Loading (Area%) : Typical-low <5%, Typical 5-20%, Atypical 20-40%, Elevated 40-80%, Overloaded >80%

The local geographic background and other site specific conditions and combustion sources must be taken into account in order to determine if an atypical or elevated condition is present. The estimated surface particle concentrations per unit surface area (Cts/mm^2) can only be calculated on tape lift samples. For a detailed explanation, see the EAA "Suggested Report Interpretation Guidelines" located on our website at eaalab.com.

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FIRE/COMBUSTION RESIDUE & DUST ANALYSIS - Optical Microscopy Method: FIRE-D02

(end of data report)

Client Name :	FACS		
Client Project # :	PJ88022 - PO14945	EAA Project # :	25-3388
Requested by :	R. Schiffer	EAA Sample # :	3388-10
Project Description :	Webster ES		
Client Sample # :	T10		
Client Sample Description :	Bungalow 22, E Windowsill		
Sample Collected :	07/16/25	Analysis Magnification :	500x
Sample Received :	07/17/25	Fields Counted :	10
Sample Media :	Tape	Field Area (mm^2) :	0.145
		Area Counted (mm^2) :	1.45

SUMMARY CONCLUSIONS : Fire/combustion residue measured in the typical / upper background range

QUALITATIVE / ASSEMBLAGE OBSERVATIONS -Reflected & Polarized Light Microscopy (10-500x)

Sample description - color / texture :	Gray powdery & fibrous dust
Smoke or fire odor present :	No
Large char (>500µm) / aciniform soot clusters (>50µm) present :	No
Large ash particles present :	No
Wildfire or structure fire indicator/signature particles present :	No

		Particle Concentration Cts/area (mm^2)	Estimated Area Ratio %
FIRE / COMBUSTION RESIDUE CONSTITUENTS	**Totals ►**	**1.4**	**1.9 %**
	Aciniform soot	not detected	not detected
	Char (pyrolyzed vegetation)	1.4	1.9
	Ash	not detected	not detected
	INORGANIC CONSTITUENTS		
Fibrous Constituents :	Cellulosic / synthetic fabric fibers	8.9	62.6
	Fiberglass fibers	not detected	not detected
Non-fibrous Constituents :	Mixed inorganic mineral dust / soil	61.2	16.1
	Other opaque / paint / metal corrosion / rubber	21.3	12.4
	BIOAEROSOLS		
Mold Spores / Structures :	Unspecified	1.4	0.2
Pollen :	Unspecified	not detected	not detected
Plant Fragments :	Vegetation fragments, trichomes, etc.	2.1	2.4
Animal Fragments :	Dander / skin cells	4.1	4.3
Miscellaneous :	Unspecified	not detected	not detected
	ADDITIONAL CONSTITUENTS		
Other :	Unspecified	not detected	not detected

Particles Counted :	146	Background Dust Loading :	Typical
Detection Limit - (Area Ratio %) :	0.2%		
Detection Limit - (Cts/area) mm^2 :	0.7		

Analysis Date : *07/21/25*

Authorized / Data Reviewed by : *Joseph R. Heintskill* *07/22/25* Analyst Initials : *kab*

Background Dust Loading (Area%) : Typical-low <5%, Typical 5-20%, Atypical 20-40%, Elevated 40-80%, Overloaded >80%

The local geographic background and other site specific conditions and combustion sources must be taken into account in order to determine if an atypical or elevated condition is present. The estimated surface particle concentrations per unit surface area (Cts/mm^2) can only be calculated on tape lift samples. For a detailed explanation, see the EAA "Suggested Report Interpretation Guidelines" located on our website at eaalab.com.

Note: Sample results are only applicable to the items or locations tested.