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Combustion By-Product (CBP) Laboratory Report

Customer: Pasadena Unified School District
 351 South Hudson Avenue
 Pasadena, CA 91109

Job Location: Madison Elementary School
 515 East Ashtabula Street
 Pasadena, CA 91104

Lab ID	1525010269	1525010270	1525010271	1525010272	1525010273	1525010274	1525010275	1525010276	1525010277	1525010278
Sample #	1	2	3	4	5	6	7	8	9	10
Sample Type	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift
Soot (Black Carbon)	<1%	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Char (Carbonized Material)	N.D.	N.D.	N.D.	N.D.	<1%	N.D.	N.D.	N.D.	N.D.	N.D.
Ash (Carbonized Material)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
pH	7.08	7.20	7.42	7.79	7.68	7.88	7.61	8.06	7.93	7.97
Location	Room 102 - Top of Desk	Room 104 - Top of Counter	Room 106 - Top of Bookshelf	Room 107 (Teacher's Lounge) Top of Table	Room 109 (Library) - Top of Bookshelf	Room 109 (Library) - Top of Chair	Room 112 - Top of Table	Building A - Men's Restroom - Floor	Cafeteria - Food Line Collector	Cafeteria - Kitchen Serving Cart

Notes										
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Components:

Fibrous Material	X	X	X	X	X	X	X	X	X	X
Fungal Material										
Material Consistent With Carbon Black										
Paint										
Plant Material					X			X		
Rubber										
Rust/Metal Flakes										
Other										

Sampled: 01/18/2025 Received: 01/19/2025 Analyzed: 01/20/2025 Report: 01/20/2025

Analysts: Arturo Valdez Russell Chhith Admin QC: CN Lab QC: MF

Samples were analyzed in accordance with ASTM D6602-13: Standard Practice for Sampling & Testing of Possible Carbon Black Fugitive Emissions or Other Environmental Particulate, or Both (modified). Limit of Detection (LOD) is 1.0% and Limit of Quantification (LOQ) is 1.0%. Combustion By-Product (CBP) percentage obtained through calibrated visual estimation (CVE). Char and ash are visually estimated by polarized light microscopy, material transmitted light, and reflected light microscopy analysis, whereas soot is confirmed and visually estimated by TEM (Transmission Electron Microscopy) analysis. The TEM is equipped with an EDS (energy dispersive x-ray spectroscope) for soot elemental composition. *(Soot is presumptive for samples which consist of Tape-lifts only.) The pH is measured to two decimal places via a calibrated pH meter. All samples are disposed of after 30 days unless the customer requests otherwise. Test results apply to the sample as received. Results are not blank corrected. This report shall not be reproduced except in full, without the written approval of the laboratory. This report must not be used by the client to claim product certification, approval, or endorsement by AIHA or any agency of the U.S. Government.



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Customer: Pasadena Unified School District
 351 South Hudson Avenue
 Pasadena, CA 91109

Job Location: Madison Elementary School
 515 East Ashtabula Street
 Pasadena, CA 91104

Lab ID	1525010279	1525010280	1525010281	1525010282	1525010283	1525010284	1525010285	1525010286	1525010287	1525010288
Sample #	11	12	13	14	15	16	17	18	19	20
Sample Type	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift
Soot (Black Carbon)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Char (Carbonized Material)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Ash (Carbonized Material)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
pH	7.70	7.23	7.21	7.74	7.73	7.55	7.61	7.42	7.47	7.64
Location	Cafeteria - Top of Dining Table	Room 128 - Floor at Door	Room 129 - Top of Table	Room A126 - Top of File Cabinet	Room 120 (Office) - Desk Keyboard Pad	Principal's Office - Top of Counter	Room 110 - Table Near Window	Room A107 - Top of Bookshelf	Room 204 - Projector Cart	Room A207 - West Window Sill

Notes										
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Components:

Fibrous Material	X	X	X	X	X	X	X	X	X	X
Fungal Material										
Material Consistent With Carbon Black										
Paint										
Plant Material	X									
Rubber										
Rust/Metal Flakes	X	X	X	X		X				
Other									X	

Samples were analyzed in accordance with ASTM D6602-13: Standard Practice for Sampling & Testing of Possible Carbon Black Fugitive Emissions or Other Environmental Particulate, or Both (modified). Limit of Detection (LOD) is 1.0% and Limit of Quantification (LOQ) is 1.0%. Combustion By-Product (CBP) percentage obtained through calibrated visual estimation (CVE). Char and ash are visually estimated by polarized light microscopy, material transmitted light, and reflected light microscopy analysis, whereas soot is confirmed and visually estimated by TEM (Transmission Electron Microscopy) analysis. The TEM is equipped with an EDS (energy dispersive x-ray spectroscope) for soot elemental composition. *(Soot is presumptive for samples which consist of Tape-lifts only.) The pH is measured to two decimal places via a calibrated pH meter. All samples are disposed of after 30 days unless the customer requests otherwise. Test results apply to the sample as received. Results are not blank corrected. This report shall not be reproduced except in full, without the written approval of the laboratory. This report must not be used by the client to claim product certification, approval, or endorsement by AIHA or any agency of the U.S. Government.



Combustion By-Product (CBP) Laboratory Report

Customer: Pasadena Unified School District
351 South Hudson Avenue
Pasadena, CA 91109

Job Location: Madison Elementary School
515 East Ashtabula Street
Pasadena, CA 91104

Lab ID	1525010289	1525010290	1525010291	1525010292	1525010293	1525010294
Sample #	21	22	23	24	25	26
Sample Type	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Wipe, Tape-lift	Micro-vac, Tape-lift
Soot (Black Carbon)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Char (Carbonized Material)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Ash (Carbonized Material)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
pH	7.62	7.44	7.52	7.72	7.80	7.93

Location	Room 210 - Teacher's Desk	Room A215 - Bookshelf	Room A216 - Top of Leather Chair	Room A219 - Top of Table	Auditorium - Stage Floor	Auditorium - Carpet at South Exit
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Notes										
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Components:

Fibrous Material	X	X	X	X	X	X				
Fungal Material										
Material Consistent With Carbon Black										
Paint										
Plant Material										
Rubber										
Rust/Metal Flakes		X				X				
Other										

Samples were analyzed in accordance with ASTM D6602-13: Standard Practice for Sampling & Testing of Possible Carbon Black Fugitive Emissions or Other Environmental Particulate, or Both (modified). Limit of Detection (LOD) is 1.0% and Limit of Quantification (LOQ) is 1.0%. Combustion By-Product (CBP) percentage obtained through calibrated visual estimation (CVE). Char and ash are visually estimated by polarized light microscopy, material transmitted light, and reflected light microscopy analysis, whereas soot is confirmed and visually estimated by TEM (Transmission Electron Microscopy) analysis. The TEM is equipped with an EDS (energy dispersive x-ray spectroscope) for soot elemental composition. *(Soot is presumptive for samples which consist of Tape-lifts only.) The pH is measured to two decimal places via a calibrated pH meter. All samples are disposed of after 30 days unless the customer requests otherwise. Test results apply to the sample as received. Results are not blank corrected. This report shall not be reproduced except in full, without the written approval of the laboratory. This report must not be used by the client to claim product certification, approval, or endorsement by AIHA or any agency of the U.S. Government.