



**ENVIRO
CHECK**

2211 West Orangewood Avenue
Orange, CA 92868
Tel: (714) 937-0750
Fax: (714) 937-0755
www.envirocheck.com
(800) 665-7586



Combustion By-Product (CBP) Laboratory Report

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

Job Location: John Muir High School
McLarens File # 002.062481.00.S
1905 Lincoln Avenue
Pasadena, CA 91103

Lab ID	1525011419	1525011420	1525011421	1525011422	1525011423	1525011424	1525011425	1525011426	1525011427	1525011428
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)	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	7.04	7.93	7.57	7.75	7.78	7.86	7.93	7.57	7.78	7.76
Location	Building A 152 - Window Sill	Building A 109 - Desk	Building A 148 - Shelf	Building A 146 - Window Sil	Building A 142 - Window Sill	Building A 136 - Teacher's Desk	Building A 132 - Student's Desk	Building A 126 - Window Sill	Building A 122 - Student's Desk	Building A 125 - 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					x					
Plant Material		x								x
Rubber										
Rust/Metal Flakes										
Other	x	x	x	x	x	x	x	x	x	x

Sampled: 01/28/2025 Received: 01/29/2025 Analyzed: 01/29/2025 Report: 01/30/2025

Analysts: *Arturo Valdez* *Erasmio Lopez* *Matthew Fonda* Admin QC: KK
-Arturo Valdez Erasmio Lopez Matthew Fonda Lab QC: RCC

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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 McLarens File # 002.062481.00.S
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Lab ID	1525011429	1525011430	1525011431	1525011432	1525011433	1525011434	1525011435	1525011436	1525011437	1525011438
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	7.67	7.88	7.10	6.96	6.80	7.24	7.26	7.32	7.34	7.31

Location	Building A 116 - Teacher's Desk	Building A 110A - Window Sill	Building A 108 - Desk	Building A Corridor by A106 Locker 106	Building A 151 - Teacher's Desk	Building A 157 - Window Sill	Building A 159 - Sink Counter (Center)	Building A 184 - Shelf	Building A 180 - Student's Desk	Building A 176 - Desk by Window
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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				x						
Plant Material										x
Rubber										
Rust/Metal Flakes				x						
Other	x	x	x	x	x	x	x	x	x	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.



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 Attention: 351 South Hudson Avenue
 Pasadena, CA 91109

Job Location: John Muir High School
 McLarens File # 002.062481.00.S
 1905 Lincoln Avenue
 Pasadena, CA 91103

Lab ID	1525011439	1525011440	1525011441	1525011442	1525011443	1525011444	1525011445	1525011446	1525011447	1525011448
Sample #	21	22	23	24	25	26	27	28	29	30
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	7.37	7.53	7.56	7.61	7.15	6.85	6.96	6.81	6.86	7.54

Location	Building A 172 - Teacher's Desk	Building A 168 - Microwave	Building A 160 - Desk (7)	Building A 156 - Window Sill	Building A Corridor by Locker 850	Building K 601 - Teacher's Desk	Building K 605 - Countertop by Window	Building K 613 - Fume Hood	Building K 655 - Bookshelf by Door	Building K BB209 - Window Sill
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Notes										
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Components:

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



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 Attention: 351 South Hudson Avenue
 Pasadena, CA 91109

Job Location: John Muir High School
 McLarens File # 002.062481.00.S
 1905 Lincoln Avenue
 Pasadena, CA 91103

Lab ID	1525011449	1525011450	1525011451	1525011452	1525011453	1525011454	1525011455	1525011456	1525011457	1525011458
Sample #	31	32	33	34	35	36	37	38	39	40
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	7.18	7.17	6.70	7.41	6.52	6.95	6.65	6.84	6.78	7.17
Location	Building G4 - G226 - Manager Desk	Building G3 - G223 - Cure Star 4000	Building G5 - G222 - Refrigerator	Building P - Locker Room Shelf	Building D 119 - Sink Counter Top	Building D 114 - Professor's Desk	Building D 110 - Window Sill	Building D 104 - Table Top	Building D 105 - Top of Keyboard	Building D 109 - Professor's Desk

Notes										
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Components:

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



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 Attention: 351 South Hudson Avenue
 Pasadena, CA 91109

Job Location: John Muir High School
 McLarens File # 002.062481.00.S
 1905 Lincoln Avenue
 Pasadena, CA 91103

Lab ID	1525011459	1525011460	1525011461	1525011462	1525011463	1525011464	1525011465	1525011466	1525011467	1525011468
Sample #	41	42	43	44	45	46	47	48	49	50
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	7.04	6.78	6.58	6.98	7.14	7.40	6.85	7.28	6.97	7.16

Location	Building D 113 - Cubicle Desk	Building D 117 - Window Sill	Building D 214 - Window Sill	Building D 210 - Top of Student's Desk	Building D 206 - Window Sill	Building D 202 - Centralized Student's Desk	Building D 207 - Professor's Desk	Building D 211 - Student's Desk	Building D 217 - Window Sill	Building E 502 - Conference Table
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Notes										
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Components:

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



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 Pasadena, CA 91109

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 1905 Lincoln Avenue
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Lab ID	1525011469	1525011470	1525011471	1525011472	1525011473	1525011474	1525011475	1525011476	1525011477	1525011478
Sample #	51	52	53	54	55	56	57	58	59	60
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.	<1%	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	7.02	6.76	6.94	7.06	7.16	7.08	6.83	6.75	7.08	7.45
Location	Building E 505 - Office Desk	Building E 514 - Shelving	Building E 521 - Sink Countertop	Building E 518 - Shelving	Building E Digital Media - Computer Desk	Building E Television Studio - Door Handle	Building J 104 - Shelving by Window	Building J 100 - Countertop	Building J 110 - Window Sill	Building F 204 - Serving Countertop

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	x	x	x	x	x	x	x	x	x	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.



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 1905 Lincoln Avenue
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Lab ID	1525011479	1525011480	1525011481	1525011482	1525011483	1525011484	1525011485	1525011486	1525011487	1525011488
Sample #	61	62	63	64	65	66	67	68	69	70
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	7.18	7.29	7.20	7.02	7.16	7.60	7.07	6.89	6.90	7.07
Location	Building F 201 - Student Store Shelf	Building T Gym - South Bleachers Seat	Building T Girl's Locker Room - Top of Locker	Building T 106 - Inside Locker 23	Building S - Team Room Bench	Building S Lockers - Top of Locker	Building S S101A / T355 - Window Sill	Building W - Gym Floor (Center)	Building W - Classroom 109 Shoe Box	Building W - Teacher's Lounge Countertop

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										
Rubber					x					
Rust/Metal Flakes										
Other	x	x	x	x	x	x	x	x	x	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.



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Job Location: John Muir High School
 McLarens File # 002.062481.00.S
 1905 Lincoln Avenue
 Pasadena, CA 91103

Lab ID	1525011489	1525011490	1525011491	1525011492	1525011493	1525011494	1525011495	1525011496	1525011497	1525011498
Sample #	71	72	73	74	75	76	77	78	79	80
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.	<1%	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	7.86	6.89	7.23	7.16	6.90	7.24	7.22	7.30	6.93	7.19
Location	Building M 104 - Table	Building G1 - Tool Box	Building G2 - Computer Desk (G225)	Building G6 - Paper Dispenser (G220)	Building B Auditorium - Stage Pedestal	Building B Auditorium - Seat M-2	Building B Auditorium - Projection Countertop	Building B Cafeteria - Top of Trash Bin	Building B - Servery Countertop	Building B Kitchen - Preparation Countertop

Notes										
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Components:

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