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Combustion By-Product / Testing / Analysis

Jobsite:

**CALIFORNIA STATE UNIVERSITY LOS ANGELES (CSULA)
BING ARNOLD CHILDREN'S CENTER
5151 STATE UNIVERSITY DR.
LOS ANGELES, CA 90032**

Prepared For:

MS. BARBARA L. QUEEN
CALIFORNIA STATE UNIVERSITY LOS ANGELES (CSULA)
5151 STATE UNIVERSITY DR.
LOS ANGELES, CA 90032

January 16, 2025

PROJECT №. **E225-004**

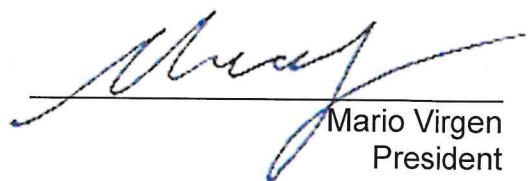

Mario Virgen
President

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-



Barbara L. Queen
Planning, Design & Construction
California State University, Los Angeles (CSULA)
5151 University Dr.
Los Angeles, CA 90032

Re: Combustion By-Product Testing
California State University, Los Angeles (CSULA)
Bing Arnold Children's Center
5151 University Dr.
Los Angeles, CA 90032

GETC Project No. E225-004

Dear Ms. Queen,

Global Environmental Training & Consulting (GETC) performed Ambient Air Testing for Combustion By-Product (Char, Soot, & Ash) at the above referenced property. GETC has reviewed the results from the accredited laboratory and based on the samples taken on January 13, 2025, throughout Bing Arnold Children's Center, results have concluded that all areas identified are below the outside background sample for Combustion By-Products.

Thank you for choosing GETC as the consultant for this project. If you have any questions, or if we can be of service again in the future, please do not hesitate to contact our office at (626) 962-4436.

Respectfully submitted,

Global Environmental Training & Consulting, Inc.
Mario Virgen, I.H.
President

Enclosures

1.0 EXECUTIVE SUMMARY

1.1 GENERAL INFORMATION

Global Environmental Training and Consulting, Inc. (GETC) was retained by the California State University, Los Angeles (CSULA) to conduct Ambient Air Quality Testing for Combustion By-Products at Bing Arnold Children's Center located at 5151 University Dr., in Los Angeles, California.

Carbon Black is a fine-grained solid residue that results from incomplete combustion of hydrocarbons. This testing is designed for analysis of fire residues for presence of analytes of interest (Char, Black Carbon/Soot, & Ash). The results of this test offer the client valuable information related to the extent of contamination produced by a fire from a residence or wildfire. These results can be used for cleaning assessment.

The sample collection was performed by GETC Industrial Hygienist Mr. Chris Virgen.

1.2 TASKS

GETC Performed Ambient Air Quality Testing for Combustion By-Product that included the following tasks:

- ◆ Collect Air Samples using Allergenco Cassettes within Bing Arnold Children's Center (9 Total) – For Combustion By-Product Analysis.
 - ◆ Air Samples were collected following the ASTM D6602-13 Standards, "Standard Practices for sampling and testing of possible Carbon Black Fugitive Emissions or Environmental Particulates."
-

SAMPLING TABLE COMBUSTION BY-PRODUCT (CHAR, SOOT, & ASH)

BING ARNOLD CHILDREN'S CENTER					
SAMPLE NO.	LOCATION	CHAR PARTICULATES	SOOT PARTICULATES	ASH	TOTAL
01	OUTSIDE (CONTROL)	52,853	293	120	53,266
02	MULBERRY ROOM	5,540	100	140	5,780
03	MAGNOLIA ROOM	2,260	120	113	2,493
04	MAPLE ROOM	3,280	87	87	3,454
05	EUCALYPTUS ROOM	11,560	27	113	11,700
06	BAMBOO ROOM	1,393	20	52	1,466
07	BONSAI ROOM	3,420	13	47	3,480
08	BONSAI ROOM	2,227	13	33	2,273
09	BREAKROOM	773	13	53	839

2.0 METHODOLOGY

This section includes the description of the methodologies used to perform the Combustion By-Product Sampling and Analysis. These methodologies include air sampling analysis.

2.1 AIR SAMPLING

- Collect and submit for analysis samples for Combustion By-Product from within Bing Arnold Children's Center.

2.2 SAMPLING PROCEDURES AND ANALYSIS

Sampling Procedure

The inspector collected Nine (9) air samples from Bing Arnold Children's Center. Methods & Equipment:

- ♦ Polarized Light Microscopy (PLM)
- ♦ epi-Reflected Light Microscopy (RLM)

The samples were numbered and shipped to a laboratory accredited under the American Industrial Hygiene Association (AIHA) and Environmental Proficiency Analytical Testing Program (EPAT).

Chain-of-Custody Procedures

Chain-of-Custody documents possession of the samples from the time they are collected until they have been analyzed and are stored. Custody documentation must be followed whenever materials are received, collected, transferred, stored, analyzed, or destroyed.

The original Chain-of-Custody is to accompany the materials at all times. Custody documentation will begin at the time a sample is collected. Each transferor should retain a copy of the Chain-of-Custody record.

Laboratory Quality Control Program

Pasteur Laboratory maintains an in-house quality control program. This program involves precision and accuracy controls, use of standard bulk reference materials, maintenance of national and state accreditation, participation in external and internal proficiency testing programs, and confirmation of analyst experience and qualification in compliance with specific internal training and competency requirements.

2.3 REPORT FORMAT

This report has been organized in a manner that presents the data in several forms to best suit the needs of the property. The "Executive Summary" provides a description of the facility and analytical results for each area tested. The Air Sampling Log, Appendix A, contains detailed information on the locations of areas sampled. The "Analytical Reports", Appendix B, is a listing of samples taken and their Combustion By-Product Content.

3.0 FINDINGS AND RECOMMENDATIONS

3.1 GENERAL SUMMARY

- ◆ Sampling Logs & COC in Appendix A.
- ◆ Complete lab analyses for Combustion By-Products are given in Appendix B.
- ◆ Sampling Scheme is given in Appendix C.

3.2 RECOMMENDATIONS

Since all indoor air samples are below the Outside (Control) sample, Global Environmental Training & Consulting, Inc. (GETC) has no recommendations at this time.

4.0 WARRANTY

The field and laboratory results reported herein are considered sufficient in detail and scope to determine the presence of airborne Combustion By-Product Compounds in Bing Arnold Children's Center. Global Environmental Training & Consulting, Inc. warrants that the findings contained herein have been prepared in general accordance with accepted professional practices at the time of its preparation as applied by similar professionals in the community. Changes in the state of the art or in applicable regulations cannot be anticipated and have not been addressed in the report.

The air sampling and analytical methods have been used to provide the client with information regarding the presence of Combustion By-Product Compounds existing in the Bing Arnold Children's Center at the time of sampling. Test results are valid only for the areas tested. There is a distinct possibility that conditions may exist which could not be identified within the scope of the study of which were not apparent during the site visit.

No other warranties are implied or expressed.

APPENDIX A

AIR SAMPLING LOG

158 N. Glendora Ave., Suite S (2nd floor)
Glendora, CA 91741
Tel: (626) 963-8686
E-mail: microbiology99@aol.com

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APPENDIX B

ANALYTICAL REPORTS

1/14/2025



158 N. Glendora Ave., Suite S

Glendora, CA 91741

Tel: (626) 963-8686

E-mail: microbiology99@aol.com

Lab Reference No.:	00028-25-0044
Date Collected:	January 13, 2024
Date Received:	January 13, 2024
Date Analyzed:	January 13, 2024

Sample(s) analyzed: 9

*Background debris is an indication of amounts of biological and non-biological particulate matters present on the sample and is characterized as *very light, light, moderate, heavy* or *very heavy*. *Very heavy* background debris may obscure particulate matters, reducing visibility during analysis. Consequently, counts from very heavy background debris should be considered minimal. *The laboratory and its personnel shall not be held liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretation of information supplied by us. This report relates only to samples submitted and analyzed*

Sample(s) were analyzed by: P. Chakravarty, Ph.D., Sr. Environmental Microbiologist

P. Chakravarty

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1/14/2025



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Global Environmental Training & Consulting

1520 W. Cameron Ave., Suite 103, West Covina, CA 91790

Tel: 626-962-4436 Fax: 626-962-4437

E-mail: staff@globalenvirotraining.com

Client's Project: CSULA- Bing Arnold Children's Center E225-004

Lab Reference No.: 00028-25-0044

Date Collected: January 13, 2024

Date Received: January 13, 2024

Date Analyzed: January 13, 2024

Sample(s) analyzed: 9

*Background debris is an indication of amounts of biological and non-biological particulate matters present on the sample and is characterized as *very light, light, moderate, heavy* or *very heavy*. *Very heavy* background debris may obscure particulate matters, reducing visibility during analysis. Consequently, counts from *very heavy* background debris should be considered minimal. *The laboratory and its personnel shall not be held liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretation of information supplied by us. This report relates only to samples* *SP Chakravarty*

1/14/2025



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Mario Virgen/Miguel Virgen Global Environmental Training & Consulting 1520 W. Cameron Ave., Suite 103, West Covina, CA 91790 Tel: 626-962-4436 Fax: 626-962-4437 E-mail: staff@globalenvirotraining.com Client's Project: CSULA- Bing Arnold Children's Center E225-004				Lab Reference No.: 00028-25-0044 Date Collected: January 13, 2024 Date Received: January 13, 2024 Date Analyzed: January 13, 2024 Sample(s) analyzed: 9											
Laboratory Sample ID	12403														
Client Sample ID	09														
Location	Break Rm														
Volume (L)	150														
Background Debris*	Moderate														
Sample Description	AllergencoD														
	Raw cts	No. /m ³	%												
Char particulate:	116	773	92.13												
Soot particulate	2	13	1.55												
Ash:	8	53	6.32												
Total numbers / m ³	839														
Comments															
Limit of Detection	7			< #VALUE!				< #VALUE!				< #VALUE!			

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APPENDIX C

SAMPLING SCHEME

