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Combustion By-Product / Testing / Analysis

Jobsite:

CALIFORNIA STATE UNIVERSITY LOS ANGELES (CSULA) STUDENT HOUSING EAST 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 14, 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)
Student Housing East
5151 University Dr.
Los Angeles, CA 90032

GETC Project №. 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 12, 2025, throughout Student Housing East, 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,

Muce

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 Student Housing East 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. Mario 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 Student Housing East (69 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)

	STU	DENT HOUSING EA	\ST		
SAMPLE NO.	LOCATION	CHAR PARTICULATES	SOOT PARTICULATES	ASH	TOTAL
01	1 ST FLOOR – DINING AREA	47	0	13	60
02	1 ST FLOOR – KITCHEN	53	7	27	87
03	1 ST FLOOR – COMMUNITY KITCHEN	73	0	20	93
04	1 ST FLOOR – CORRIDOR	1,520	27	87	1,634
05	1 ST FLOOR – HOUSING ADMIN ROOM 2310	1,320	7	27	1,354
06	1 ST FLOOR – GYM	33	0	7	40
07	1 ST FLOOR – LEARNING CENTER	27	0	0	27
08	1 ST FLOOR – LOBBY	87	7	13	107
09	2 ND FLOOR – TOWER 1 – STUDY LOUNGE A	40	0	0	40
10	2 ND FLOOR – TOWER 1 – FLOOR LOUNGE	520	13	20	553
11	2 ND FLOOR – TOWER 1 – STUDY LOUNGE B	373	7	7	387
12	3 RD FLOOR – TOWER 1 – STUDY LOUNGE A	207	0 ,	13	220
13	3 RD FLOOR – TOWER 1 – FLOOR LOUNGE	1,487	7	13	1,507
14	3 RD FLOOR – TOWER 1 – STUDY LOUNGE B	713	7	27	747
15	4 TH FLOOR – TOWER 1 – STUDY LOUNGE A	360	13	47	420
16	4 TH FLOOR – TOWER 1 – FLOOR LOUNGE	87	7	13	107
17	4 TH FLOOR – TOWER 1 – STUDY LOUNGE B	73	13	7	93
18	5 TH FLOOR – TOWER 1 – STUDY LOUNGE A	100	7	20	127
19	5 TH FLOOR – TOWER 1 – FLOOR LOUNGE	33	0	0	33
20	5 TH FLOOR – TOWER 1 – STUDY LOUNGE B	60	0	7	67
21	6 TH FLOOR – TOWER 1 – STUDY LOUNGE A	87	7	20	114
22	6 TH FLOOR – TOWER 1 – FLOOR LOUNGE	27	0	0	27
23	6 TH FLOOR – TOWER 1 – STUDY LOUNGE B	27	0	7	34

CONTINUED...

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SAMPLE NO.	LOCATION	CHAR PARTICULATES	SOOT PARTICULATES	ASH	TOTAL
24	7 TH FLOOR – TOWER 1 – STUDY LOUNGE A	27	7	7	41
25	7 TH FLOOR – TOWER 1 – FLOOR LOUNGE	20	0	0	20
26	7 TH FLOOR – TOWER 1 –	47	0	7	54
27	STUDY LOUNGE B 8 TH FLOOR – TOWER 1 –	47	0	7	
28	STUDY LOUNGE A 8 TH FLOOR – TOWER 1 –				64
·	FLOOR LOUNGE 8 TH FLOOR – TOWER 1 –	33	7	13	53
29	STUDY LOUNGE B 7 TH FLOOR – TOWER 2 –	40	0	13	33
30	STUDY LOUNGE A	33	0	0	33
31	7 TH FLOOR – TOWER 2 – FLOOR LOUNGE	13	0	0	13
32	7 TH FLOOR – TOWER 2 – STUDY LOUNGE B	33	0	7	40
33	6 TH FLOOR – TOWER 2 – STUDY LOUNGE A	47	0	13	60
34	6 TH FLOOR – TOWER 2 – FLOOR LOUNGE	27	0	7	34
35	6 TH FLOOR – TOWER 2 – STUDY LOUNGE B	47	7	20	74
36	5 TH FLOOR – TOWER 2 – STUDY LOUNGE A	20	0	0	20
37	5 TH FLOOR – TOWER 2 –	60	7	13	80
38	FLOOR LOUNGE 5 TH FLOOR – TOWER 2 –	40	0		
39	STUDY LOUNGE B 4 TH FLOOR – TOWER 2 –		-	0	40
	STUDY LOUNGE A 4 TH FLOOR – TOWER 2 –	73	/	7	87
40	FLOOR LOUNGE 4 TH FLOOR – TOWER 2 –	27	0	0	27
41	STUDY LOUNGE B	20	0	0	20
42	3 RD FLOOR – TOWER 2 – STUDY LOUNGE A	273	13	7	293
43	3 RD FLOOR – TOWER 2 – FLOOR LOUNGE	353	7	47	407
44	3 RD FLOOR – TOWER 2 – STUDY LOUNGE B	80	20	27	127
45	2 ND FLOOR – TOWER 2 – STUDY LOUNGE A	40	0	0	40
46	2 ND FLOOR – TOWER 2 –	60	0	7	67
47	FLOOR LOUNGE 2 ND FLOOR – TOWER 2 –	47	0	0	47
	STUDY LOUNGE B		O	U	4/

CONTINUED...

	STU	DENT HOUSING EA	AST		
SAMPLE NO.	LOCATION	CHAR PARTICULATES	SOOT PARTICULATES	ASH	TOTAL
48	2 ND FLOOR – TOWER 3 – STUDY LOUNGE A	540	13	47	600
49	2 ND FLOOR – TOWER 3 – FLOOR LOUNGE	53	0	13	66
50	2 ND FLOOR – TOWER 3 – STUDY LOUNGE B	60	0	7	67
51	3 RD FLOOR – TOWER 3 – STUDY LOUNGE A	293	13	27	333
52	3 RD FLOOR – TOWER 3 – FLOOR LOUNGE	60	0	0	60
53	3 RD FLOOR – TOWER 3 – STUDY LOUNGE B	207	7	20	234
54	3 RD FLOOR – TOWER 3 – STUDY LOUNGE A	80	0	7	87
55	3 RD FLOOR – TOWER 3 – FLOOR LOUNGE	47	0	0	47
56	3 RD FLOOR – TOWER 3 – STUDY LOUNGE B	420	13	27	460
57	5 TH FLOOR – TOWER 3 – STUDY LOUNGE A	707	27	53	787
58	5 TH FLOOR – TOWER 3 – FLOOR LOUNGE	80	0	7	87
59	5 TH FLOOR – TOWER 3 – STUDY LOUNGE B	273	13	7	293
60	6 TH FLOOR – TOWER 3 – STUDY LOUNGE A	247	13	33	293
61	6 TH FLOOR – TOWER 3 – FLOOR LOUNGE	80	13	40	133
62	6 TH FLOOR – TOWER 3 – STUDY LOUNGE B	173	20	20	213
63	7 TH FLOOR – TOWER 3 – STUDY LOUNGE A	727	33	53	813
64	7 TH FLOOR – TOWER 3 – FLOOR LOUNGE	73	0	27	100
·65	7 TH FLOOR – TOWER 3 – STUDY LOUNGE B	93	7	7	107
66	8 TH FLOOR – TOWER 3 – STUDY LOUNGE A	53	0	20	73
67	8 TH FLOOR – TOWER 3 – FLOOR LOUNGE	87	0	40	127
68	8 TH FLOOR – TOWER 3 – STUDY LOUNGE B	580	20	73	673
69	OUTSIDE (CONTROL)	13,220	507	753	14,480

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 Student Housing East.

2.2 SAMPLING PROCEDURES AND ANALYSIS

Sampling Procedure

The inspector collected Sixty-Nine (69) air samples from Student Housing East. 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 Student Housing East. 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 Student Housing East 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

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1 1 - 1 2 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1	4	Fasteur Laboratory	138 N. Glendora Ave., Suite S (2nd floor)	Clendora, CA 91741 Tel: (626) 063 0606	F-mail: microhiological	Landin Hillian Dichology 99 @ aol. com		CONTACT INF	ing & Consulting	gen / Miguel Virgen	Phone: 626-962-4436	PROJECT INFORMATION	ULA - Student Housing East		Sampling Date: January 12, 2025			TIPHEN JAKON	The state of	2	1500	- lower 32 Jaly (Last Cash	1501 (3	5 - Josy 7		1	Locar Director	1000	Hoor Tool & Mal	Chest Cour	de 100	BILDa (Control)					S - Swab BL - Blilk	()

APPENDIX B ANALYTICAL REPORTS

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

1/13/2025

Global Environmental Training & Consulting

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

E-mail: staff@globalenvirotraining.com

Mario Virgen/Miguel Virgen



Pasteur Laboratory

158 N. Glendora Ave., Suite S Glendora, CA 91741 Tel: (626) 963-8686

E-mail: microbiology99@aol.com

Lab Reference No.:

00028-25-0040

Date Collected:

January 12, 2025

Date Received:

January 13, 2025

Date Analyzed:

January 13, 2025

Client's Project: CSULA - S	tudent F	lousing	East E2	25-004		Samp	le(s) an	alyzed:	69					
Laboratory Sample ID		12274	- 200 Day - 0	I	12275			12276	4 10		12277			
Client Sample ID		01			02			03		-	04			
Location	1st	FI Dining	j area	1	st FI kitc	hen	1st	FI Comm kitchen	unity	1:	st FI Corri	dor		
Volume (L)		150			150			150			150			
Background Debris*		Light			Light			Light			Light			
Sample Description		Allergenc		1	Allergenc		A	llergenco	D	AllergencoD				
		No./m	%	Raw ct	No./m	%	Raw cts	No. /m°	%	Raw ct	No. /m ³	%		
Char particulate:	7	47	78.33	8	53	60.92	11	73	78.49	228	1520	93.02		
						-								
	-		 	-					4					
Soot particulate	0	0	0.00	1	7	8.05	0	0	0.00	4	27	1.65		
Ash:	2	13	21.67	4	27	31.03	3	20	21.51	13	87	5.32		
				_										
Total numbers / m³		60			87			93		1,634				
Comments Limit of Detection		7			7									
Background debris is an indicat	ion of s	7	hialaa'	-II	7			7		7				

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Lab Reference No.:

00028-25-0040

Date Collected:

January 12, 2025

Date Received:

January 13, 2025

Date Analyzed:

January 13, 2025

Client's Project: CSULA - S	tudent F	om Iousing I	East E2	25-004		Samp	le(s) an	alyzed:	69						
Laboratory Sample ID	T	12278			12279	THE RESERVE	1	12280		Г	12281				
Client Sample ID		05			06		 	07		-	08				
Location	1st F	Housing Rm 2310			1st FI Gy	/m	1st FI	Learning	Center	1	Ist FI Lob	oby			
Volume (L)		150			150			150			150				
Background Debris*		Light			Light			Light		Light					
Sample Description	F	Allergence			Mergeno		A	llergence	oD	AllergencoD					
	Raw ct	No./m	%	Raw ct	No./m	%	Raw cts	No./m	%	Raw ct	No. /m°	%			
Char particulate:	198	1,320	97.49	5	33	82.50	4	27	100.00	13	87	81.31			
	-					-									
									-						
		- t-													
Soot norticulate															
Soot particulate	1	7	0.52	0	0	0.00	0	0	0.00	1	7	6.54			
										· ·					
Ash:	4	27	1.99	1	7	17.50	0	0	0.00	2	13	12.15			
									у						
					_										
Total numbers / m³		1,354			40			27			107				
Comments		.,00-7			70					107					
Limit of Detection		7		7				7		7					
*Background debris is an indicat	ion of am	ounts of	biologica	al and no		ical parti	iculate m		esent on						

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E-mail: microbiology99@aol.com

Lab Reference No.:

January 12, 2025

Date Collected: Date Received:

January 13, 2025

Date Analyzed:

January 13, 2025

00028-25-0040

Sample(s) analyzed: 69

	11				THE R. P. LEWIS CO., LANSING		10(5) an	aryzeu.	00			
Laboratory Sample ID		12282			12283			12284			12285	
Client Sample ID		09			10			11			12	
Location	2nd FI		1 - Study	2nd I	I Tower			Tower 1		3rd FI	- Tower 1	l - Study
Volume (L)	╢	Lounge	Α	₩	Lounge		 	Lounge E	3		Lounge .	
	╢——	150			150			150			150	
Background Debris*	 ,	Light		<u> </u>	Light			Light			Light	
Sample Description		Allergend No./m			Allergenc			Allergenco		,	Allergence	
Char particulate:			-		No./m	%	Raw cts				No. /m	%
Char particulate:	6	40	100.00	78	520	94.03	56	373	96.38	31	207	94.09
				-								
				-								
					9							
Soot particulate	0	0	0.00	2	13	2.35	1	7	1.81	0	0	0.00
							-					0.00
										_		-
									-			-
										_		-
										_		\vdash
					-						-	
		-								_		
Ash:	0	0	0.00	3	20	3.62	1	7	4.04	0	- 40	
	-		0.00	3	20	3.02	1		1.81	2	13	5.91
							-01		П			
							1					
Total numbers / m³		40			553			387			220	
Comments												
Limit of Detection		7			7			7			7	
*Background debris is an indicati	on of am	ounts of	hiologica	al and no	n-hiolog	ical parti	culate m	attors pro	ocent on	the com	nla and i	

1/13/2025



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Mario Virgen/Miguel Virgen

Lab Reference No.:

Global Environmental Training & Consulting

Date Collected:

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Client's Project: CSULA - Student Housing East E225-004

Lab Reference No.: 00028-25-0040
Date Collected: January 12, 2025
Date Received: January 13, 2025
Date Analyzed: January 13, 2025

Sample(s) analyzed: 69

1 -1		10000			e	-	11 (0)	aryzou.	-			_
Laboratory Sample ID	_	12286			12287			12288			12289	
Client Sample ID		13			14			15			16	
Location	3rd FI	- Tower		100000000000000000000000000000000000000	FI - Tow		4th FI	- Tower 1	- Study	4th FI	- Tower	1 - Floor
		Lounge		Stı	ıdy Loun	ge B		Lounge			Lounge	
Volume (L)		150			150			150			150	
Background Debris*		Light			Light			Light			Light	
Sample Description		Allergence		1	Mergenc		1	Allergenco		,	Allergend	:oD
	Raw ct	No./m³	%	Raw ct	No./m°	%	Raw cts	No./m	%	Raw ct	No. /m°	%
Char particulate:	223	1,487	98.67	107	713	95.45	54	360	85.71	13	87	81.31
												101.01
						-				_		+
	_			_		-						-
	_											
								. O				
Soot particulate	1	7	0.46	1	7	0.94	2	13	3.10	1	7	6.54
						0.0			0.10		-	0.54
		_							-			-
	_			_								-
	_											
												-
Ash:	2	13	0.86	4	27	3.61	7	47	11.19	2	13	40.45
		-10	0.00	7		3.01	,	41	11.19	2	13	12.15
Total numbers / m³		1,507			747			420			107	
Comments	1	1,507			141			420			107	
Limit of Detection	1	7			7			-				
*Background debris is an indica	ll diam of a con-				<i>'</i>			7			7	

1/13/2025



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Client's Project: CSULA - Student Housing East E225-004

Lab Reference No.: 00028-25-0040
Date Collected: January 12, 2025
Date Received: January 13, 2025
Date Analyzed: January 13, 2025

Sample(s) analyzed: 69

Laboratory Sample ID	1	12290			12291		11	12202		1	40000	
Client Sample ID	-	17		╢──	12291		 	12292 19		-	12293	
	4th FI	- Tower	1 - Study	5th FI		1_ Study	5th El	- Tower	1 Floor	Eth FI	20	1 041
Location		Lounge	B		Lounge		Juiri	Lounge		oth Fi	- Tower Lounge	
Volume (L)		150			150		1	150			150	Ь
Background Debris*		Light			Light			Light		 	Light	
Sample Description	7	Allergenc	oD	-	Allergenc	oD	 	Allergence	DD.		Allergenc	οD
		No. /m		Raw c	No. /m	%	Raw cts	No. /m	%		No. /m	%
Char particulate:	11	73	78.49	15	100	78.74	5	33	100.00	9	60	89.55
				-	100	10.71		- 55	100.00	9	00	09.00
			+			1						-
			+	_								
	_		-				_					
			-	_	-							
Soot particulate	2	13	13.98	1	7	5.51	0	0	0.00	0	0	0.00
												_
												_
									_			-
									-			
Ash:	1	7	7.50	-		45.75						
A311.	1		7.53	3	20	15.75	0	0	0.00	1	7	10.45
	11					n						
Total numbers / m ³		93			127			33			67	
Comments					141			33			07	
Limit of Detection		7			7			7		-	7	
*Background debrie is an indicat	ion of on		hialasia	al moral or								

*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.

P. Chakravarty

1/13/2025



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Mario Virgen/Miguel Virgen

Lab Reference No.:

Global Environmental Training & Consulting

Date Collected

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Client's Project: CSULA - Student Housing East E225-004

Lab Reference No.: 00028-25-0040
Date Collected: January 12, 2025
Date Received: January 13, 2025
Date Analyzed: January 13, 2025

Sample(s) analyzed: 69

Laboratory Sample ID	T	12201		1	4000=	The second second second	II	laryzeu.		11		
Client Sample ID	╂	12294	1	-	12295			12296			12297	
•	011 5:	21		-	22			23			24	
Location	oth FI	- Tower	ı - Study ^	6th FI			6th FI	- Tower 1	- Study	7th FI	- Tower	
Volume (L)	₩—	Lounge 150	A	╢──	Lounge 150	9		Lounge E	3	 	Lounge	A
Background Debris*	╂──						 	150			150	
Sample Description	 	Light Allergenc	- D	ļ	Very ligh			Light			Light	
Cample Bescription		No. /m	% %	Dow o	Allergenc No./m	оD %		Allergence	DD		Allergenc	
Char particulate:	13	87	76.32	4	27	100.00	Raw cts		-		No./m³	% Tanan
The particulation	10	- 07	70.52		21	100.00	4	27	79.41	4	27	65.85
						-						
							T I		p.			
	3											
												+
Soot particulate	1	7	6.14	0	0	0.00	0	0	0.00	1	7	17.07
							_		0.00			17.07
							_					-
												-
				_								
A . I												
Ash:	3	20	17.54	0	0	0.00	1	7	20.59	1	7	17.07
				T Y								
Total numbers / m³		111			27			0.4				
Comments		114			27			34			41	
Limit of Detection												
*Background dobris is an indicati		7			7			7			7	

1/13/2025



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Client's Project: CSULA - Student Housing East E225-004

Lab Reference No.: 00028-25-0040
Date Collected: January 12, 2025
Date Received: January 13, 2025
Date Analyzed: January 13, 2025

Sample(s) analyzed: 69

Laboratory Sample ID		12298			12299			12300		Т	12301	
Client Sample ID		25			26			27			28	
Location	7th Fi		1 - Floor	7th FI	- Tower	1- Study	8th FI	- Tower 2	- Study	8th F	I - Tower	2 - Floor
		Lounge	9	-	Lounge	В		Lounge /			Lounge	
Volume (L)		150			150			150			150	
Background Debris*	┦	Light	_		Light			Light			Light	
Sample Description	Pow of	Allergend No./m	% %		Allergenc		1	Allergence	DD		Allergend	
Char particulate:					No./m	%		No./m			No. /m°	%
Onal particulate.	3	20	100.00	4	27	100.00	7	47	87.04	5	33	62.26
							i					
Soot particulate	0	0	0.00	0	0	0.00	0	0	0.00	1	7	13.21
	T O											
												\vdash
	0	0	0.00	0	0	0.00	1	7	12.96	2	13	24.53
Ash:												21.00
												-
	,											-
Total numbers / m³		20			27			F.4				
Comments	-	20						54			53	
Limit of Detection		7			7			7				
*Background debris is an indicate	lion of an	7						7			7	

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E-mail: microbiology99@aol.com

Lab Reference No.:

00028-25-0040

Date Collected: Date Received:

January 12, 2025 January 13, 2025

Date Analyzed:

January 13, 2025

Client's Project: CSULA - S	Student F	lousing	East E2	25-004	1	Samp	le(s) an	alyzed:	69			
Laboratory Sample ID		12302	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO		12303	The state of the s		12304			12305	
Client Sample ID		29			30			31		╂──	32	
Location	8th FI	- Tower 2	2 - Study	7th FI	- Tower	2 - Study	7th FI	Tower 2	- Floor	7th FI	- Tower	2 - Study
Volume (L)		Lounge	В		Lounge	Α		Lounge	_	5888287 15 8	Lounge	
	_	150		_	150			150			150	
Background Debris* Sample Description		Light	_		Light			Light			Light	
Sample Description		Allergenc No./m			Allergend No. /m			llergence			Allergenc	
Char particulate:	6						Raw cts				No. /m³	%
onal particulate.	Ь	40	75.47	5	33	100.00	2	13	100.00	5	33	82.50
			_									
			-									
				- 1			U					
Soot particulate	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00
	- 4											_
									\vdash			+
												
Ash:	2	13	24.53	0	0	0.00	0	0	0.00	1	7	17.50
												17.00
				-11								
Total numbers / m³		53		1	33			42			40	
Comments	-	33			<u>აა</u>			13			40	
Limit of Detection	-	7			7			7				
Background debris is an indica	lion of am		hiologica	al and se		ical parti	oulata :				7	

1/13/2025

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Tel: 626-962-4436 Fax: 626-962-4437 E-mail: staff@globalenvirotraining.com

Client's Project: CSULA - Student Housing East E225-004

Lab Reference No.: 00028-25-0040
Date Collected: January 12, 2025
Date Received: January 13, 2025

January 13, 2025 January 13, 2025

Sample(s) analyzed: 69

Date Analyzed:

Olients Froject. CSOLA - S	tudent r			25-002	†	Samp	ie(s) an	aiyzed:	69			
Laboratory Sample ID		12306	1		1230	7		12308			12309	
Client Sample ID		33			34			35			36	
Location	6th FI	 Tower Lounge 	2- Study A	6th FI	- Tower	2 - Floor		Tower 2 Lounge I		5th FI	- Tower 2 Lounge	
Volume (L)		150			150			150			150	Α
Background Debris*		Light			Light			Light		1	Light	
Sample Description		Allergend		 	Allergen	coD	- A	llergence	DD .	 	Allergenc	:oD
	Raw ct	No./m	%		t No./m		Raw cts				No. /m	%
Char particulate:	7	47	78.33	4	27	79.41	7	47	63.51	3	20	100.00
												-
					la c		- 1					
Soot particulate												
oot particulate	0	0	0.00	0	0	0.00	1	7	9.46	0	0	0.00
										<u> </u>		
						+						
												-
				_								-
						+						-
			-	-								
Ash:	2	13	21.67	1	7	20.59	3	20	27.03	0	0	0.00
									21.00			0.00
			<u> </u>									
Total numbers / m³		60			34	-		74			20	
Comments												
Limit of Detection		7			7			7			7	
*Dackground dobrie is an indicat												

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Lab Reference No.:

00028-25-0040

January 12, 2025

Date Collected: Date Received:

January 13, 2025

Date Analyzed:

January 13, 2025

Client's Project: CSULA - S	tudent F	Housing	East E2	25-004		Samp	le(s) an	alyzed:	69			
Laboratory Sample ID		12310	The second second second		12311			12312		T	12313	3
Client Sample ID		37			38			39			40	
Location	5th FI	- Tower		5th FI	- Tower :	2 - Study	4th FI -	Tower 2	- Study	4th F	- Tower	2 - Floor
	┦	Lounge			Lounge			Lounge A			Lounge	
Volume (L)	4	150			150			150			150	
Background Debris*		Light			Light			Light			Light	
Sample Description		Allergenc			Allergenc			llergenco			Allergend	
Char particulates		No./m	_		No. /m	_	Raw cts			Raw ct	No. /m°	%
Char particulate:	9	60	75.00	6	40	100.00	11	73	83.91	4	27	100.00
							1					
				-								
				- 1								
												-
												_
												+
						\vdash						-
Soot particulate	1	7	8.75	0	0	0.00	1	7	8.05	0	0	0.00
•			00			0.00			0.05	0	U	0.00
							_					_
												-
												-
												-
					-							-
	_											
												\perp
		- 40	10.0=									
Ash:	2	13	16.25	0	0	0.00	1	7	8.05	0	0	0.00
ASII.				I						1		

											-	
Total numbers / m ³		80			40			87			27	4
Comments					70			01				
Limit of Detection		7			7			7			7	
*Background debris is an indicat	ion of an		hiologia	ol and n							,	

1/13/2025



Pasteur Laboratory

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E-mail: microbiology99@aol.com

Mario Virgen/Miguel Virgen Lab Reference No.:

Global Environmental Training & Consulting

Date Collect
Date Collect
Date Receives

Tel: 626-962-4436 Fax: 626-962-4437 E-mail: staff@globalenvirotraining.com

Client's Project: CSULA - Student Housing East E225-004

Lab Reference No.: 00028-25-0040
Date Collected: January 12, 2025
Date Received: January 13, 2025

Date Analyzed: January 13, 2025

Sample(s) analyzed: 69

Laboratory Sample ID		12314			10045			40040		11		-
Client Sample ID		230 mars at a		₩	12315			12316			12317	
	145 =	41	0 51.	0.15:	42			43			44	
Location	#th Fi				- Tower 2		3rd FI	- Tower 2	- Floor	3rd FI	- Tower	
Volume (L)	╢	Lounge 150	В	-	Lounge /	4	-	Lounge			Lounge	В
Background Debris*	╢——			-				150			150	
Sample Description	╢	Light	-D		Moderat			Moderate			Moderat	
Sample Description		Allergenc No./m			No. /m	% %		llergenco			Allergenc	
Char particulate:	3							No. /m ^o	_	_	No. /m³	%
Chai particulate.	3	20	100.00	41	273	93.17	53	353	86.73	12	80	62.99
			,			1.						
												_
												_
			-				_					-
Soot particulate	0	0	0.00	2	13	4.44	1	7	1.72	3	20	15.75
			0.00			7.77	- '		1.72	3	20	15.75
			-	_								-
				19								
Ash:	0	0	0.00	1	7	2.39	7	47	11.55	4	27	21.26
			·									
									- 1			
T-4-1 / 3							U.S.					
Total numbers / m³		20			293			407			127	
Comments												
Limit of Detection		7			7			7			7	

1/13/2025



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Mario Virgen/Miguel Virgen Lab Reference No.:

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Tel: 626-962-4436 Fax: 626-962-4437 E-mail: staff@globalenvirotraining.com

00028-25-0040 Date Collected: January 12, 2025 Date Received: January 13, 2025 Date Analyzed: January 13, 2025

Client's Project: CSULA - S	tudent F	lousing	East E2		Samp	le(s) an	alyzed:	69				
Laboratory Sample ID		12318			12319			12320			12321	
Client Sample ID		45			46			47			48	
Location	2nd Fi	- Tower :	2 - Study	2nd FI	- Tower	2 - Floor	2nd FI	- Tower 2	- Study	2nd F	I-Tower 3	- Study
		Lounge	A		Lounge			Lounge E			Lounge .	
Volume (L)		150			150			150			150	
Background Debris*	İ	Light			Light			Light			Moderat	<u> </u>
Sample Description		Allergenc		F	Allergenc			llergenco			Allergence	oD
		No./m°	%		No./m°	%	Raw cts	No./m	%	Raw ct	No./m°	%
Char particulate:	6	40	100.00	9	60	89.55	7	47	100.00	81	540	90.00
							_			_		
										_		-
						-			_			-
						\vdash						
Soot particulate	0		0.00	_								
Ooot particulate	0	0	0.00	0	0	0.00	0	0	0.00	2	13	2.17
				i - 7			- 1					
				- 1								
Ash:	0	0	0.00	1	7	10.45	0	0	0.00	7	47	7.83
					· ·	10.10			0.00	-	41	7.03
										_ ==		
Total numbers / m³		40			67			47			600	
Comments												
Limit of Detection		7			7			7			7	
Background dehris is an indicat	ion of am	ounts of	hiologias	l and no	n hiolog	aal nami		- 44		11		

1/13/2025



Pasteur Laboratory

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E-mail: microbiology99@aol.com

Mario Virgen/Miguel Virgen Lab Reference No.:

Global Environmental Training & Consulting

Date Collected

Date Received

Date Received

Tel: 626-962-4436 Fax: 626-962-4437 E-mail: staff@globalenvirotraining.com

Client's Project: CSULA - Student Housing East E225-004

Lab Reference No.: 00028-25-0040
Date Collected: January 12, 2025
Date Received: January 13, 2025
Date Analyzed: January 13, 2025

Sample(s) analyzed: 69

-						, ,					
	12322			12323			12324			12325	
	49			50			51			52	
2nd FI			2nc	FI - Tow	er 3 -	3rd FI	- Tower 3	Study	3rd FI	- Tower	3 - Floor
-)	Stı		ge B		Lounge A				No.
-										150	
										Light	
			/	Allergenc							
		-			_			_		No./m³	%
8	53	80.30	9	60	89.55	44	293	87.99	9	60	100.00
			- 1								
											†
											1
											
						_			_		
0	0	0.00	0	0	0.00	2	12	2.00	0	0	0.00
		0.00		- 0	0.00		13	3.90	U	U	0.00
											- 1
									-		
2	13	19.70	1	7	10.45	4	27	8.11	0	0	0.00
	66			67			000				
	66			6/			333			60	
	7			7							
on of c		hialaa'	11				7			7	
	Raw ct 8	2 13	2nd FI - Tower 3 - Floor Lounge 150 Light AllergencoD Raw ctt No. /m" % 8 53 80.30 0 0 0.00 2 13 19.70 666	#9 2nd FI - Tower 3 - Floor Lounge 150 Light AllergencoD Raw cts No. /m³ % Raw ct 8 53 80.30 9 0 0 0.00 0 0 1 0.00 0 2 13 19.70 1 666	## 50 2nd FI - Tower 3 - Floor Lounge	12322	12322	A9	12322	12322	12322

1/13/2025



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Client's Project: CSULA - Student Housing East E225-004

Lab Reference No.:
Date Collected:
Date Received:

Date Analyzed:

January 12, 2025 January 13, 2025

00028-25-0040

January 13, 2025

Sample(s) analyzed: 69

						Janip	.5(5) an	ulyzcu.				
Laboratory Sample ID		12326			12327			12328			12329	·
Client Sample ID		53			54			55			56	
Location	3rd FI	- Tower 3	3 - Study	4th FI	- Tower :	3 - Study	4th FI	- Tower 3	3- Floor	4th F	loor - To	wer 3 -
222-0 100-00-00	 	Lounge	В	 	Lounge	A		Lounge			udy Loun	
Volume (L)		150			150			150			150	
Background Debris*		Moderat			Light			Light			Moderat	e
Sample Description		Allergenc		F	Allergenc			Allergenco		7	Allergence	oD
		No./m°	%	Raw ct	No./m	%	Raw cts	No./m	%	Raw cts	No. /m°	%
Char particulate:	31	207	88.46	12	80	91.95	7	47	100.00	63	420	91.30
												-
							_		-			
				_								
							_					
										i		
Cook months and a										1		
Soot particulate	1	7	2.99	0	0	0.00	0	0	0.00	2	13	2.83
	-			- 1								
					1							
								-				
												-
Ash:	-							2				
ASII.	3	20	8.55	1	7	8.05	0	0	0.00	4	27	5.87
	-											
							1					
Total numbers / m ³		234			87			47			400	$\overline{}$
Comments		254			01			47			460	
Limit of Detection		7			7							
*Background debris is an indicati	on of am		hiologi	ol and :-				7			7	
Duongi Juliu ucbi is all Illulcall	UII UI dii	IUUIIIS OT	DIOIODICS	น ลกด ทัก	วย-ยเดเดส	ıcal nartı	culate m	attore pro	cont on	the cam	nlo and i	_

1/13/2025



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Client's Project: CSULA - Student Housing East E225-004

Lab Reference No.:
Date Collected:
Date Received:

January 12, 2025 January 13, 2025

00028-25-0040

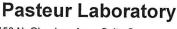
Date Analyzed:

January 13, 2025

Sample(s) analyzed: 69

Laboratori Comit 15	11		THE RESERVE OF THE PERSON NAMED IN COLUMN 1	_		- Sillip	0	aryzou.						
Laboratory Sample ID		12330			12331			12332			12333			
Client Sample ID		57			58			59			60			
Location	5th FI	5th FI - Tower 3 - Study			5th FI - Tower 3 - Floor			th FI Tower 3 - Study			6th FI - Tower 3 - Study			
CONTROL CONTRO	-	Lounge A			Lounge			Lounge B			Lounge A			
Volume (L)	-	150			150			150			150			
Background Debris*		Moderat			Light			Moderate			Moderate			
Sample Description		AllergencoD			AllergencoD			AllergencoD			AllergencoD			
	Raw cts No. /m° %			Raw ct No. /m° %			Raw cts No. /m° %			Raw ct: No. /m° %				
Char particulate:	106	707	89.83	12	80	91.95	41	273	93.17	37	247	84.30		
									†			E. Male		
									_			+		
			_			_				_				
			 						-			-		
· · · · · · · · · · · · · · · · · · ·														
										-				
							1							
Soot particulate	4	27	3.43	0	0	0.00	2	13	4.44	2	13	4.44		
						-						-		
							1							
							L I							
Ash:	8	53	6.73	1	7	8.05	1	7	2.39	5	33	11.26		
T / 1														
Total numbers / m³		787			87			293			293			
Comments											200			
Limit of Detection		7		7			7			7				
*Background debris is an indicati	ion of am	ounts of	biologica	al and no	n-hiolog	ical narti	culate m	atters pro	sent on	the can	anlo and			

1/13/2025



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Client's Project: CSULA - Student Housing East E225-004

Lab Reference No.: Date Collected: 00028-25-0040 January 12, 2025 January 13, 2025

Date Received: Date Analyzed:

January 13, 2025

Sample(s) analyzed: 69

Laboratory Sample ID		12334		12335			12226 12227							
Client Sample ID	_	61			12335 62			12336			12337			
	6th F				15.00			63			64			
Location	Ourr	out Fi - Tower 3- Floor			6th FI - Tower 3 - Study					7th FI - Tower 3 - Floor				
Volume (L)	1	Lounge 150			Lounge B 150			Lounge A 150			Lounge			
Background Debris*	_	-		\vdash							150			
Sample Description		Light AllergencoD			Light AllergencoD			Moderate			Light			
Tampie 2 description							AllergencoD Raw cts No. /m° %			AllergencoD Raw cts No. /m° %				
Char particulate:	12	80	60.15	26	173	81.22	109	727	89.42	11	73	73.00		
·			777.10		1,10	O I.LL	100	121	03.42	- 11	73	73.00		
						-	_							
	_		-											
Soot particulate	2	13	9.77	3	20	9.39	5	33	4.06	0	0	0.00		
	1													
												_		
					-									
				_										
Ash:														
ASII.	6	40	30.08	3	20	9.39	8	53	6.52	4	27	27.00		
										V				
							1.5			- 1				
Total numbers / m³		133			213			813			100			
Comments					210			010			100			
Limit of Detection		7		7			7			7				
*Background debris is an indica	tion of am		hiologias	al and n				ulata matters			,			

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Pasteur Laboratory

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E-mail: microbiology99@aol.com

Lab Reference No.:

00028-25-0040

Date Collected: Date Received: January 12, 2025

January 13, 2025 January 13, 2025

Date Analyzed:

Client's Project: CSULA - S	tudent F	lousing	East E2	25-004		Samp	le(s) an	alvzed:	69				
Laboratory Sample ID		12338		12339			(5) 311	12340		12341			
Client Sample ID		65		66			67			68			
Location	7th FI	- Tower 3	3 - Study	8th FI - Tower 3 - Study			8th FI - Tower 3 - Floor			8th FI - Tower 3 - Study			
		Lounge		Lounge A			Lounge			Lounge B			
Volume (L)		150		150			150			150			
Background Debris*	<u> </u>	Light	_	Light				Light		Moderate			
Sample Description	AllergencoD Raw cts No. /m° %			AllergencoD Raw ct No. /m° %				llergenco		AllergencoD Raw cts No. /m %			
Char particulate:						_	Raw cts		No./m° %				
Chai particulate.	14	93	86.92	8	53	72.60	13	87	68.50	87	580	86.18	
												T	
												T	
Soot particulate	1	7	6.54	0	0	0.00	0	0	0.00	3	20	2.97	
				-								1	
	1												
Ash:	1	7	6.54	3	20	27.40	6	40	31.50	11	73	10.85	
									011.00			10.00	
						<u> </u>							
				The state of						1			
Total numbers / m ³		407			70			40=			-		
Comments		107		73			127			673			
Limit of Detection		7		_									
*Background debris is an indicat	ion of or		hiologi	land:	7			7		7			

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1/13/2025

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Mario Virgen/Miguel Virgen



Pasteur Laboratory

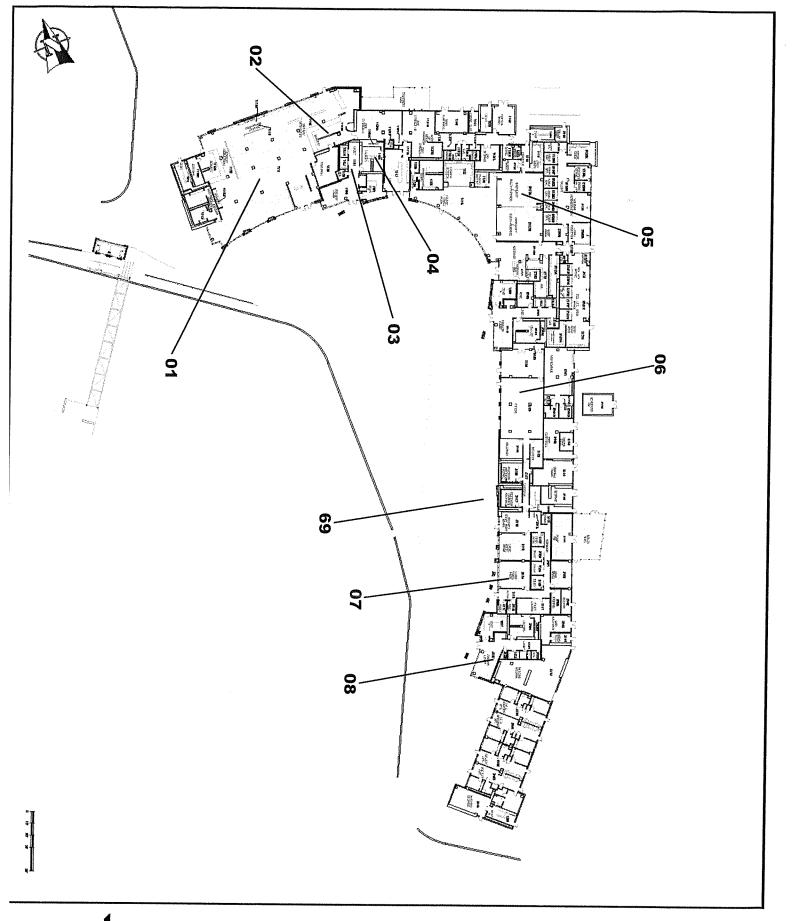
158 N. Glendora Ave., Suite S Glendora, CA 91741 Tel: (626) 963-8686

E-mail: microbiology99@aol.com

Lab Reference No.: 00028-25-0040
Date Collected: January 12, 2025
Date Received: January 13, 2025
Date Analyzed: January 13, 2025

Client's Project: CSULA - S	tudent F	lousing (East E2	5-004	Samp	ole(s) analyz	zed: 69			
Laboratory Sample ID		12342				1		T		
Client Sample ID		69						1		
Location	Ou	tside (cor	ntrol)							
Volume (L)		150				┨───		1		
Background Debris*		Heavy				 		1		
Sample Description	1	Mergenco						-		
		Raw ct: No. /m° %								
Char particulate:	1983	13,220	91.30							
		(4								
Coot portioulate										
Soot particulate	76	507	3.50							
					_					
					_					
					_					
					-			_		
					_					_
								-		
							-			
Ash:	113	753	5.20							
Total numbers / m³		14,480	-							
Comments		.,								
Limit of Detection		7								
*Background debris is an indicat	ion of am	ounts of	piologica	and non-hir	logical part	iculate matte	re procent on	the com	anlo and i	_

APPENDIX C SAMPLING SCHEME



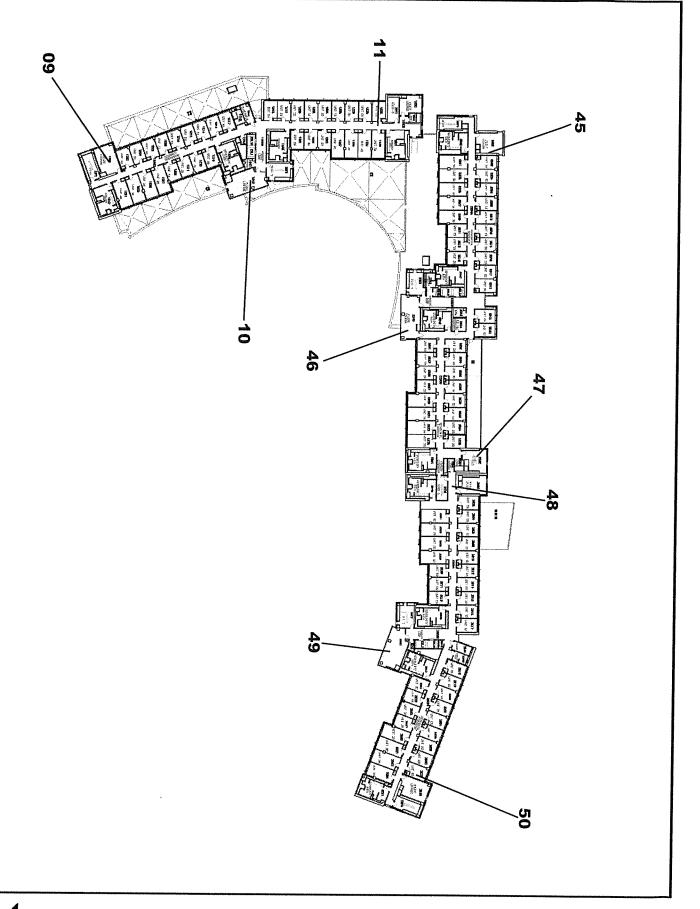
STUDENT HOUSING EAST

FIRST FLOOR



CAL STATE LA





BLDG 53

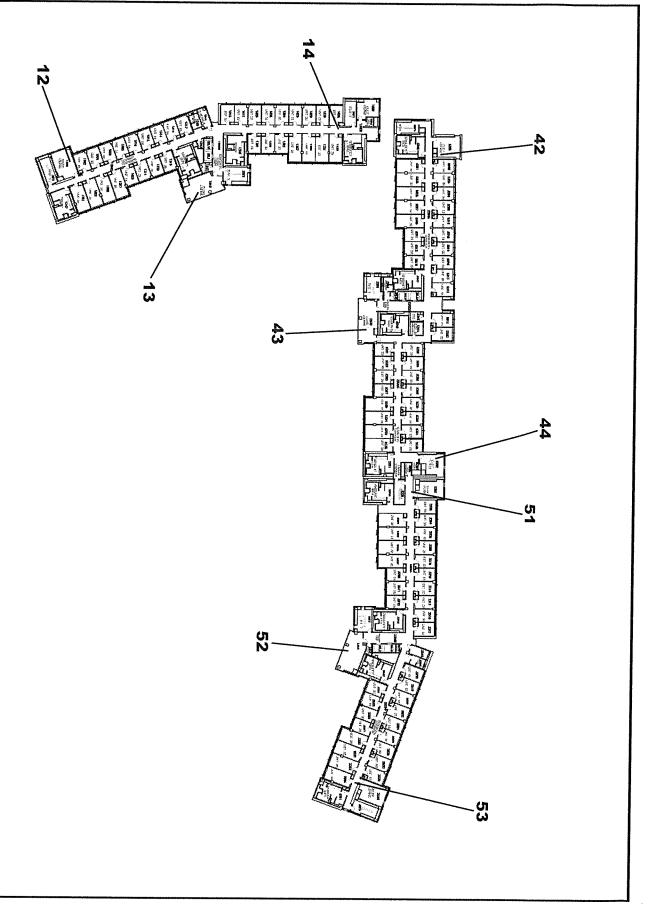
STUDENT HOUSING EAST

SECOND FLOOR

LAST UPDATED: 8-24-22



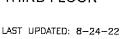






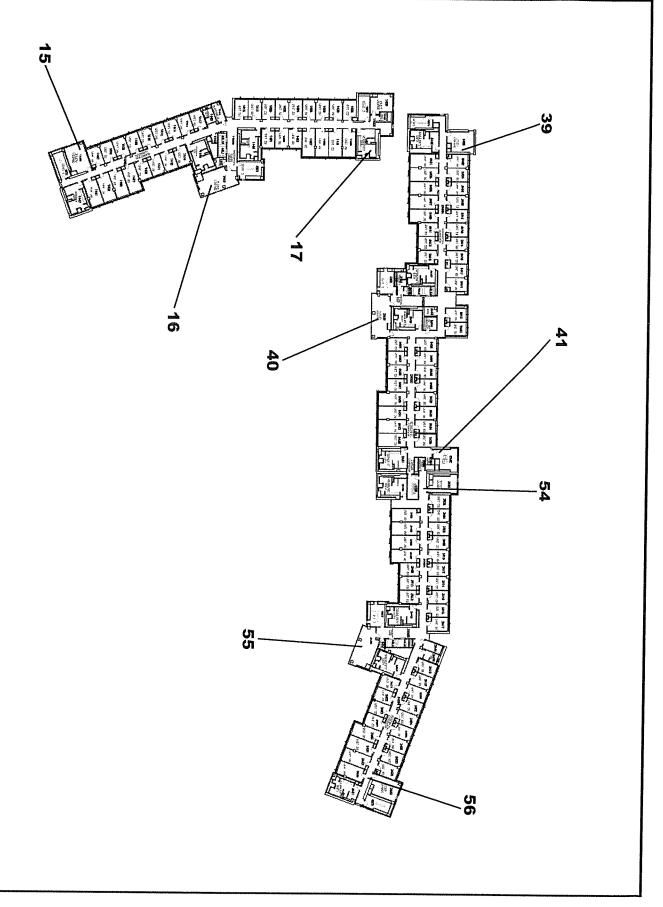
STUDENT HOUSING EAST

THIRD FLOOR







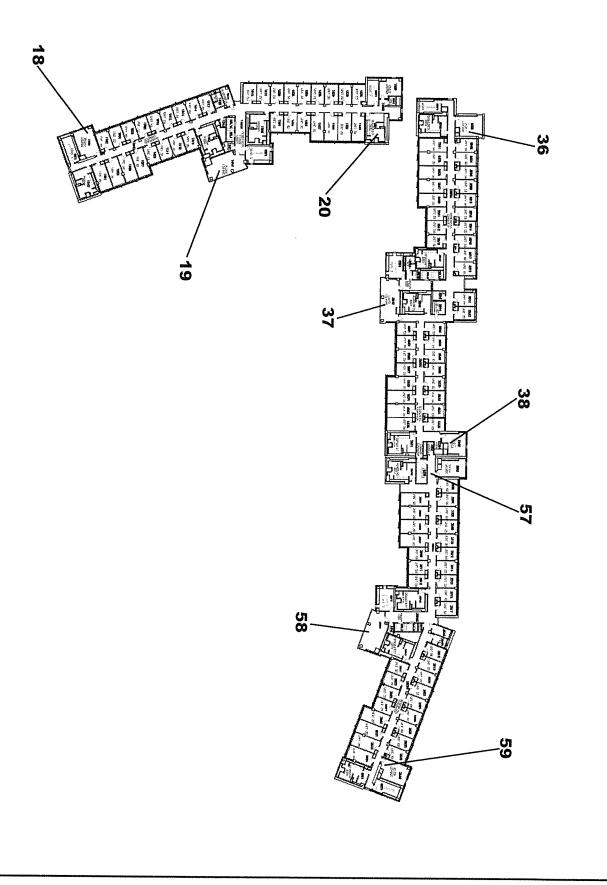




FOURTH FLOOR

CAL STATE LA





A 10 10



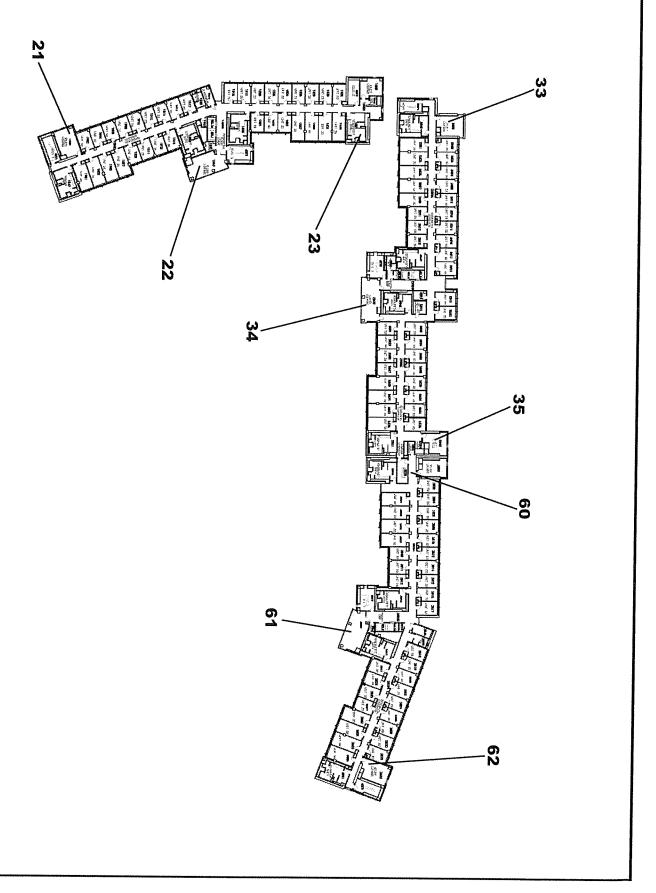
STUDENT HOUSING EAST

FIFTH FLOOR









4 X



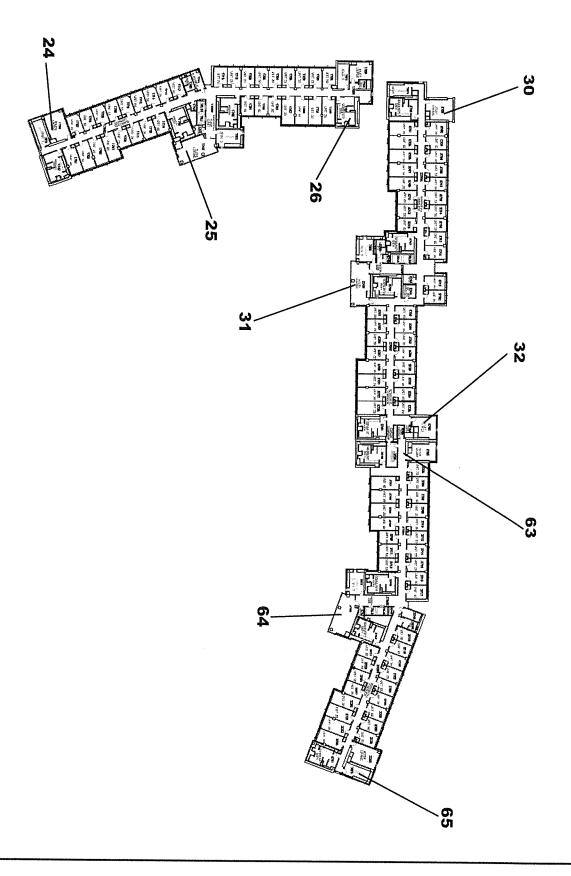
STUDENT HOUSING EAST

SIXTH FLOOR

LAST UPDATED: 8-24-22







Z X



STUDENT HOUSING EAST

SEVENTH FLOOR



