

LIMITED INDOOR AIR ASSESSMENT REPORT

LIMESTONE HEALTH FACILITY 1600 WEST HOBBS STREET ATHENS, ALABAMA 35611

Prepared For:

VentorLux, LLC 1210 43rd Street Phenix City, Alabama 36867

Prepared by:

ERRM, LLC 7972 Hampton Cove Drive Ooltewah, Tennessee 37363

September 10, 2021

TABLE OF CO	NTENTS
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SECTION 1.0 – LIMITED INDOOR AIR ASSESSMENT	1
1.1 INTRODUCTION	1
1.2 FIELD ACTIVITIES	1
2.0 RESULTS	2
2.1 AREA 1 Patient Physical Therapy	2
2.1 AREA 2 Patient Room with PTAC unit for Heating and Cooling	4
2.1 CONCLUSIONS	6
Appendices:	

Appendix A	Laboratory Tables
Appendix B	Raw Laboratory Data

SECTION 1.0 – LIMITED INDOOR AIR ASSESSMENT

1.1 INTRODUCTION

ERRM, LLC was contracted by VentorLux, LLC to collect indoor air samples for the purpose of determining the effectiveness of its Soulis air cleaner. The Soulis air cleaner is a proprietary unit developed with quiet operation and using Ultra-Violet Radiation that kills such things as bacteria (including virus causing agents), pathogens, and mold. The Indoor Air Assessment (IAA) was limited to two (2) locations mutually agreed upon by Limestone Health Facility, VentorLux, and ERRM, LLC. Those two locations were as follows:

- 1. Patient Physical Therapy Room operated with the buildings area wide HVAC unit
- 2. Representative patient room (identifier left out) operated with a through the wall "PTAC" unit meaning it will introduce outside air spores when operating

The IAA parameters included in the testing conducted at this facility included the following:

- Spore Trap this unit impinges air borne particles, including mold, onto a sticky surface that can be viewed under the laboratory microscope by a trained reader. This unit provides a total count of spores whether dead or alive, viable or not. This report and lab data will refer to this as "Spore Trap".
- Culturable Air Fungi The method employs an Anderson impinger that directs air flow onto a petri dish (Malt Extract Agar Plate) that is cultured at the lab. This media allows isolation of pathogenic fungi that are "viable". It will grow a wide variety of fungi that can then be identified at the laboratory. This report and lab data will refer to this as "MEA".
- Culturable Air Bacteria The method employs an Anderson impinger that directs air flow onto a petri dish (Tryptic Soy Agar with blood plate lab) that is cultivated to determine hemolytic activity of bacteria and identification. This method of analysis can identify differing types of infectious bacteria groups i.e., Gram-Negative, Gram-Positive, etc. This report and lab data will refer to this as "TSA".

1.2 FIELD ACTIVITIES

ERRM, LLC performed the following field activities specifically to determine the effectiveness of the Soulis unit.

IAA Sampling

• On July 29, 2020, ERRM, LLC (Mr. Michael Kendall) was on-site to perform the IAA. The equipment was setup (two rotary vane pumps filed calibrated to 28.1 liters per minute



(LPM) for MEA and TSA Agar and a separate pump calibrated to 10 LPM for the Spore Trap). Five (5) samples were collected at each testing location as follows:

- 1. One (1) Background air sample, using the Spore Trap, MEA, and TSA media to collect the air-borne species prior to turning on the Soulis unit. The samples were collected over a 10-minute interval as needed for each analysis method.
- 2. One (1) sample (sample pumps turned on simultaneously with the Soulis Unit) and using the Spore Trap and MEA media to collect the air-borne species. The samples were collected over a 10-minute interval as needed for each analysis method.
- 3. One (1) sample (sample pumps turned on simultaneously with the Soulis Unit) and using the Spore Trap, MEA, and TSA media to collect the air-borne species. The samples were collected over a 10-minute interval as needed for each analysis method.
- 4. One (1) sample (sample pumps turned on simultaneously with the Soulis Unit) and using the Spore Trap and MEA media to collect the air-borne species. The samples were collected over a 10-minute interval as needed for each analysis method.
- 5. One (1) sample (sample pumps turned on simultaneously with the Soulis Unit) and using the Spore Trap, MEA, and TSA media to collect the air-borne species. The samples were collected over a 10-minute interval as needed for each analysis method.
- Best practices were taken by personnel to ensure quality of the project. Since this was a
 test procedure building occupants were allowed to come and go during the testing
 procedure and the HVAC units were left in operating mode. The times were recorded to
 provide an understanding of the results, the impact on the results and the effectiveness
 of the Soulis Unit under normal operating conditions.

2.0 RESULTS

The laboratory data has been prepared in three (3) summary tables one for each of the procedures using Spore Trap, MEA, and TSA. The raw laboratory results are attached in Appendix B. The results are discussed separately in following sections.

2.1 AREA 1 Patient Physical Therapy

The laboratory results are presented in the graphs below with discussion of the results below each graph. The data presented as count versus time (0-40 minutes)





The preceding chart reveals that total spore counts ranged up and down with activity present in the room bringing in spores with movement and air exchanges.



The preceding chart reveals that the Soulis unit effectively killed 97.30% of the viable mold spores within the first 10 minutes. Bacteria and Spores were introduced due to activity in the room, yet the viable mold spores were continually killed.





The preceding chart reveals that the Soulis unit effectively killed 89.71% of the bacteria present within 10 minutes (this chart is depicting Gram Positive Cocci – Type I, meaning can cause certain infections like pneumococcal, staphylococcal, streptococcal, and others. Bacteria and spores were introduced due to activity in the room, yet the bacterial were continually killed.



2.1 AREA 2 Patient Room with PTAC unit for Heating and Cooling

The preceding chart reveals that total spore counts ranged up and down with activity present in the room bringing in spores with movement and air exchanges.





In this preceding chart, due to this room being a patient room and patient moving in and out along with spores being introduced through the PTAC unit, a slight decline followed by a steady increase is shown. During the last approximate 15 minutes of testing the patients sat, ate dinner, and watched TV. In this timeframe the Soulis unit effectively killed 48.07% of the viable mold spores within 10 minutes.



The preceding chart reveals that the Soulis unit effectively killed 95.35% of the bacteria present (this chart is depicting Gram Positive Cocci – Type I, meaning can cause certain infections like pneumococcal, staphylococcal, streptococcal, and others. Bacteria and spores were introduced due to activity in the room, yet the bacterial were continually killed



2.1 CONCLUSIONS

Based upon the results presented above ERRM, LLC concludes that the Soulis Unit is extremely effective in killing mold spores and all varieties of bacteria within a short timeframe. The unit proved successful operating in an uncontrolled environment with spores and bacteria being introduced throughout the study.



APPENDIX A

LABORATORY TABLES

Account: ERRMMOLD SDG: L1385026 Matrices:																																						
Lab Sample ID	L138502	26-01			L13850	26-02			Ll	385026-0	3		L13850	26-04			L1385	5026-05			L13	85026-06			L1385026-07			L138502	6-08		Ll	385026-0	9		L1?	85026-10		
Client Sample ID	A1-S1				A1-S2				Al	-S3			A1-S4				A1-S:	5			A2-	-S1			A2-S2			A2-S3			A2	-S4		-	A2	-85	-	
Date Collected	07/29/20	21			07/29/20	021			07	29/2021			07/29/2	021			07/29/	/2021			07/2	29/2021			07/29/2021			07/29/202	21		07	29/2021		-	07/	29/2021	-	
Location	Area 1-1	0-0min			Area 1-	0-10mir	n		Ar	ea 1-10-2	Omin		Area 1-	10-30min	I		Area	1-10-40mi	in		Are	a 2-10-0min			Area 2-10-10	min		Area 2-10)-20min		Ar	a 2-10-3)min		Are	a 2-10-40r	nin	
Analysis Description	Non-Via	ible (Spore	e Trap)		Non-Vi	able (Spo	ore Trap)		Nc	n-Viable	(Spore Trap)	Non-Vi	able (Spo	re Trap)		Non-V	Viable (Sp	oore Trap)		Nor	1-Viable (Spor	e Trap)		Non-Viable (Spore Trap)	Non-Vial	ole (Spore '	Trap)	No	n-Viable	Spore T	rap)	No	a-Viable (S	pore Trap)
Volume Used				1:	50				150			15	0			15	0			1	150			150			150)			150			-	150	-	-	150
Volume Used Units	L				L				L				L				L				L				L			L			L			-	L	-	-	
Background Debris	Heavy				Heavy				He	avy			Heavy				Heavy	у			Hea	ivy			Heavy			Heavy			He	avy			Her	ivy		
Method Analyte	Raw Count	Result Of To	ercent f A otal	Percen S Of Slic Read	t Raw I de Count f	Resul Po	ercent f Total	AS Perce Slide	nt Of Ra Read Co	w Resu unt t	Percent Of A Total	Percent S Of Slid Read	e Raw Count	Result t	Percen Of A Fotal	S Of Slide Read	nt Raw Count	t Result	Percent Of A Total	AS Slide Read	ent Rav e Cou d	v Resul Per Int t Tot	cent As	Percent Of Slide Read	Raw Resul Count t	Percent Of A Total	S Of Slide Read	Raw Count R	Perce esult Of Total	AS	Percent Of Ra Slide Co Read	w unt Resu	Percer Of Total	at AS F	Percen Of Rav Slide Cou Read	v int Result	Percent Of A Total	AS Percent Of Slide Read
ENV-SOP-MTJL-0235 ASCOSPORES	0			10	00 1	7	2.55	7	100	5 3.	6.03	7 10	0 2	13	5.12	7 10	00 0	0		1	100	0		100	4 27	1.6	7 100	7	47 2.	64 7	100	3 2	0 1.2	26 7	100	0		100
ENV-SOP-MTJL-0235 BASIDIOSPORES	9	60	40.8	7 1	00 28	187	68.2	7	100	44 29	3 53.6	7 10	0 21	140	55.1	7 10	00 10	0 67	62.6	7 1	100	67 447 :	51.1	7 100	197 1310	77.5	7 100	217	1450 81	1.5 7	100	202 135	0 84.	.9 7	100 1	52 1010	87.8	7 100
ENV-SOP-MTJL-0235 BIPOLARIS/DRECHSLERA	0			10	00 0				100	0		10	0 1	7	2.76	7 10	00 0	0		1	100	0		100	1 7	0.414	7 100	0			100	1	7 0.4	44 7	100	0		100
ENV-SOP-MTJL-0235 CLADOSPORIUM	3	20	13.6	7 1	00 9	60	21.9	7	100	19 12	7 23.2	7 10	0 10	67	26.4	7 10	00 5	5 33	30.8	7 1	100	9 60 0	5.86	7 100	31 207	12.2	7 100	20	133 7.	47 7	100	16 10	6.7	/3 7	100	13 87	7.57	7 100
ENV-SOP-MTJL-0235 CURVULARIA	0			10	00 0				100	0		10	0 0			10	00 0	0		1	100	1 7 0.	801	7 100	0		100	1	7 0.3	93 7	100	1	7 0.4	44 7	100	1 7	0.609	7 100
ENV-SOP-MTJL-0235 EPICOCCUM	0			10	00 0				100	0		10	0 0			10	00 0	0		1	100	0		100	0		100	1	7 0.3	93 7	100	0			100	0		100
ENV-SOP-MTJL-0235 NIGROSPORA	0			10	00 0				100	0		10	0 0			10	00 0	0		1	100	0		100	0		100	1	7 0.3	93 7	100	0			100	0		100
ENV-SOP-MTJL-0235 PENICILLIUM/ASPERGILLUS	9	60	40.8	7 1	00 3	20	7.3	7	100	13 8	7 15.9	7 10	0 3	20	7.87	7 10	00 0	0		1	100	46 307	35.1	7 100	12 80	4.73	7 100	13	87 4.	89 7	100	12 8	0 5.0	J3 7	100	6 40	3.48	7 100
ENV-SOP-MTJL-0235 SMUTS, MYXOMYCETES, PERICONIA	0			10	00 0				100	1	7 1.28	7 10	0 0			10	00 0	0		1	100	2 13	1.49	7 100	7 47	2.78	7 100	5	33 1.	85 7	100	1	7 0.4	44 7	100	1 7	0.609	7 100
ENV-SOP-MTJL-0235 ZYGOMYCETES	0			10	00 00				100	0		10	0 0			10	0 0	0		1	100	5 33 3	3.78	7 100	1 7	0.414	7 100	0			100	0			100	0		100
ENV-SOP-MTJL-0235 PITHOMYCES	1	7	4.76	7 1	00																	1 7 0.	801	7 100	1 7	0.414	7 100	1	7 0.3	93 7	100	1	7 0.4	44 7	100			
ENV-SOP-MTJL-0235 PESTALOTIOPSIS													1	7	2.76	7 10	00																					
ENV-SOP-MTJL-0235 PYRICULARIA																	1	1 7	6.54	7 1	100																	
ENV-SOP-MTJL-0235 TOTAL		147				274				54	7			254				107				874			1690				1780			159	0			1150		

ccount: ERRMMOLD SDG: L1385026 Matrices: Mold											
Lab Sample ID	L1385026-11	L1385026-12	L1385026-13	L1385026-14	L1385026-15	L1385026-16	L1385026-17	L1385026-18	L1385026-19	L1385026-20	
Client Sample ID	A1-S1	A1-S2	A1-S3	A1-S4	A1-S5	A2-S1	A2-S2	A2-S3	A2-S4	A2-S5	
Date Collected	07/29/2021	07/29/2021	07/29/2021	07/29/2021	07/29/2021	07/29/2021	07/29/2021	07/29/2021	07/29/2021	07/29/2021	
Location	Area 1-10-0min	Area 1-10-10min	Area 1-10-20min	Area 1-10-30min	Area 1-10-40min	Area 2-10-0min	Area 2-10-10min	Area 2-10-20min	Area 2-10-30min	Area 2-10-40min	
Medium Used	MEA	MEA	MEA	MEA	MEA	MEA	MEA	MEA	MEA	MEA	
Volume Used		283	283 2	83 283	3 283	3 283	283	3 28	3 283	283	
Volume Used Units	1	1	1	1	1	1	1	1	1	1	
PHCC Filter		400	400 44	00 400	0 400	400	400	0 40	ð 400	400	
Method Analyte	Raw Count Result AS	Qualifier Raw Count Result AS Qua	fier Raw Count Result AS Qualif	ier Raw Count Result AS Qualifie	er Raw Count Result AS Qualifie	r Raw Count Result AS Qualifier	Raw Count Result AS Qualifie	er Raw Count Result AS Qualifi	er Raw Count Result AS Qualifie	Raw Count Result AS Qualifier	
ENV-SOP-MTJL-0236 ACREMONIUM											
ENV-SOP-MTJL-0236 ALTERNARIA											
ENV-SOP-MTJL-0236 ASPERGILLUS FLAVUS											
ENV-SOP-MTJL-0236 ASPERGILLUS FUMIGATUS											
ENV-SOP-MTJL-0236 ASPERGILLUS GLAUCUS											
ENV-SOP-MTJL-0236 ASPERGILLUS NIDULANS											
ENV-SOP-MTJL-0236 ASPERGILLUS NIGER											
ENV-SOP-MTJL-0236 ASPERGILLUS OCHRACEUS											
ENV-SOP-MTJL-0236 ASPERGILLUS SYDOWII											
ENV-SOP-MTJL-0236 ASPERGILLUS VERSICOLOR											
ENV-SOP-MTJL-0236 AUREOBASIDIUM											
ENV-SOP-MTJL-0236 BASIDIOMYCETES											
ENV-SOP-MTJL-0236 BIPOLARIS/DRECHSLERA											
ENV-SOP-MTJL-0236 BOTRYTIS											
ENV-SOP-MTJL-0236 CHAETOMIUM											
ENV-SOP-MTJL-0236 CLADOSPORIUM		9 32 4			13 47 4		1 4 4	37 137 4	39 145 4	2 7 4	
ENV-SOP-MTJL-0236 CURVULARIA											
ENV-SOP-MTJL-0236 EPICOCCUM											
ENV-SOP-MTJL-0236 FUSARIUM											
ENV-SOP-MTJL-0236 MUCOR											
ENV-SOP-MTJL-0236 NON-SPORULATING FUNGI		1 4 4		1 4 4	2 7 4		1 4 4	5 18 4	6 21 4	1 4 4	
ENV-SOP-MTJL-0236 PAECILOMYCES											
ENV-SOP-MTJL-0236 PENICILLIUM		1 4 4			2 7 4			12 43 4	10 36 4		
ENV-SOP-MTJL-0236 PHOMA/COELOMYCETES											
ENV-SOP-MTJL-0236 RHIZOPUS											
ENV-SOP-MTJL-0236 STACHYBOTRYS CHARTARU	M										
ENV-SOP-MTJL-0236 ULOCLADIUM											
ENV-SOP-MTJL-0236 YEASTS	283 1740	4 2 7 4	48 181 4	32 118 4	44 165 4	49 184 4	41 153 4	5 18 4	48 181 4	49 184 4	
ENV-SOP-MTJL-0236 FUSARIUM-LIKE	1 1 1									1 4 4	
ENV-SOP-MTJL-0236 TOTAL	1740	47	181	122	226	184	161	216	383	199	

Lab Sample ID		L1385026-	21			L1385026-2	22			L1385026-	23			L1385026-2	24			L1385026-25			L1385026-26					
Client Sample ID		A1-S1				A1-S3				A1-S5				A2-S1				A2-S3				A2-S5				
Date Collected		07/29/2021				07/29/2021				07/29/2021				07/29/2021				07/29/2021				07/29/2021				
Location		Area 1-10-0	Omin			Area 1-10-2	20min			Area 1-10-4	40min			Area 2-10-0)min			Area 2-10-2	20min			Area 2-10-4	0min			
Medium Used		TSA				TSA				TSA				TSA				TSA				TSA				
Volume Used					283				283				283				283				283	283				
Volume Used Units		1				1				1				1				1	1			1				
PHCC Filter					400				400				400				400				400	400				
Method An	alyte	Raw Count	Result	AS	Qualifier	Raw Count	Result	AS	Qualifier	Raw Count	Result	AS	Qualifier	Raw Count	Result	AS	Qualifier	Raw Count	Result	AS	Qualifier	Raw Count	Result	AS	Qualifier	
ENV-SOP-MTJL-0249 AC	CTINOMYCETE																					1	4	4		
ENV-SOP-MTJL-0249 BA	ACILLUS SPP.																									
ENV-SOP-MTJL-0249 CO	DRYNEFORMS																									
ENV-SOP-MTJL-0249 GR	RAM NEGATIVE BACILLI																									
ENV-SOP-MTJL-0249 GR	RAM NEGATIVE BACILLI-TYPE I					3	11	4						1	4	4										
ENV-SOP-MTJL-0249 GR	RAM NEGATIVE BACILLI-TYPE II	[5	18	4														2	7	4		
ENV-SOP-MTJL-0249 GN	NB COLIFORM																									
ENV-SOP-MTJL-0249 GN	NB NON-COLIFORM																									
ENV-SOP-MTJL-0249 GN	NB NON-COLIFORM-TYPE I																									
ENV-SOP-MTJL-0249 GN	NB NON-COLIFORM-TYPE II																									
ENV-SOP-MTJL-0249 GR	RAM POSITIVE BACILLI																									
ENV-SOP-MTJL-0249 GR	RAM POSITIVE BACILLI-TYPE I					1	4	4																		
ENV-SOP-MTJL-0249 GR	RAM POSITIVE BACILLI-TYPE II																									
ENV-SOP-MTJL-0249 GR	RAM POSITVE COCCI																									
ENV-SOP-MTJL-0249 GR	RAM POSITIVE COCCI-TYPE I	94	379	4		11	- 39	4		30	110	4		356	3120	4		39	145	4		13	47	4		
ENV-SOP-MTJL-0249 GR	RAM POSITIVE COCCI-TYPE II	1	4	4						10	36	4										1	4	4		
ENV-SOP-MTJL-0249 MI	ICROCOCCUS SPP.																									
ENV-SOP-MTJL-0249 ST.	APHYLOCOCCUS SPP.																									
ENV-SOP-MTJL-0249 ST	REP / ENTEROCOCCUS																									
ENV-SOP-MTJL-0249 GR	RAM NEGATIVE COCCI					4	14	4														3	11	4		
ENV-SOP-MTJL-0249 YE	EAST																									
ENV-SOP-MTJL-0249 GR	RAM POSITIVE COCCI TYPE III	2	7	4																						
ENV-SOP-MTJL-0249 GR	RAM POSITIVE COCCI TYPE IV									12	43	4						1	4	4						
ENV-SOP-MTJL-0249 GR	RAM POSITIVE COCCI TYPE V									1	4	4														
ENV-SOP-MTJL-0249 GR	RAM NEGATIVE BACILLI TYPE II	I												1	4	4										
ENV-SOP-MTJL-0249 GR	RAM NEGATIVE BACILLI TYPE IV	V												1	4	4								, T		
ENV-SOP-MTJL-0249 GR	RAM POSITIVE COCCI III																	1	4	4						
ENV-SOP-MTJL-0249 TO	DTAL		390				86				193				3130				153				73			

APPENDIX B

RAW LABORATORY



Pace Analytical® ANALYTICAL REPORT

August 09, 2021

ERRM.	LLC
,	

Report To:

Sample Delivery Group: Samples Received: Project Number: Site:

L1385026 07/31/2021 LIMESTONE HEALTH 34-214178

Michael J. Kendall, P.G. 7972 Hampton Cove Drive Ooltewah, TN 37363 100789

AIHA-LAP, LLC Cert.#:

Entire Report Reviewed By:

Darren Reeder Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

ACCOUNT: ERRM, LLC

PROJECT: LIMESTONE HEALTH

SDG: L1385026

DATE/TIME: 08/09/21 15:24 PAGE: 1 of 21

Τс Ss Cn Sr GI AI Sc

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	7
Sr: Sample Results	8
A1-S1 L1385026-01	8
A1-S2 L1385026-02	8
A1-S3 L1385026-03	8
A1-S4 L1385026-04	9
A1-S5 L1385026-05	9
A2-S1 L1385026-06	9
A2-S2 L1385026-07	10
A2-S3 L1385026-08	10
A2-S4 L1385026-09	11
A2-S5 L1385026-10	11
A1-S1 L1385026-11	12
A1-S2 L1385026-12	12
A1-S3 L1385026-13	12
A1-S4 L1385026-14	13
A1-S5 L1385026-15	13
A2-S1 L1385026-16	13
A2-S2 L1385026-17	14
A2-S3 L1385026-18	14
A2-S4 L1385026-19	14
A2-S5 L1385026-20	15
A1-S1 L1385026-21	15
A1-S3 L1385026-22	15
A1-S5 L1385026-23	16
A2-S1 L1385026-24	16
A2-S3 L1385026-25	16
A2-S5 L1385026-26	17
GI: Glossary of Terms	18
Al: Accreditations & Locations	19
Sc: Chain of Custody	20



A1-S1 L1385026-01 Mold		Collected by Mike Kendall	Collected date/time 07/29/2114:32	Received da 07/31/21 09:*	te/time I5
Method	Batch	Preparation date/time	Analysis date/time	Analyst	Location
Method ENV-SOP-MTJL-0235	WG1717995	08/05/21 10:59	08/05/21 10:59	BPS	Mt. Juliet, TN
A1-S2 L1385026-02 Mold		Collected by Mike Kendall	Collected date/time 07/29/2116:44	Received da 07/31/21 09:*	te/time 15
Method	Batch	Preparation date/time	Analysis date/time	Analyst	Location
Method ENV-SOP-MTJL-0235	WG1717995	08/05/21 10:59	08/05/21 10:59	BPS	Mt. Juliet, TN
A1-S3 L1385026-03 Mold		Collected by Mike Kendall	Collected date/time 07/29/2116:56	Received da 07/31/21 09:'	te/time 15
Method	Batch	Preparation date/time	Analysis date/time	Analyst	Location
Method ENV-SOP-MTJL-0235	WG1717995	08/05/21 10:59	08/05/21 10:59	BPS	Mt. Juliet, TN
A1-S4 L1385026-04 Mold		Collected by Mike Kendall	Collected date/time 07/29/21 17:12	Received da 07/31/21 09:*	te/time 15
Method	Batch	Preparation	Analysis	Analyst	Location
Method ENV-SOP-MTJL-0235	WG1717995	08/05/2110:59	08/05/21 10:59	BPS	Mt. Juliet, TN
A1-S5 L1385026-05 Mold		Collected by Mike Kendall	Collected date/time 07/29/2117:24	Received da 07/31/21 09:	te/time 15
Method	Batch	Preparation	Analysis date/time	Analyst	Location
Method ENV-SOP-MTJL-0235	WG1717995	08/05/21 10:59	08/05/21 10:59	BPS	Mt. Juliet, TN
A2-S1 L1385026-06 Mold		Collected by Mike Kendall	Collected date/time 07/29/21 14:56	Received da 07/31/21 09:*	te/time 15
Method	Batch	Preparation date/time	Analysis date/time	Analyst	Location
Method ENV-SOP-MTJL-0235	WG1717995	08/05/2110:59	08/05/21 10:59	BPS	Mt. Juliet, TN
A2-S2 L1385026-07 Mold		Collected by Mike Kendall	Collected date/time 07/29/21 17:45	Received da 07/31/21 09:*	te/time 15
Method	Batch	Preparation	Analysis date/time	Analyst	Location
Method ENV-SOP-MTJL-0235	WG1717995	08/05/21 10:59	08/05/21 10:59	BPS	Mt. Juliet, TN
A2-S3 L1385026-08 Mold		Collected by Mike Kendall	Collected date/time 07/29/21 17:58	Received da 07/31/21 09:*	te/time 15
Method	Batch	Preparation date/time	Analysis date/time	Analyst	Location
Method ENV-SOP-MTJL-0235	WG1717995	08/05/2110:59	08/05/21 10:59	BPS	Mt. Juliet, TN



DATE/TIME: 08/09/2115:24

A2-S4 L1385026-09 Mold		Collected by Mike Kendall	Collected date/time 07/29/21 00:00	Received da 07/31/21 09:1	te/time 5
Method	Batch	Preparation date/time	Analysis date/time	Analyst	Location
Method ENV-SOP-MTJL-0235	WG1717995	08/05/21 10:59	08/05/21 10:59	BPS	Mt. Juliet, TN
A2-S5 L1385026-10 Mold		Collected by Mike Kendall	Collected date/time 07/29/21 00:00	Received da 07/31/21 09:1	te/time 5
Method	Batch	Preparation date/time	Analysis date/time	Analyst	Location
Method ENV-SOP-MTJL-0235	WG1717995	08/05/21 10:59	08/05/21 10:59	BPS	Mt. Juliet, TN
A1-S1 L1385026-11 Mold		Collected by Mike Kendall	Collected date/time 07/29/21 14:32	Received da 07/31/21 09:1	te/time 15
Method	Batch	Preparation date/time	Analysis date/time	Analyst	Location
Method ENV-SOP-MTJL-0236	WG1718978	08/06/21 15:49	08/06/21 15:49	BPS	Mt. Juliet, TN
A1-S2 L1385026-12 Mold		Collected by Mike Kendall	Collected date/time 07/29/2116:44	Received da 07/31/21 09:1	te/time 15
Method	Batch	Preparation	Analysis	Analyst	Location
Method ENV-SOP-MTJL-0236	WG1718978	08/06/21 15:49	08/06/21 15:49	BPS	Mt. Juliet, TN
A1-S3 L1385026-13 Mold		Collected by Mike Kendall	Collected date/time 07/29/2116:56	Received da 07/31/21 09:1	te/time 5
Method	Batch	Preparation	Analysis date/time	Analyst	Location
Method ENV-SOP-MTJL-0236	WG1718978	08/06/21 15:49	08/06/21 15:49	BPS	Mt. Juliet, TN
A1-S4 L1385026-14 Mold		Collected by Mike Kendall	Collected date/time 07/29/21 17:12	Received da 07/31/21 09:1	te/time 15
Method	Batch	Preparation date/time	Analysis date/time	Analyst	Location
Method ENV-SOP-MTJL-0236	WG1718978	08/06/21 15:49	08/06/21 15:49	BPS	Mt. Juliet, TN
A1-S5 L1385026-15 Mold		Collected by Mike Kendall	Collected date/time 07/29/21 17:24	Received da 07/31/21 09:1	te/time 15
Method	Batch	Preparation	Analysis date/time	Analyst	Location
Method ENV-SOP-MTJL-0236	WG1718978	08/06/21 15:49	08/06/21 15:49	BPS	Mt. Juliet, TN
A2-S1 L1385026-16 Mold		Collected by Mike Kendall	Collected date/time 07/29/21 14:56	Received da 07/31/21 09:1	te/time 5
Method	Batch	Preparation date/time	Analysis date/time	Analyst	Location
Method ENV-SOP-MTJL-0236	WG1718978	08/06/21 15:49	08/06/21 15:49	BPS	Mt. Juliet, TN



DATE/TIME: 08/09/2115:24

A2-S2 L1385026-17 Mold		Collected by Mike Kendall	Collected date/time 07/29/2117:45	Received date/time 07/31/21 09:15				
Method	Batch	Preparation date/time	Analysis date/time	Analyst	Location			
Method ENV-SOP-MTJL-0236	WG1718978	08/06/2115:49	08/06/21 15:49	BPS	Mt. Juliet, TN			
A2-S3 L1385026-18 Mold		Collected by Mike Kendall	Collected date/time 07/29/21 17:58	Received da 07/31/21 09:*	te/time 5			
Method	Batch	Preparation date/time	Analysis date/time	Analyst	Location			
Method ENV-SOP-MTJL-0236	WG1718978	08/06/21 15:49	08/06/21 15:49	BPS	Mt. Juliet, TN			
A2-S4 L1385026-19 Mold		Collected by Mike Kendall	Collected date/time 07/29/21 00:00	Received da 07/31/21 09:*	te/time 15			
Method	Batch	Preparation date/time	Analysis date/time	Analyst	Location			
Method ENV-SOP-MTJL-0236	WG1718978	08/06/21 15:49	08/06/21 15:49	BPS	Mt. Juliet, TN			
A2-S5 L1385026-20 Mold		Collected by Mike Kendall	Collected date/time 07/29/21 00:00	Received da 07/31/21 09:*	te/time 5			
Method	Batch	Preparation	Analysis	Analyst	Location			
Method ENV-SOP-MTJL-0236	WG1718978	08/06/21 15:49	08/06/21 15:49	BPS	Mt. Juliet, TN			
A1-S1 L1385026-21 Mold		Collected by Mike Kendall	Collected date/time 07/29/2114:32	Received da 07/31/21 09:*	te/time 5			
Method	Batch	Preparation date/time	Analysis date/time	Analyst	Location			
Method ENV-SOP-MTJL-0249	WG1718978	08/09/21 10:30	08/09/21 10:30	CFM	Mt. Juliet, TN			
A1-S3 L1385026-22 Mold		Collected by Mike Kendall	Collected date/time 07/29/2116:56	Received da 07/31/21 09:*	te/time 15			
Method	Batch	Preparation date/time	Analysis date/time	Analyst	Location			
Method ENV-SOP-MTJL-0249	WG1718978	08/09/21 10:30	08/09/21 10:30	CFM	Mt. Juliet, TN			
A1-S5 L1385026-23 Mold		Collected by Mike Kendall	Collected date/time 07/29/21 17:24	Received da 07/31/21 09:*	te/time 5			
Method	Batch	Preparation date/time	Analysis date/time	Analyst	Location			
Method ENV-SOP-MTJL-0249	WG1718978	08/09/2110:30	08/09/21 10:30	CFM	Mt. Juliet, TN			
A2-S1 L1385026-24 Mold		Collected by Mike Kendall	Collected date/time 07/29/2114:56	Received da 07/31/21 09: ⁻	te/time 5			
Method	Batch	Preparation	Analysis date/time	Analyst	Location			
Method ENV-SOP-MTJL-0249	WG1718978	08/09/2110:30	08/09/2110:30	CFM	Mt. Juliet, TN			



		Collected by	Collected date/time	Received date/time				
A2-S3 L1385026-25 Mold		Mike Kendall	07/29/21 17:58	07/31/21 09:1	15			
Method	Batch	Preparation	Analysis	Analyst	Location			
		date/time	date/time					
Method ENV-SOP-MTJL-0249	WG1718978	08/09/2110:30	08/09/21 10:30	CFM	Mt. Juliet, TN			
		Collected by	Collected date/time	Received da	te/time			
A2-S5 L1385026-26 Mold		Mike Kendall	07/29/21 00:00	07/31/21 09:1	15			
Method	Batch	Preparation	Analysis	Analyst	Location			
		date/time	date/time					
Method ENV-SOP-MTJL-0249	WG1718978	08/09/21 10:30	08/09/21 10:30	CFM	Mt. Juliet, TN			

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Darren Reeder Project Manager

Project Narrative

Bacterial Andersen Quantification

Blank corrections have been applied.

Particle hole correction chart used for all calculations; table and/or formula available upon request.

The calculation is based on the air volume and conversion factor to convert CFU/sample to CFU/m3.

Fungal Andersen Quantification

Blank corrections have not been applied.

Particle hole correction chart used for all calculations; table and/or formula available upon request.

The calculation is based on the air volume and conversion factor to convert CFU/sample to CFU/m3.

Non-Viable (Spore Trap) Mold Quantification

Blank corrections have not been applied.

Background debris is an indication of amount of non-fungal biological particulate matter present on the sample and is characterized as very light, light, moderate, heavy or very heavy. Heavy background debris may reduce readability so that spore counts should be considered minimal.

The calculation is based on the air volume and percent of slide read.

Background De	bris Rating
Very light	< 5 %
Light	5 – 10 %
Moderate	10 – 25 %
Heavy	25 – 75 %
Very heavy	75 % +

								HI-00	A1_53		Client ID	Method E	Collected da	A1-S3							A1-S2		Client ID	Method E	Collected da	A1-S2								A1-S1		Client ID	Method E	A1-S1 Collected da
ACCOUN ERRM, LL								L1303070-03	11385036-03		Lab Sample ID	ENV-SOP-MTJL	ite/time: 07/29/21								L1385026-02		Lab Sample ID	ENV-SOP-MTJL	ite/time: 07/29/21 /									L1385026-01		Lab Sample ID	ENV-SOP-MTJL	nte/time: 07/29/21 .
C II								Aled 1-10-2011111	Area 1-10-20min		Location	-0235	96:91								Area 1-10-10min		Location	-0235	16:44									Area 1-10-0min		Location	0235	14:32
								00/00/2021 10.39	08/05/2021 10-59	date/time	Analyzed										08/05/2021 10:59	date/time	Analyzed											08/05/2021 10:59	date/time	Analyzed		
PROJECT: LIMESTONE HEALTH	Total	Sitiuts, wyxottiycetes, Pericottic	Pehicililum/Aspergillus	Cladosporium Dopicillium/Apporaillum		Basidioenores		Packaround Dobric*	Volume/litere)	Analyte				SAM	Total	Penicillium/Aspergillus	Cladosporium	Basidiospores	Ascospores	Background Debris*	Volume(liters)	Analyte				SAM		Total	Pithomyces	Penicillium/Aspergillus	Cladosporium	Basidiospores	Background Debris*	Volume(liters)	Analyte			SAN
		-	، ت	t 2	5 4	D C	r r	LOOM	150		Raw Count		L1382076	PLE RESUL		ω	9	28	1	Heavy	150		Raw Count		L1385026	PLE RESUL			1	9	ω	9	Heavy	150		Raw Count		IPLE RESUI
SDG: L1385026	547		78/	127	202	202	2 '	,		Spores/m3	Result			-TS - 03	274	20	60	187	7	ı		Spores/m3	Result			-TS - 02		147	7	60	20	60	I	ı	Spores/m3	Result		LTS - 01
		1.28	10.9	15 O	JJ.0	536	000		č	%	Percent of Total					7.30	21.9	68.2	2.55			%	Percent of Total						4.76	40.8	13.6	40.8			%	Percent of Total		
DATE/TII 08/09/21		-	- ٢	- 1		7	- 1	,		Spores/m3	AS					7	7	7	7	ı		Spores/m3	AS						7	7	7	7	I	ı	Spores/m3	AS		
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								A2-S1		Client ID	Method I	Collected di	2						A1-S5		Client ID	Method I	Collected di	A1-S5										A1-S4		Client ID	Method I	Collected di	N1_SA
ACCOUN ERRM, LI								L1385026-06		Lab Sample ID	ENV-SOP-MTJI	ate/time: 07/29/21							L1385026-05		Lab Sample ID	ENV-SOP-MTJI	ate/time: 07/29/21											L1385026-04		Lab Sample ID	ENV-SOP-MTJI	ate/time: 07/29/21	
γ								Area 2-10-0min		Location	-0235	14:56							Area 1-10-40min		Location	0235	17:24											Area 1-10-30min		Location	0235	17:12	
								08/05/2021 10:59	date/time	Analyzed									08/05/2021 10:59	date/time	Analyzed													08/05/2021 10:59	date/time	Analyzed			
PROJECT: LIMESTONE HEALTH	zygomycetes	Smuts,Myxomycetes,Periconia	Penicililum/Aspergillus		Cladosporium	Basidiospores		Volume(liters) Background Dabrie*	Analyte					Total	Pyricularia	Cladosporium	Basidiospores	Background Debris*	Volume(liters)	Analyte				SAMP		Total	Pestalotiopsis	Penicillium/Asperaillus	Cladosporium	Bipolaris/Drechslera	Basidiospores	Ascospores	Background Debris*	Volume(liters)	Analyte				
	σ	I N	9 46	<u> </u>	• ب	6/	ricuvy C7	150 Heavy		Raw Count			- - - - -		_	б	10	Heavy	150		Raw Count		L1385026	LE RESUL				ω	10		21	2	Heavy	150		Raw Count			
SDG: L1385026	33	3 13	307	1	- 60	44/			Spores/m3	Result				107	7	33	67			Spores/m3	Result			_TS - 05		254	7	20	67	7	140	13			Spores/m3	Result		- - - - - - - - - - - - - - - - - - -	TC DA
	3.78	1.49	35.1	0.801	6.86	51.1	2		%	Percent of Total					6.54	30.8	62.6			%	Percent of Total						2.76	7.87	26.4	2.76	55.1	5.12			%	Percent of Total			
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		100	7	0.393	7	_	Pithomyces				
		100	7	1.85	33	5	Smuts,Myxomycetes,Periconia				
		100	7	4.89	87	13	Penicillium/Aspergillus				
		100	7	0.393	7	_	Nigrospora				
		100	7	0.393	7	_	Epicoccum				
		100	7	0.393	7	-1	Curvularia				
		100	7	7.47	133	20	Cladosporium				
		100	7	81.5	1450	217	Basidiospores				
		100	7	2.64	47	7	Ascospores				
			1			Heavy	Background Debris*				
			1			150	Volume(liters)	08/05/2021 10:59	Area 2-10-20min	L1385026-08	A2-S3
		%	Spores/m3	%	Spores/m3		Analyte	date/time			
	Qualifier	Percent of Slide Read	AS	Percent of Total	Result	Raw Count		Analyzed	Location	Lab Sample ID	Client ID
									-0235	ENV-SOP-MTJL	Method E
						L1385026			17:58	ite/time: 07/29/21	Collected da
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					1690		lotal				
		100	7	0.414	7	_	Pithomyces				
		100		0.414			Zygomycetes				
		100	7	2.78	47	7	Smuts, Myxomycetes, Periconia				
		100	7	4.73	08	12	Penicillium/Aspergillus				
		100		12.2	20/	<u>अ</u>	Cladosporium				
Sc		100	- 1	0.414	- /	2	Bipolaris/Drechslera				
œ		100	7	77.5	1310	197	Basidiospores				
]		100	7	1.60	27	4	Ascospores				
7			1			Heavy	Background Debris*				
			ı		ı	150	Volume(liters)	08/05/2021 10:59	Area 2-10-10min	L1385026-07	A2-S2
ے م		%	Spores/m3	%	Spores/m3		Analyte	date/time			
<u>(</u>	Qualifier	Percent of Slide Read	AS	Percent of Total	Result	Raw Count		Analyzed	Location	Lab Sample ID	Client ID
л Л									-0235	ENV-SOP-MTJL	Method E
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0		100	7	0.801	7	_	Pithomyces				
2		%	Spores/m3	%	Spores/m3		Analyte	date/time			
Ср	Qualifier	Percent of Slide Read	AS	Percent of Total	Result	Raw Count		Analyzed	Location	Lab Sample ID	Client ID
_									-0235	ENV-SOP-MTJL	Method E
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LIMESTONE HEALTH

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SAMPLE RESULTS - 08 Nor-Sony Trial Anigon Ani		A2-S5 collected dat Method E1 Client ID	A2 54	Cilent ID Method El Cilent ID A2-S4 collected dat Method El Cilent ID
		e/time: 07/29/21 VV-SOP-MTJ Lab Sample ID	L1385026-09	e/time: 07/29/21 VV-SOP-MTJ Lab Sample ID s/time: 07/29/21 VV-SOP-MTJ Lab Sample ID
		00:00 L-O235 Location	Area 2-10-30min	17:58 L-0235 Location 00:00 L-0235 L-0235 Location
SAMPLE RESULTS - 08 Recent of 100 Recent of 101 Re		Analyzed date/lime	08/05/2021 10:59	Analyzed date/time Analyzed date/time
LLE RESULTS - 08 Perent of Total Spores/m3 As Spores/m3 Perent of Total Spores/m3 As Spores/m3 Perent of Side Spores/m3 Perent of Side Spores/m3	Background Debris* Basidiospores Cladosporium Curvularia Penicillium/Aspergillus Smuts,Myxomycetes,Periconia Total	Analyte	Volume(liters) Background Debris* Ascospores Basidiospores Bipolaris/Drechslera Cladosporium Curvularia Penicillium/Aspergillus Smuts,Myxomycetes,Periconia Pithomyces Total	Analyte Total Analyte Analyte
Result Spores/m3Percent of Total %As spores/m3Percent of Silde %Dualifier %TS - O.9Percent of Total %As spores/m3Percent of Silde %As %Percent of Silde %As mercent of S	Heavy 152 6	Raw Count	150 3 202 16 16 1 1 1	LE RESUL Raw Count Raw Count
Percent of Total $\%$ As percent of Sile $\%$ Percent of Sile $\%$ Qualifier $\%$ Percent of Total $\%$ As spores/m3Reard of Sile $\%$ Qualifier $\%$ Percent of Total 6.73 As 7 No 100 1267 100 94.907 100 0.4407 100 0.4407 100 0.4407 100 0.4407 100 0.4407 100 0.4407 100 7 100 89 30 9 7 100 9 7 100 1577 100 7 100 3487 100 36097 100 16097 100 16097 100 16097 100 16097 100 16097 100 17 100 187 100 19 100 <td>- 1010 87 7 40 7 7 1150</td> <td>LTS - 10 Result Spores/m3</td> <td>- 20 1350 7 107 7 80 80 7 7 7 1590</br></br></td> <td>- T S - O X Result Spores/m3 1780 - T S - O 9 Result Spores/m3</td>	- 1010 87 7 40 7 7 1150	LTS - 10 Result Spores/m3	- 20 1350 7 	- T S - O X Result Spores/m3 1780 - T S - O 9 Result Spores/m3
As Spores/m3 Percent of Slide % Qualifier As Spores/m3 Percent of Slide % Qualifier 7 100 % 100	87.8 7.57 0.609 3.48 0.609	Percent of Total	1.26 84.9 0.440 6.73 0.440 5.03 0.440 0.440	Percent of Total
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ACCOUNT: ERRM, LLC

PROJECT: LIMESTONE HEALTH

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DATE/TIME: 08/09/21 15:24

PAGE: 11 of 21

				A1-S3		Client ID	Method E	Collected da	A1-S3								A1-S2		Client ID	Method E	Collected da	A1-S2					A1-S1	Client ID	Method E		A1-S1
				L1385026-13		Lab Sample ID	NV-SOP-MTJ	te/time: 07/29/21									L1385026-12		Lab Sample ID	NV-SOP-MTJ	te/time: 07/29/21						L1385026-11	Lab Sample ID	NV-SOP-MTJ		to/time: 07/20/21
				Area 1-10-20min		Location	L-0236	16:56									Area 1-10-10min		Location	L-0236	16:44						Area 1-10-0min	Location	L-0236	17.04	14.30
				08/06/2021 15:49	date/time	Analyzed											08/06/2021 15:49	date/time	Analvzed								08/06/2021 15:49	Analyzed date/time			
Total	Yeasts	Medium Used	PHCC	Volume(liters)	Analyte					Total	Yeasts	Penicillium	Non-sporulating fu	Cladosporium	Medium Used	PHCC	Volume(liters)	Analyte					Total	Yeasts	Medium Used	PHCC	Volume(liters)	Analyte			
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	48	MEA	400	283		Raw Count		L1385026	RESUL		2	_	_	9	MEA	400	283		Raw Count		L1385026	RESUL		283	MEA	400	283	Raw Count			
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	4			Ţ	CFU/m3	AS					4	4	4	4	ı			CFU/m3	AS					4		ı	I	AS CFU/m3			
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ACCOUNT: ERRM, LLC

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PAGE: 12 of 21

						A2-S1		Client ID	Method E	A2-S1								A1-S5	Client ID	Method E	Collected da	A1-S5							A1-S4		Client ID	Method E	A1-S4 Collected da
ACCOU						L1385026-16		Lab Sample ID	NV-SOP-MTJ	·e/time: 07/29/21								L1385026-15	Lab Sample ID	NV-SOP-MTJ	:e/time: 07/29/21								L1385026-14		Lab Sample ID	NV-SOP-MTJ	.e/time: 07/29/21
NT:						Area 2-10-0min		Location	L-0236	 14:56								Area 1-10-40min	Location	L-0236	17:24								Area 1-10-30min		Location	L-0236	17:12
						08/06/2021 15:49	date/time	Analyzed										08/06/2021 15:49	Analyzed date/time										08/06/2021 15:49	date/time	Analyzed		
PROJECT	lotal	Tetal	Vaacte	Medium Used	PHCC	Volume(liters)	Analyte			(0)	Total	Yeasts	Penicillium	Non-sporulating fungi	Cladosporium	Medium Used	PHCC	Volume(liters)	Analyte			(0)		Total	Yeasts	Non-sporulating fungi	Medium Used	PHCC	Volume(liters)	Analyte			(0)
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LIMESTONE HEALTH

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									A1-S3		Client ID	Method E	Collected da	A1-S3								A1-S1		Client ID	Method E		A1-S1 Collected da									A2-S5		Client ID	Method E	A2-S5 Collected da
ACCOU									L1385026-22	רמט סמוווטופ וט	D olama da l	NV-SOP-MTJ	te/time: 07/29/21									L1385026-21		Lab Sample ID	NV-SOP-MTJ		te/time: 07/29/21									L1385026-20		Lab Sample ID	NV-SOP-MTJ	te/time: 07/29/21
LC T:									Area 1-10-20min	LOCATION	location	L-0249	16:56									Area 1-10-0min		Location	L-0249		14:32									Area 2-10-40min		Location	L-0236	00:00
									08/09/2021 10:30	Anaryzeu date/time	Applying											08/09/2021 10:30	date/time	Analyzed												08/06/2021 15:49	date/time	Analyzed		
PROJECT: LIMESTONE HEALTH	Total	Gram negative cocci	Gram positive cocci-Type I	Gram positive bacilli-Type I	Gram negative bacilli-Type II	Gram negative bacilli-Type I	Medium Used	PHCC	Volume(liters)	Analyte				SAM	Total	Gram Positive Cocci Type III	Gram positive cocci-Type II		Gram positiva conci-Type I	Medium Heed	PHCC	Volume(liters)	Analyte				SAM		Total	Fusarium-like	Yeasts	Non-sporulating fungi	Cladosporium	Medium Used	PHCC	Volume(liters)	Analyte			SAM
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							A2-S3		Client In	A2-S3 Collected da								A2-S1		Client ID	Method E	Collected da	A2-S1									A1-S5		Client ID	Method E	A1-S5 Collected da
ACCOU ERRM, L							L1385026-25	רמא סמוווסוב וא	NV-SOP-MTJ	te/time: 07/29/21								L1385026-24		Lab Sample ID	NV-SOP-MTJ	te/time: 07/29/21										L1385026-23		Lab Sample ID	NV-SOP-MTJ	te/time: 07/29/21
LC NI							Area 2-10-20min		L-0249	17:58								Area 2-10-0min		Location	L-0249	14:56										Area 1-10-40min		Location	L-0249	17:24
							08/09/2021 10:30	date/time	Applyzod									08/09/2021 10:30	date/time	Analyzed												08/09/2021 10:30	date/time	Analyzed		
PROJECT: LIMESTONE HEALTH		онант розниче сосст турети Тотаl	Gram Positive Cocci III	Gram positive cocci-Type I	Medium Used	PHCC	Volume(liters)	Analyte		SAMPI	Total	Gram Negative Bacilli Type IV	Gram Negative Bacilli Type III	Gram positive cocci-Type I	Gram negative bacilli-Type I	Medium Used	PHCC	Volume(liters)	Analyte				SAMPI		Total	Gram Positive Cocci Type V	Gram positive cocci Type IV	Gram positive cocci-Type II	Gram positive cocci-Type I	Medium Used	PHCC	Volume(liters)	Analyte			SAMPI
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PAGE: 16 of 21																		[Sc	0	Ä	7	G	D	N	1	(4 C][SS	υ.	- C	2TC	-	1 Cp	

Collected date/time: 07/29/21 00:00

SAMPLE RESULTS T 26

Method ENV-SOP-MTJL-0249

Method EN	VV-SOP-MTJL	-0249							
Client ID	Lab Sample ID	Location	Analvzed		Raw Count	Result	AS	Qualifier	-
			date/time	Analyte		CFU/m3	CFU/m3		2 + _
A2-S5	L1385026-26	Area 2-10-40min	08/09/2021 10:30	Volume(liters)	283	ı	ı		
				PHCC	400	ı			υ
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				Gram negative cocci	ω	=	4		Š
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LIMESTONE HEALTH PROJECT:

DATE/TIME: 08/09/21 15:24

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

AS	Analytical Sensitivity - The lowest concertation that can be detected by the method caclulated to reporting limits
CFU	Colony Forming Units.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
Qualifier	Description
	The remainder of this page intentionally left blank, there are no gualifiers applied to this SDG.

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ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee 1 4	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 5	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

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Darren Reeder

From:	Derek Kilday <u><dkilday@geoservicesllc.com></dkilday@geoservicesllc.com></u>
Sent:	Friday, August 06, 2021 4:18 PM
To:	Darren Reeder
Cc:	Jerry Gammon; <u>michael@errmllc.com</u>
Subject:	Projects L1378389 and L1385026
Attachments:	File Release - Mike Kendall.pdf

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe. Darren,

Please find the attached letter outlining our desire to release the results and subsequent invoicing for the projects detailed above to Mike and ERRM.

Let me start by saying we greatly appreciate you protecting GEOS interests in this manner. That being said we have agreed to release the results for these two projects to Mike.

Let me know if you need anything else from us on this project.

Thanks,

DEREK K. KILDAY, P.E. V.P. – CHATTANOOGA AREA MANAGER



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