

Room	Dates/Observations
A122	<p>9/17/19: Initial assessment. Some ceiling tiles along window have been removed, exposing ceiling cavity. Insulation still in place in northeast corner. Suspect visible fungal growth on some of this insulation. Water staining on ceiling tiles throughout room. Wet moisture readings at water stained ceiling tiles at east section and northwest sections of room.</p> <p>9/18/19 – Microbial air sampling conducted in this room, in the afternoon. Results did not indicate elevated fungal spore levels.</p> <p>9/19/19 – Microbial air sampling conducted in this room, in the morning. Results indicated elevated <i>Penicillium/Aspergillus</i> levels (1,200 Count/m3).</p> <p>10/1/19: Additional water leak occurred in the northwest corner of the room. Wet moisture readings on carpet in NW corner. Dehumidifier installed. TRC pulled tarp back so wet carpet could be dried by dehumidifier.</p>

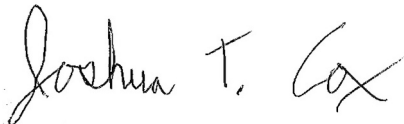
Room	Dates/Observations
A122	<p>10/07/19: No musty odor. Approximately 78 SF ceiling tiles and insulation above removed from east portion of room. Approximately 212 SF of ceiling tiles and ceiling insulation removed from north section of room. All other materials intact, including carpet with water staining. Observed suspect fungal growth on one wood framing support beam at east side of room. SERVPRO wire brushed and HEPA vacuumed this portion of wood at ceiling with HEPA air filtration device directly underneath until visual clearance was received. Since carpet in NE corner was dried in place, wait to visually clear subfloor under carpet until ceiling tiles are pulled from LL10 Music Room in basement below. Air clearance failure due to <i>Penicillium/Aspergillus</i> levels (2,500 Count/m3).</p> <p>10/9/19: TRC onsite to look for hidden fungal impact in NE corner behind carpet and cabinetry, no impact found. New water staining observed on ceiling tiles in SE corner at 5 ceiling tiles, with wet readings. SERVPRO to remediate and re-clean.</p> <p>10/10/19: In NE corner, carpet pulled back and cabinetry removed from wall to allow visual inspection behind cabinetry and inside wall cavity. Dry moisture readings at wood framing behind cabinetry and flooring. Additional 5 ceiling tiles removed from SE corner. Dry readings at ceiling cavity in SE corner. No visible fungal growth in either location.</p> <p>10/15/19 (Microbial Air Sample Collected 10/14/19): No musty odor, dry moisture readings, no visible fungal growth. No additional removal in this room. Ceiling cavity is currently covered by plastic and was previously visually cleared. Microbial air clearance received.</p> <p>No asbestos containing materials removed in this room.</p>

Report for:

Ms. Victoria Shepersky
TRC Solutions, Inc.
4105 SE International Way, Suite 505
Milwaukie, OR 97222

Regarding: Project: 362890 West Tualatin ES
EML ID: 2256569

Approved by:



Operations Manager
Joshua Cox

Dates of Analysis:

Spore trap analysis: 09-19-2019

Service SOPs: Spore trap analysis (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #102297

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received. Sample air volume is supplied by the client.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins EMLab P&K's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Client: TRC Solutions, Inc.
 C/O: Ms. Victoria Shepersky
 Re: 362890 West Tualatin ES

Date of Sampling: 09-18-2019
 Date of Receipt: 09-19-2019
 Date of Report: 09-19-2019

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	28956406: Outside Air N @ Gym & Main Bldg				28956442: Principal's Office				28956403: Gym South Portion				28956463: Gym North Portion			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	10729973-1				10729974-1				10729975-1				10729976-1			
Analysis Date:	09/19/2019				09/19/2019				09/19/2019				09/19/2019			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	1+				3+				4+				4+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments					1	13	13	n/a	2	27	13	n/a	7	93	13	n/a
Pollen																
§ TOTAL FUNGAL SPORES	109	5,400	n/a	100	2	27	n/a	100	18	240	n/a	100	28	370	n/a	100
Alternaria																
Ascospores	34	450	13	8					3	40	13	17				
Basidiospores	42	4,500	110	83					3	40	13	17	4	53	13	14
Botrytis	1	13	13	< 1												
Cercospora																
Chaetomium																
Cladosporium	25	330	13	6	1	13	13	50	6	80	13	33	12	160	13	43
Epicoccum																
Other brown													1	13	13	4
Penicillium/Aspergillus types	5	67	13	1	1	13	13	50	5	67	13	28	9	120	13	32
Smuts, Periconia, Myxomycetes	2	27	13	< 1					1	13	13	6	2	27	13	7
Stachybotrys																

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity/limit of detection is the Count/m³ divided by the raw count, expressed in Count/m³.

*The detection limit/limit of detection (DL) per cubic meter (m³) has been rounded to two significant figures to reflect analytical precision.

††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

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Date of Sampling: 09-18-2019
 Date of Receipt: 09-19-2019
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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	28956428: Stage				28956426: A100				28956429: A102				28956421: Main Corridor N @ A102			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	10729977-1				10729978-1				10729979-1				10729980-1			
Analysis Date:	09/19/2019				09/19/2019				09/19/2019				09/19/2019			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	4+				4+				4+				4+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments	3	40	13	n/a	10	130	13	n/a	13	170	13	n/a	10	130	13	n/a
Pollen									1	13	13	n/a				
§ TOTAL FUNGAL SPORES	36	480	n/a	100	50	670	n/a	100	93	1,200	n/a	100	66	880	n/a	100
Alternaria					3	40	13	6								
Ascospores	2	27	13	6					1	13	13	1	3	40	13	5
Basidiospores	8	110	13	22	6	80	13	12	3	40	13	3	5	67	13	8
Botrytis																
Chaetomium																
Cladosporium	13	170	13	36	21	280	13	42	53	710	13	57	36	480	13	55
Epicoccum	1	13	13	3												
Other brown									3	40	13	3				
Penicillium/Aspergillus types	12	160	13	33	17	230	13	34	28	370	13	30	17	230	13	26
Pithomyces					1	13	13	2	1	13	13	1				
Rusts									1	13	13	1				
Smuts, Periconia, Myxomycetes					2	27	13	4	3	40	13	3	5	67	13	8
Stachybotrys																

Comments:

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 Re: 362890 West Tualatin ES

Date of Sampling: 09-18-2019
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 Date of Report: 09-19-2019

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	28956420: A104				28956469: A106				28956468: A108				28956720: Main Corridor Center @ Library			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	10729981-1				10729982-1				10729983-1				10729984-1			
Analysis Date:	09/19/2019				09/19/2019				09/19/2019				09/19/2019			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	3+				4+				3+				4+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments	3	40	13	n/a	8	110	13	n/a	2	27	13	n/a	6	80	13	n/a
Pollen																
§ TOTAL FUNGAL SPORES	19	250	n/a	100	43	570	n/a	100	19	250	n/a	100	51	680	n/a	100
Alternaria																
Ascospores					2	27	13	5	1	13	13	5				
Basidiospores	2	27	13	11	2	27	13	5	2	27	13	11	5	67	13	10
Botrytis	1	13	13	5												
Cercospora																
Chaetomium																
Cladosporium	8	110	13	42	14	190	13	33	8	110	13	42	27	360	13	53
Epicoccum																
Other brown	1	13	13	5	1	13	13	2					1	13	13	2
Penicillium/Aspergillus types	7	93	13	37	23	310	13	53	8	110	13	42	17	230	13	33
Smuts, Periconia, Myxomycetes					1	13	13	2					1	13	13	2
Stachybotrys																

Comments:

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Date of Sampling: 09-18-2019
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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	28956443: A110				28956404: A112				28956402: A114				28956444: Main Corridor S @ A116			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	10729985-1				10729986-1				10729987-1				10729988-1			
Analysis Date:	09/19/2019				09/19/2019				09/19/2019				09/19/2019			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	4+				3+				4+				2+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments	12	160	13	n/a	2	27	13	n/a	9	120	13	n/a	2	27	13	n/a
Pollen	1	13	13	n/a												
§ TOTAL FUNGAL SPORES	41	550	n/a	100	31	410	n/a	100	72	960	n/a	100	45	600	n/a	100
Alternaria																
Ascospores					3	40	13	10	1	13	13	1	8	110	13	18
Basidiospores	2	27	13	5	6	80	13	19	10	130	13	14	23	310	13	51
Botrytis																
Cercospora																
Chaetomium																
Cladosporium	25	330	13	61	13	170	13	42	33	440	13	46	7	93	13	16
Epicoccum																
Other brown					1	13	13	3	1	13	13	1	1	13	13	2
Penicillium/Aspergillus types	13	170	13	32	7	93	13	23	23	310	13	32	6	80	13	13
Pithomyces																
Smuts, Periconia, Myxomycetes	1	13	13	2	1	13	13	3	4	53	13	6				
Stachybotrys																

Comments:

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 Re: 362890 West Tualatin ES

Date of Sampling: 09-18-2019
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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	28956447: A116				28956396: A Hall @ A118				28956439: A118				28862359: A120			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	10729989-1				10729990-1				10729991-1				10729992-1			
Analysis Date:	09/19/2019				09/19/2019				09/19/2019				09/19/2019			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	2+				2+				2+				2+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments	4	53	13	n/a	1	13	13	n/a	3	40	13	n/a	1	13	13	n/a
Pollen																
§ TOTAL FUNGAL SPORES	88	1,200	n/a	100	94	1,300	n/a	100	45	600	n/a	100	171	2,300	n/a	100
Alternaria					1	13	13	1								
Ascospores	14	190	13	16	16	210	13	17	7	93	13	16	31	410	13	18
Basidiospores	52	690	13	59	49	650	13	52	13	170	13	29	112	1,500	13	65
Botrytis																
Cercospora																
Chaetomium																
Cladosporium	11	150	13	13	11	150	13	12	4	53	13	9	6	80	13	4
Epicoccum																
Other brown																
Penicillium/Aspergillus types	6	80	13	7	17	230	13	18	20	270	13	44	17	230	13	10
Pithomyces	1	13	13	1									1	13	13	1
Smuts, Periconia, Myxomycetes	4	53	13	5					1	13	13	2	4	53	13	2
Stachybotrys																

Comments:

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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	28956348: A122				28956453: LL10 Music				28956408: Production Rm Off Library				28956709: Tech Rm Off Library			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	10729993-1				10729994-1				10729995-1				10729996-1			
Analysis Date:	09/19/2019				09/19/2019				09/19/2019				09/19/2019			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	2+				2+				2+				1+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments	3	40	13	n/a	2	27	13	n/a								
Pollen																
§ TOTAL FUNGAL SPORES	58	770	n/a	100	26	350	n/a	100	9	120	n/a	100	9	120	n/a	100
Alternaria																
Ascospores	11	150	13	19	3	40	13	12	1	13	13	11				
Basidiospores	33	440	13	57	10	130	13	38	5	67	13	56	7	93	13	78
Botrytis																
Cercospora																
Chaetomium																
Cladosporium	7	93	13	12	1	13	13	4					1	13	13	11
Epicoccum																
Other brown																
Penicillium/Aspergillus types	6	80	13	10	12	160	13	46	3	40	13	33	1	13	13	11
Pithomyces	1	13	13	2												
Rusts																
Stachybotrys																

Comments:

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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	28956414: Library North Portion				28956417: Library South Portion				28956451: Resource Rm Off Library			
Comments (see below)	None				None				None			
Lab ID-Version‡:	10729997-1				10729998-1				10729999-1			
Analysis Date:	09/19/2019				09/19/2019				09/19/2019			
Sample volume (liters)	75				75				75			
Background debris (1-4+)††	2+				2+				2+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments									1	13	13	n/a
Pollen												
§ TOTAL FUNGAL SPORES	11	150	n/a	100	8	110	n/a	100	31	410	n/a	100
Alternaria												
Ascospores	2	27	13	18					1	13	13	3
Basidiospores	4	53	13	36	2	27	13	25	16	210	13	52
Botrytis												
Cercospora												
Chaetomium												
Cladosporium	2	27	13	18	1	13	13	13	2	27	13	6
Epicoccum												
Other brown					2	27	13	25				
Penicillium/Aspergillus types	3	40	13	27	3	40	13	38	12	160	13	39
Pithomyces												
Rusts												
Stachybotrys												

Comments:

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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	28956728: Speech Rm				28956690: Outside Air S @ A114 & A112			
Comments (see below)	None				None			
Lab ID-Version‡:	10730000-1				10730001-1			
Analysis Date:	09/19/2019				09/19/2019			
Sample volume (liters)	75				75			
Background debris (1-4+)††	2+				1+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments	1	13	13	n/a				
Pollen					7	93	13	n/a
§ TOTAL FUNGAL SPORES	19	250	n/a	100	243	26,000	n/a	100
Alternaria								
Ascospores	1	13	13	5	73	970	13	4
Basidiospores	9	120	13	47	136	24,000	180	94
Botrytis								
Cercospora					1	13	13	< 1
Chaetomium								
Cladosporium	7	93	13	37	22	290	13	1
Epicoccum					2	27	13	< 1
Other brown								
Penicillium/Aspergillus types					9	120	13	< 1
Pithomyces								
Smuts, Periconia, Myxomycetes	2	27	13	11				
Stachybotrys								

Comments:

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The analytical sensitivity/limit of detection is the Count/m³ divided by the raw count, expressed in Count/m³.

*The detection limit/limit of detection (DL) per cubic meter (m³) has been rounded to two significant figures to reflect analytical precision.

††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

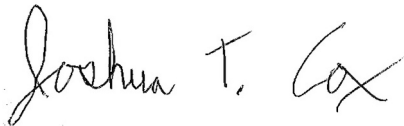
§ Total Fungal Spores has been rounded to two significant figures to reflect analytical precision.

Report for:

Ms. Victoria Shepersky
TRC Solutions, Inc.
4105 SE International Way, Suite 505
Milwaukie, OR 97222

Regarding: Project: 362890 West Tualatin View ES
EML ID: 2257669

Approved by:



Operations Manager
Joshua Cox

Dates of Analysis:

Spore trap analysis: 09-20-2019

Service SOPs: Spore trap analysis (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #102297

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received. Sample air volume is supplied by the client.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins EMLab P&K's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Client: TRC Solutions, Inc.
 C/O: Ms. Victoria Shepersky
 Re: 362890 West Tualatin View ES

Date of Sampling: 09-19-2019
 Date of Receipt: 09-20-2019
 Date of Report: 09-20-2019

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	2895 6704: Outside Air A-112				2895 6437: A-114				2895 6412: A-112				2895 6446: A-116			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	10735902-1				10735903-1				10735904-1				10735905-1			
Analysis Date:	09/20/2019				09/20/2019				09/20/2019				09/20/2019			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	2+				2+				2+				2+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments					3	40	13	n/a					1	13	13	n/a
Pollen					1	13	13	n/a								
§ TOTAL FUNGAL SPORES	336	36,000	n/a	100	10	130	n/a	100	4	53	n/a	100	5	67	n/a	100
Alternaria																
Ascospores	148	2,000	13	5	5	67	13	50	1	13	13	25	1	13	13	20
Basidiospores	124	33,000	270	92	4	53	13	40	1	13	13	25	4	53	13	80
Chaetomium																
Cladosporium	48	640	13	2	1	13	13	10	2	27	13	50				
Epicoccum	1	13	13	< 1												
Penicillium/Aspergillus types	13	170	13	< 1												
Pithomyces																
Rusts																
Smuts, Periconia, Myxomycetes	2	27	13	< 1												
Stachybotrys																
Torula																
Ulocladium																

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity/limit of detection is the Count/m³ divided by the raw count, expressed in Count/m³.

*The detection limit/limit of detection (DL) per cubic meter (m³) has been rounded to two significant figures to reflect analytical precision.

††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Fungal Spores has been rounded to two significant figures to reflect analytical precision.

Client: TRC Solutions, Inc.
 C/O: Ms. Victoria Shepersky
 Re: 362890 West Tualatin View ES

Date of Sampling: 09-19-2019
 Date of Receipt: 09-20-2019
 Date of Report: 09-20-2019

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	2895 6746: A-110				2895 6449: A-118				2895 6331: A-120				2895 6411: Library			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	10735906-1				10735907-1				10735908-1				10735909-1			
Analysis Date:	09/20/2019				09/20/2019				09/20/2019				09/20/2019			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	2+				2+				2+				2+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments	1	13	13	n/a					2	27	13	n/a				
Pollen																
§ TOTAL FUNGAL SPORES	3	40	n/a	100	305	4,100	n/a	100	10	130	n/a	100	2	27	n/a	100
Alternaria																
Ascospores					30	400	13	10	1	13	13	10				
Basidiospores					239	3,200	13	78	8	110	13	80	1	13	13	50
Chaetomium																
Cladosporium					6	80	13	2	1	13	13	10	1	13	13	50
Epicoccum																
Penicillium/Aspergillus types					30	400	13	10								
Pithomyces	2	27	13	67												
Rusts	1	13	13	33												
Smuts, Periconia, Myxomycetes																
Stachybotrys																
Torula																
Ulocladium																

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity/limit of detection is the Count/m³ divided by the raw count, expressed in Count/m³.

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‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Fungal Spores has been rounded to two significant figures to reflect analytical precision.

Client: TRC Solutions, Inc.
 C/O: Ms. Victoria Shepersky
 Re: 362890 West Tualatin View ES

Date of Sampling: 09-19-2019
 Date of Receipt: 09-20-2019
 Date of Report: 09-20-2019

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	2895 6433: Boiler Room				2895 6410: A-122				2895 6425: Outside Air A-122			
Comments (see below)	None				None				None			
Lab ID-Version‡:	10735910-1				10735911-1				10735912-1			
Analysis Date:	09/20/2019				09/20/2019				09/20/2019			
Sample volume (liters)	75				75				75			
Background debris (1-4+)††	2+				2+				2+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments	1	13	13	n/a	2	27	13	n/a				
Pollen												
§ TOTAL FUNGAL SPORES	210	18,000	n/a	100	120	1,600	n/a	100	227	27,000	n/a	100
Alternaria	1	13	13	< 1								
Ascospores	48	640	13	4	9	120	13	8	94	1,300	13	5
Basidiospores	123	16,000	130	93	18	240	13	15	94	25,000	270	93
Chaetomium												
Cladosporium	31	410	13	2	2	27	13	2	30	400	13	1
Epicoccum												
Penicillium/Aspergillus types	7	93	13	1	91	1,200	13	76	4	53	13	< 1
Pithomyces												
Rusts												
Smuts, Periconia, Myxomycetes									5	67	13	< 1
Stachybotrys												
Torula												
Ulocladium												

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity/limit of detection is the Count/m³ divided by the raw count, expressed in Count/m³.

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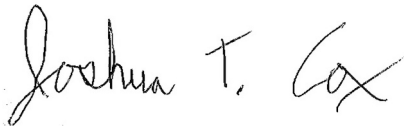
§ Total Fungal Spores has been rounded to two significant figures to reflect analytical precision.

Report for:

Ms. Victoria Shepersky
TRC Solutions, Inc.
4105 SE International Way, Suite 505
Milwaukie, OR 97222

Regarding: Project: 362890 West Tualatin View ES
EML ID: 2270943

Approved by:



Operations Manager
Joshua Cox

Dates of Analysis:

Spore trap analysis: 10-08-2019

Service SOPs: Spore trap analysis (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #102297

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received. Sample air volume is supplied by the client.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

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Client: TRC Solutions, Inc.
 C/O: Ms. Victoria Shepersky
 Re: 362890 West Tualatin View ES

Date of Sampling: 10-07-2019
 Date of Receipt: 10-08-2019
 Date of Report: 10-08-2019

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	29151437: Outside Air NW				29151473: Classroom A100				29151520: Classroom A104				29151515: Classroom A106			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	10797150-1				10797151-1				10797152-1				10797153-1			
Analysis Date:	10/08/2019				10/08/2019				10/08/2019				10/08/2019			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	2+				3+				2+				1+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments																
Pollen	1	13	13	n/a												
§ TOTAL FUNGAL SPORES	218	89,000	n/a	100	88	26,000	n/a	100	232	24,000	n/a	100	129	16,000	n/a	100
Alternaria	1	13	13	< 1												
Ascospores	29	1,500	53	2	12	160	13	1	5	67	13	< 1	9	120	13	1
Basidiospores	164	87,000	530	98	48	26,000	530	98	81	22,000	270	91	116	15,000	130	99
Chaetomium																
Cladosporium	11	150	13	< 1	4	53	13	< 1	18	240	13	1				
Epicoccum	1	13	13	< 1												
Penicillium/Aspergillus types	12	160	13	< 1	24	320	13	1	128	1,700	13	7	4	53	13	< 1
Rusts																
Smuts, Periconia, Myxomycetes																
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity/limit of detection is the Count/m³ divided by the raw count, expressed in Count/m³.

*The detection limit/limit of detection (DL) per cubic meter (m³) has been rounded to two significant figures to reflect analytical precision.

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‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Fungal Spores has been rounded to two significant figures to reflect analytical precision.

Client: TRC Solutions, Inc.
 C/O: Ms. Victoria Shepersky
 Re: 362890 West Tualatin View ES

Date of Sampling: 10-07-2019
 Date of Receipt: 10-08-2019
 Date of Report: 10-08-2019

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	29149547: Classroom A108				29149601: Classroom A122				29149654: Outside Air SW			
Comments (see below)	None				None				None			
Lab ID-Version‡:	10797154-1				10797155-1				10797156-1			
Analysis Date:	10/08/2019				10/08/2019				10/08/2019			
Sample volume (liters)	75				75				75			
Background debris (1-4+)††	2+				4+				1+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments												
Pollen												
§ TOTAL FUNGAL SPORES	157	7,400	n/a	100	110	5,500	n/a	100	199	72,000	n/a	100
Alternaria									1	13	13	< 1
Ascospores	3	40	13	1	4	53	13	1	26	350	13	< 1
Basidiospores	132	7,000	53	95	54	2,900	53	52	134	71,000	530	99
Chaetomium												
Cladosporium	5	67	13	1	5	67	13	1				
Epicoccum												
Penicillium/Aspergillus types	17	230	13	3	47	2,500	53	46	35	470	13	1
Rusts									1	13	13	< 1
Smuts, Periconia, Myxomycetes									2	27	13	< 1
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity/limit of detection is the Count/m³ divided by the raw count, expressed in Count/m³.

*The detection limit/limit of detection (DL) per cubic meter (m³) has been rounded to two significant figures to reflect analytical precision.

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‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

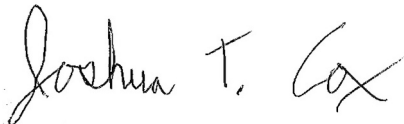
§ Total Fungal Spores has been rounded to two significant figures to reflect analytical precision.

Report for:

Ms. Victoria Shepersky
TRC Solutions, Inc.
4105 SE International Way, Suite 505
Milwaukie, OR 97222

Regarding: Project: 362890; West Tualatin View Elementary
EML ID: 2276023

Approved by:



Operations Manager
Joshua Cox

Dates of Analysis:

Spore trap analysis: 10-15-2019

Service SOPs: Spore trap analysis (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #102297

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received. Sample air volume is supplied by the client.

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Client: TRC Solutions, Inc.
 C/O: Ms. Victoria Shepersky
 Re: 362890; West Tualatin View Elementary

Date of Sampling: 10-14-2019
 Date of Receipt: 10-15-2019
 Date of Report: 10-15-2019

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	2914 9710: Outdoor 1 Near Cafeteria				2914 9812: Main Office				2914 9693: Principals Office				2914 9264: Mail Room			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	10821181-1				10821182-1				10821183-1				10821184-1			
Analysis Date:	10/15/2019				10/15/2019				10/15/2019				10/15/2019			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	3+				3+				3+				4+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments													1	13	13	n/a
Pollen																
§ TOTAL FUNGAL SPORES	65	5,500	n/a	100	4	53	n/a	100	22	290	n/a	100	17	230	n/a	100
Alternaria					1	13	13	25								
Ascospores	13	170	13	3									1	13	13	6
Basidiospores	39	5,200	130	94					10	130	13	45	6	80	13	35
Chaetomium																
Cladosporium	10	130	13	2	2	27	13	50	4	53	13	18	4	53	13	24
Other brown																
Penicillium/Aspergillus types	2	27	13	< 1					8	110	13	36	6	80	13	35
Smuts, Periconia, Myxomycetes	1	13	13	< 1	1	13	13	25								
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																
Zygomycetes																

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity/limit of detection is the Count/m³ divided by the raw count, expressed in Count/m³.

*The detection limit/limit of detection (DL) per cubic meter (m³) has been rounded to two significant figures to reflect analytical precision.

††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Fungal Spores has been rounded to two significant figures to reflect analytical precision.

Client: TRC Solutions, Inc.
 C/O: Ms. Victoria Shepersky
 Re: 362890; West Tualatin View Elementary

Date of Sampling: 10-14-2019
 Date of Receipt: 10-15-2019
 Date of Report: 10-15-2019

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	2915 1532: Health Room				2914 9692: Book Room				2914 9685: Stairwell				2914 9885: A118			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	10821185-1				10821186-1				10821188-1				10821189-1			
Analysis Date:	10/15/2019				10/15/2019				10/15/2019				10/15/2019			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	3+				3+				3+				2+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments																
Pollen					2	27	13	n/a								
§ TOTAL FUNGAL SPORES	12	160	n/a	100	4	53	n/a	100	42	560	n/a	100	43	570	n/a	100
Alternaria																
Ascospores																
Basidiospores	7	93	13	58	1	13	13	25	1	13	13	2	15	200	13	35
Chaetomium																
Cladosporium	2	27	13	17	1	13	13	25	4	53	13	10	4	53	13	9
Other brown																
Penicillium/Aspergillus types	3	40	13	25	2	27	13	50	37	490	13	88	24	320	13	56
Smuts, Periconia, Myxomycetes																
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																
Zygomycetes																

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity/limit of detection is the Count/m³ divided by the raw count, expressed in Count/m³.

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‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Fungal Spores has been rounded to two significant figures to reflect analytical precision.

Client: TRC Solutions, Inc.
 C/O: Ms. Victoria Shepersky
 Re: 362890; West Tualatin View Elementary

Date of Sampling: 10-14-2019
 Date of Receipt: 10-15-2019
 Date of Report: 10-15-2019

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	2914 9899: Library				2914 9881: Rec Room				2914 9900: Staff Room				2914 9731: A120			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	10821190-1				10821191-1				10821192-1				10821193-1			
Analysis Date:	10/15/2019				10/15/2019				10/15/2019				10/15/2019			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	3+				3+				3+				3+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments					1	13	13	n/a								
Pollen																
§ TOTAL FUNGAL SPORES	14	190	n/a	100	11	150	n/a	100	26	350	n/a	100	31	410	n/a	100
Alternaria																
Ascospores	1	13	13	7					2	27	13	8				
Basidiospores	8	110	13	57	7	93	13	64	16	210	13	62	12	160	13	39
Chaetomium																
Cladosporium	2	27	13	14	2	27	13	18	2	27	13	8	5	67	13	16
Other brown									1	13	13	4				
Penicillium/Aspergillus types	3	40	13	21	2	27	13	18	5	67	13	19	14	190	13	45
Smuts, Periconia, Myxomycetes																
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																
Zygomycetes																

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity/limit of detection is the Count/m³ divided by the raw count, expressed in Count/m³.

*The detection limit/limit of detection (DL) per cubic meter (m³) has been rounded to two significant figures to reflect analytical precision.

††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Fungal Spores has been rounded to two significant figures to reflect analytical precision.

Client: TRC Solutions, Inc.
 C/O: Ms. Victoria Shepersky
 Re: 362890; West Tualatin View Elementary

Date of Sampling: 10-14-2019
 Date of Receipt: 10-15-2019
 Date of Report: 10-15-2019

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	2914 9893: A122				2914 9013: A114				2914 9269: Girls RR				2914 9889: Production Room			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	10821194-1				10821195-1				10821196-1				10821197-1			
Analysis Date:	10/15/2019				10/15/2019				10/15/2019				10/15/2019			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	3+				3+				3+				3+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments	1	13	13	n/a												
Pollen																
§ TOTAL FUNGAL SPORES	21	280	n/a	100	11	150	n/a	100	13	170	n/a	100	7	93	n/a	100
Alternaria	1	13	13	5												
Ascospores	2	27	13	10	1	13	13	9	1	13	13	8				
Basidiospores	11	150	13	52	2	27	13	18	2	27	13	15	2	27	13	29
Chaetomium																
Cladosporium	1	13	13	5	4	53	13	36								
Other brown																
Penicillium/Aspergillus types	5	67	13	24	4	53	13	36	9	120	13	69	5	67	13	71
Smuts, Periconia, Myxomycetes	1	13	13	5												
Stachybotrys									1	13	13	8				
Stemphylium																
Torula																
Ulocladium																
Zygomycetes																

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity/limit of detection is the Count/m³ divided by the raw count, expressed in Count/m³.

*The detection limit/limit of detection (DL) per cubic meter (m³) has been rounded to two significant figures to reflect analytical precision.

††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

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§ Total Fungal Spores has been rounded to two significant figures to reflect analytical precision.

Client: TRC Solutions, Inc.
 C/O: Ms. Victoria Shepersky
 Re: 362890; West Tualatin View Elementary

Date of Sampling: 10-14-2019
 Date of Receipt: 10-15-2019
 Date of Report: 10-15-2019

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	2914 9686: Cafeteria 1C				2915 2548: Outdoor 2 Front			
Comments (see below)	None				None			
Lab ID-Version‡:	10821198-1				10821199-1			
Analysis Date:	10/15/2019				10/15/2019			
Sample volume (liters)	75				75			
Background debris (1-4+)††	3+				1+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments								
Pollen					1	13	13	n/a
§ TOTAL FUNGAL SPORES	7	93	n/a	100	124	1,700	n/a	100
Alternaria								
Ascospores					14	190	13	11
Basidiospores	1	13	13	14	101	1,300	13	81
Chaetomium								
Cladosporium	2	27	13	29	1	13	13	1
Other brown								
Penicillium/Aspergillus types	3	40	13	43	8	110	13	6
Smuts, Periconia, Myxomycetes	1	13	13	14				
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity/limit of detection is the Count/m³ divided by the raw count, expressed in Count/m³.

*The detection limit/limit of detection (DL) per cubic meter (m³) has been rounded to two significant figures to reflect analytical precision.

††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Fungal Spores has been rounded to two significant figures to reflect analytical precision.

Client: TRC Solutions, Inc.
C/O: Ms. Victoria Shepersky
Re: 362890 West Tualatin ESDate of Sampling: 09-18-2019
Date of Receipt: 09-19-2019
Date of Report: 09-19-2019**MoldRANGE™, Local Climate; Extended Outdoor Comparison****Outdoor Location: 28956406, Outside Air N @ Gym & Main Bldg**

Fungi Identified	Outdoor data	Typical Outdoor Data for: September in Oregon† EMLab Local Climate code‡ A Annual Temp, B Elev., B Rain, B Temp. Range (n‡=170)						Typical Outdoor Data for: The entire year in Oregon† EMLab Local Climate code‡ A Annual Temp, B Elev., B Rain, B Temp. Range (n‡=2055)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Project zip code 97225	spores/m3												
Generally able to grow indoors*													
Alternaria	-	13	13	27	53	69	44	13	13	13	53	67	19
Bipolaris/Drechslera group	-	-	-	-	-	-	4	10	13	13	27	50	2
Chaetomium	-	-	-	-	-	-	8	12	13	13	13	31	5
Cladosporium	330	340	620	1,800	4,700	7,800	> 99	53	110	430	1,600	3,100	87
Curvularia	-	-	-	-	-	-	2	13	13	13	13	13	1
Epicoccum	-	13	13	27	65	120	40	13	13	13	53	89	16
Nigrospora	-	-	-	-	-	-	5	7	13	13	27	53	2
Other brown	-	13	13	27	53	53	38	13	13	13	53	67	25
Penicillium/Aspergillus types	67	110	250	570	1,500	2,700	96	53	110	320	800	1,500	90
Pithomyces	-	13	13	27	77	160	26	10	13	13	53	85	7
Stachybotrys	-	-	-	-	-	-	2	7	13	13	110	1,000	< 1
Torula	-	-	-	-	-	-	9	13	13	13	40	60	6
Seldom found growing indoors**													
Ascospores	450	140	290	890	3,100	6,300	96	80	160	530	1,900	3,500	93
Basidiospores	4,500	500	880	2,900	8,400	14,000	99	200	370	1,400	4,700	8,500	98
Botrytis	13	13	13	27	53	110	28	13	13	27	67	110	15
Cercospora	-	-	-	-	-	-	3	12	13	13	27	30	1
Rusts	-	13	13	27	75	110	41	13	13	20	53	93	22
Smuts, Periconia, Myxomycetes	27	13	13	51	110	200	67	13	13	40	110	220	52
§ TOTAL SPORES/m3	5,400												

†EMLab Local Climate codes are a climate classification scheme for statewide geographic areas. The MoldRANGE™ Local Climate report uses the sampling location zip code to identify the EMLab Local Climate code in that area. Using information available from the NOAA weather database, the EMLab Local Climate code sharpens the precision of the MoldRANGE™ reporting system, providing more reliable estimates of the range and average concentrations of the different airborne fungal spore types for each region. Additional information on the EMLab Local Climate code system can be found on the last page of this report.

‡The Typical Outdoor Data represents the typical outdoor spore levels across the state for the time period and EMLab Local Climate code indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically and if not enough data is available to make a statistically meaningful assessment, it is indicated with a dash.

‡ n is the sample size used to calculate the MoldRANGE™ Local Climate data summarized in the table.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: TRC Solutions, Inc.
 C/O: Ms. Victoria Shepersky
 Re: 362890 West Tualatin ES

Date of Sampling: 09-18-2019
 Date of Receipt: 09-19-2019
 Date of Report: 09-19-2019

MoldRANGE™, Local Climate; Extended Outdoor Comparison
Outdoor Location: 28956690, Outside Air S @ A114 & A112

Fungi Identified	Outdoor data	Typical Outdoor Data for: September in Oregon† EMLab Local Climate code¹						Typical Outdoor Data for: The entire year in Oregon† EMLab Local Climate code¹					
		A Annual Temp, B Elev., B Rain, B Temp. Range (n‡=170)						A Annual Temp, B Elev., B Rain, B Temp. Range (n‡=2055)					
Project zip code 97225	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	27	53	69	44	13	13	13	53	67	19
Bipolaris/Drechslera group	-	-	-	-	-	-	4	10	13	13	27	50	2
Chaetomium	-	-	-	-	-	-	8	12	13	13	13	31	5
Cladosporium	290	340	620	1,800	4,700	7,800	> 99	53	110	430	1,600	3,100	87
Curvularia	-	-	-	-	-	-	2	13	13	13	13	13	1
Epicoccum	27	13	13	27	65	120	40	13	13	13	53	89	16
Nigrospora	-	-	-	-	-	-	5	7	13	13	27	53	2
Other brown	-	13	13	27	53	53	38	13	13	13	53	67	25
Penicillium/Aspergillus types	120	110	250	570	1,500	2,700	96	53	110	320	800	1,500	90
Pithomyces	-	13	13	27	77	160	26	10	13	13	53	85	7
Stachybotrys	-	-	-	-	-	-	2	7	13	13	110	1,000	< 1
Torula	-	-	-	-	-	-	9	13	13	13	40	60	6
Seldom found growing indoors**													
Ascospores	970	140	290	890	3,100	6,300	96	80	160	530	1,900	3,500	93
Basidiospores	24,000	500	880	2,900	8,400	14,000	99	200	370	1,400	4,700	8,500	98
Botrytis	-	13	13	27	53	110	28	13	13	27	67	110	15
Cercospora	13	-	-	-	-	-	3	12	13	13	27	30	1
Rusts	-	13	13	27	75	110	41	13	13	20	53	93	22
Smuts, Periconia, Myxomycetes	-	13	13	51	110	200	67	13	13	40	110	220	52
§ TOTAL SPORES/m3	26,000												

¹EMLab Local Climate codes are a climate classification scheme for statewide geographic areas. The MoldRANGE™ Local Climate report uses the sampling location zip code to identify the EMLab Local Climate code in that area. Using information available from the NOAA weather database, the EMLab Local Climate code sharpens the precision of the MoldRANGE™ reporting system, providing more reliable estimates of the range and average concentrations of the different airborne fungal spore types for each region. Additional information on the EMLab Local Climate code system can be found on the last page of this report.

‡The Typical Outdoor Data represents the typical outdoor spore levels across the state for the time period and EMLab Local Climate code indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically and if not enough data is available to make a statistically meaningful assessment, it is indicated with a dash.

‡ n is the sample size used to calculate the MoldRANGE™ Local Climate data summarized in the table.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: TRC Solutions, Inc.
C/O: Ms. Victoria Shepersky
Re: 362890 West Tualatin ES

Date of Sampling: 09-18-2019
Date of Receipt: 09-19-2019
Date of Report: 09-19-2019

Understanding EMLab Local Climate Codes

Outdoor airborne spore concentrations are strongly influenced by climate and weather patterns, often resulting in pronounced seasonal and diurnal cycles (Burge 1995). The seasonal climatic changes directly affect the growth cycle of plants, thereby influencing fungal growth, spore maturation, and release cycles. By evaluating outdoor spore concentrations across similar climatic zones rather than for the state as a whole, it is possible to provide a more representative estimate of typical outdoor spore levels and frequency of occurrence for different airborne fungal spore types in a given area.

The EMLab Local Climate code system is a novel and patent pending classification system that uses data from the NOAA - National Oceanic and Atmospheric Administration database to define unique climate regions by state. The following local climate variables, for each statewide zip code, are obtained from NOAA and assigned a letter code of A (above the statewide average for that variable) or B (below the statewide average for that variable):

1. Annual High Temperature
2. Elevation
3. Rainfall/Precipitation
4. Monthly Temperature Range

The result is a 4-character code assigned to each statewide zip code, referred to as the Local Climate Code. Below are some examples of decoded Local Climate Codes:

AAAA = Above avg. Annual High Temperature, Above avg. Elevation, Above avg. Rainfall/Precipitation, Above avg. Monthly Temperature Range
AABB = Above avg. Annual High Temperature, Above avg. Elevation, Below avg. Rainfall/Precipitation, Below avg. Monthly Temperature Range
BBA A = Below avg. Annual High Temperature, Below avg. Elevation, Above avg. Rainfall/Precipitation, Above avg. Monthly Temperature Range

The actual outdoor air sample data from matching local climate codes in each state are then compiled in a manner relating typical spore concentrations and frequency of occurrence.

The NOAA local climate variables were selected by mapping data points from a subset of approximately 145,000 weather and geographic database entries to over 80,000 outdoor spore trap samples with known zip codes and assessing them using orthogonal array experimental design techniques. The results were then compared to the typical ranges of spore types found when grouping zip codes using the Koppen-Geiger climatic classification system; a commonly used climatic system that provides an objective numerical definition in terms of climatic elements such as temperature, rainfall, and other seasonal characteristics. The EMLab Local Climate codes showed improved granularity and refinement of the zip code groupings, implying a better representation of the expected range of spore types to be found within an individual zip code.

The values on this report were calculated by obtaining the four variables listed above from the over 585 million data points of weather and geographic information available in the NOAA database, and determining the frequencies and percentile values of spore types by utilizing over 180,000 Eurofins EMLab P&K outdoor spore trap samples with known zip codes.

This report groups statewide zip codes in relation to these EMLab Local Climate codes and summarizes MoldRANGE™ data by month and year within each EMLab Local Climate code.

References:

Burge, Harriet, A. Bioaerosols: Boca Raton: Lewis Publishers, pp. 163-171, 1995.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by Eurofins EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, Eurofins EMLab P&K may not have received and tested a representative number of samples for every region or time period. Eurofins EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.