

21 Griffin Road North Windsor, CT 06095

860.298.9692 PHONE 860.298.6399 FAX

www.TRCsolutions.com

September 16, 2015

John Cloonan Director of Public Works 230C Mountain Road Suffield, CT 06078

Via email: Cloonan@Suffieldct.gov

RE: Suffield Town Hall Limited Indoor Quality Survey Report TRC Project # 242843.0000

John,

TRC conducted an Indoor Air Quality (IAQ) Assessment at the above-referenced site. The purpose of the assessment is to determine if there was evidence of amplified airborne microbial spores within the affected spaces located in Tax Collector and Tax Assessor offices 1st floor of Town Hall located at 83 Mountain Road, Suffield, CT. TRC was requested back on September 11, 2015 to investigate offices on ground floor for Parks & Recreation area. The investigation included visual/olfactory observations, coupled with microbial sampling (total fungal spore count and identification), baseline IAQ parameter measurements of temperature (T), relative humidity (RH), carbon dioxide (CO₂), carbon monoxide (CO) and total dust. Martin Lewis, Certified Industrial Hygienist, performed the sampling and visual inspection on August 28, 2015 and September 11, 2015 during the normal day shift.

OBSERVATIONS

At the time of the assessment, TRC observed the following:

- Outside Town Hall the ambient air was hot, sunny, slight wind and no active lawn care in progress.
- Town Hall offices are equipped with below window air conditioners feed chilled water by central unit in ground floor mechanical room. Staff reported A/C units in wall we serviced 3 weeks ago with drip pans cleaned and RectorSeal Refresh™ tablets placed in pan to control odor and growth of slime. Some office windows are opened for fresh air.
- Office spaces and hallways have aged floor carpeting with some staining but no visible debris.
- Office ceilings have 2'x4' cellulose tiles (CT) with some water stains present in Tax Assessor and Tax Collector offices. These old CT stains were report by staff as water intrusion from 2 years ago from winter ice dams.
- All occupied offices on 1st floor have multiple live plants present that could add to the airborne microbial results.

John Cloonan Page 2 September 16, 2015

- No active water intrusion was noted on 8/28/15 survey. Protimeter moisture readings on carpets and walls indicate normal moisture conditions are present.
- No visible mold or musty odors were noted on office building materials during survey. In Town Clerk area, staff use Yankee Sun & Sand scented candle for room deodorizer.
- Parks & Recreation copier room has ceiling panel removed with active water leak from copper tubing valve unit. Protimeter moisture reading on carpet indicate WME at 43.9%.

SAMPLING AND ANALYTICAL METHODS

Bioaerosol Monitoring

Sampling consisted of taking air samples with Air-O-Cell cassettes for total fungal spore counts (both viable and non-viable spores) and other airborne particulates. The spore trap samples were collected with an AP Buck air pump calibrated to 15 liters per minute and run for 5 minutes (75 liters of air). Airborne particulates are drawn through the cassette and directly impacted on an adhesive collection media. The cassettes are then sent to the laboratory for direct microscopic fungal examination. The Air-O-CellTM cassette collects both viable and non-viable fungal spores and the laboratory can identify some of the collected spores down to the genus level.

Eight air samples were collected in affected office area, un-affected office areas and two outside ambient air samples.

The microbial samples were sent to EMLAB P&K Laboratories in Marlton, NJ for total mold/fungi analysis. The results of the microbiological sampling are summarized in Table 1. The Chain of Custody and Laboratory reports from EMLAB P&K are included as Attachment 1. The results are typical of summer type conditions with normal fungal species compared to ambient outdoor concentrations. This indicates the indoor environment is not impacted with microbial activity at this time.

EMLAB P&K Lab participates in a variety of different proficiency testing programs, including the Environmental Microbiology Proficiency Analytical Testing Program (EMPAT) sponsored by AIHA.

Note: No federal or state standards or guidelines exist for acceptable or hazardous levels of spore counts. As a result, relative level/type comparisons and professional judgments of concentrations compared to "typical" and ambient levels are utilized to supplement visual inspections in order to provide an assessment.

TABLE 1 SPORE TRAP AIR SAMPLING RESULTS August 28, 2015

Sama	_	Count-	
Samp	e Location	Total	Identification
#		Spores/m ³	



Sample #	Location	Count- Total Spores/m ³	Identification
		13	Alternaria
		1,100	Ascospores
		1,400	Cladosporium
		750	Curvularia
		40	Ерісоссит
4	A 1	53	Ganoderma
1	Ambient outside east wall	53	Nigrospora
		490	Pithomyces
		2,600	Smuts, Periconia, Myxomycetes
		93	Hyphal Fragments
		390	Pollen
		6,500	Total Fungi
		590	Ascospores
		3,100	Basidiospores
		1,400	Cladosporium
		27	Curvularia
	E Decel Decle 1st Elecu	27	Epicoccum
2	E. Pascale Desk 1st Floor	110	Ganoderma
		27	Pithomyces
		27	Smuts, Periconia, Myxomycetes
		80	Pollen
		5,300	Total Fungi
		1,700	Ascospores
		690	Cladosporium
		120	Curvularia
		40	Epicoccum
		480	Ganoderma
3	H. Totz Desk 1st Floor	13	Nigrospora
		53	Pithomyces
		13	Rusts
		200	Smuts, Periconia, Myxomycetes
		13	Hyphal Fragments
		3,300	Total Fungi
		53	Alternaria
		690	Ascospores
		210	Cladosporium
4	K. Dungi Desk 1 st Floor	110	Ganoderma
"	ix. Dungi Desk i i iooi	27	Pithomyces
		13	Rusts
		13	Smuts, Periconia, Myxomycetes
		1,100	Total Fungi



Sample #	Location	Count- Total Spores/m³	Identification
		53	Ascospores
		910	Basidiospores
		430	Cladosporium
5	2 nd Floor Conference Room	27	Curvularia
3	2 ³³ Floor Conference Room	160	Ganoderma
		13	Rusts
		53	Smuts, Periconia, Myxomycetes
		1,600	Total Fungi
		53	Ascospores
		640	Basidiospores
6	J. Schectman Desk 1st Floor	210	Cladosporium
U	J. Scheeman Desk 1 11001	13	Pithomyces
		40	Smuts, Periconia, Myxomycetes
		960	Total Fungi
		110	Ascospores
		1,100	Basidiospores
7	Meeting Room Ground Floor	110	Cladosporium
/	Wieeting Room Ground Floor	160	Ganoderma
		13	Hyphal Fragments
		1,500	Total Fungi
		320	Ascospores
		2,800	Basidiospores
		1,500	Cladosporium
		270	Ganoderma
8	Ambient outside west wall	13	Nigrospora
O	Ambient outside west wan	13	Rusts
		27	Smuts, Periconia, Myxomycetes
		27	Hyphal Fragments
		27	Pollen
		4,900	Total Fungi
		960	Ascospores
		7,000	Basidiospores
		1,900	Cladosporium
		250	Curvularia
		13	Epicoccum
1	Ambient outside east wall	27	Nigrospora
		40	Pithomyces
		67	Polythrincium
		1,900	Smuts, Periconia, Myxomycetes
		240	Pollen
		12,000	Total Fungi



Sample #	Location	Count- Total Spores/m ³	Identification
		160	Ascospores
		2,000	Basidiospores
_	Curry d Floor Conion Boom	53	Curvularia
2	Ground Floor Copier Room	790	Smuts, Periconia, Myxomycetes
		13	Hyphal Fragments
		3,000	Total Fungi
		13	Alternaria
		210	Ascospores
		480	Basidiospores
		430	Cladosporium
3	Parks& Rec Main Office	67	Curvularia
		13	Pithomyces
		330	Smuts, Periconia, Myxomycetes
		13	Hyphal Fragments
		1,500	Total Fungi
		27	Alternaria
		53	Ascospores
		1,100	Basidiospores
		750	Cladosporium
4	Parks & Rec Supervisor Rm	53	Curvularia
	-	13	Epicoccum
1		67	Pithomyces
		120	Smuts, Periconia, Myxomycetes
		2,200	Total Fungi
		27	Alternaria
		53	Ascospores
		530	Basidiospores
_	Davids & Das Chauses Dasses	27	Curvularia
5	Parks & Rec Storage Room	13	Pithomyces
		440	Smuts, Periconia, Myxomycetes
		27	Hyphal Fragments
		1,100	Total Fungi

Count Total Spores $/m^3$ = Count of Total Spores per cubic meter of air.

Baseline Indoor Air Quality Parameter Monitoring

Monitoring of baseline IAQ Parameters was also conducted in the affected, unaffected and ambient areas. Real-time monitor readings for CO, CO₂, T, and RH and dust were collected using a TSI Q-Trak PlusTM IAQ Monitor Model 8554 and TSI DustTrakTM Model 8520 Aerosol Monitor.

Monitoring of particulate matter was conducted with the TSI, DustTrak[™] Aerosol Monitor. The US Environmental Protection Agency (US EPA) has established National Ambient Air Quality Standards (NAAQS) for exposure to particulate matter. Particulate matter is airborne solids that can be irritating to the eyes, nose and throat. The NAAQS originally established exposure limits to



John Cloonan Page 6 September 16, 2015

particulate matter with a diameter of 10 μ m or less (PM₁₀). According to the NAAQS, PM₁₀ levels should not exceed 150 micrograms per cubic meter (μ g/m³) in a 24-hour average (US EPA, 2006). These standards were adopted by both ASHRAE and BOCA. Since the issuance of the ASHRAE standard and BOCA Code, US EPA established a more protective standard for fine airborne particles. This more stringent PM_{2.5} standard requires outdoor air particle levels be maintained below 35 μ g/m³ over a 24-hour average (US EPA, 2006). Although both the ASHRAE standard and BOCA Code adopted the PM₁₀ standard for evaluating air quality, TRC recommends the more protective PM_{2.5} standard for evaluating airborne particulate matter concentrations in the indoor environment. The OSHA PEL for respirable dust, also known as particulates not otherwise classified (PNOC), is 5 mg/m³. BOCA recommends that Total Dust levels of less than 0.06 mg/m³ and Leadership in Energy and Environmental Design (LEED) recommends levels of less than 0.05 mg/m³.

 CO_2 is a useful indicator of inadequate make-up (fresh) air and inadequate air supply per occupant. American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) Standard 62-2001, *Ventilation for Acceptable Indoor Air Quality*, recommends a delta (difference between inside and outside concentrations) value of 700 parts per million (ppm) or less for CO_2 . The delta value of 700 ppm equates to approximately 15 cubic feet per minute of supply air per occupant. Ambient concentrations of carbon dioxide generally range from 300 - 500 ppm. OSHA's PEL and the American Conference of Governmental Industrial Hygienists (ACGIH) TLV for CO_2 is 5000 ppm.

CO is a combustion product, often present in buildings with boilers, fuel-burning engines, parking garages, or busy side streets near the fresh air intakes. Carbon monoxide is a colorless, odorless gas that can cause fatigue or drowsiness, nausea, headache, and difficulty breathing when present at elevated levels. OSHA's PEL for CO is 50 ppm. ACGIH's TLV for CO is 25 ppm. The National Ambient Air Quality Standard (NAAQS) for CO is 9 ppm.

Occupants are generally tolerant of temperatures between $68^{\circ} - 82^{\circ}$ F. ASHRAE Standard 55-2004 <u>Thermal Environmental Conditions for Human Occupancy</u> recommends temperatures be maintained between $75^{\circ} - 82^{\circ}$ F during warmer summer operative conditions and $68^{\circ} - 78^{\circ}$ F in cooler winter operative conditions.

Relative humidity below 30% may cause specific physiological effects, which lead to discomfort and dissatisfaction with the indoor environment. Potential symptoms include dry and sore nose and throat, bleeding nose, sinus and tracheal irritation, dry scratchy eyes, inability to wear contact lenses, and dry flaking skin. The number of persons affected generally increases as the RH drops below 30%. Low RH may also contribute to an increase in respiratory illness, by weakening the defenses provided by the mucous membranes. At the other end of the spectrum, discomfort and dissatisfaction is common with RH readings above 60%. Carpets, curtains, furniture, etc., can absorb enough moisture at 60% RH to promote microbial growth. In addition, elevated RH can lead to condensation on materials with cooler surface temperatures and subsequently promote microbial growth. Several industry organizations recommend RH be maintained between 30% - 60%. ASHRAE Standard 55-2004 recommends RH be maintained below 65%. ACGIH recommends RH be maintained below 60% to prevent the amplification of microbial growth. Table 2 is a summation of the CO₂, CO, temperature, and relative humidity measurements.

The Building Officials and Code Administration (BOCA) use 0.060 mg/m³ (60 ug/m³) or less as an acceptable level for indoor total dust levels. As indicated in Table 2, the locations sampled



John Cloonan Page 7 September 16, 2015

were within the BOCA recommended level of less than 0.060 mg/m³. This indicates that the air handlers that service the facility have adequate air filtration.

The Q-TrakTM and DustTrakTM statistical summations are included as Attachment 2.

 $\begin{array}{c} \text{TABLE 2} \\ \text{CO}_2, \, \text{CO}, \, \text{TEMPERATURE}, \, \text{RELATIVE HUMIDITY}, \, \text{DUST} \\ \text{MEASUREMENTS} \end{array}$

August 28, 2015, September 11, 2015

Location Date	CO ₂ AVE (ppm)	CO AVE (ppm)	T AVE (F)	RH AVE (%)	Dust mg/m³
Ambient outside east wall	405	3	88.7	40.0	0.025
E. Pascale Desk 1 st Floor	463	2	72.3	47.7	0.012
H. Totz Desk 1st Floor	529	1	74.3	51.3	0.015
K. Dungi Desk 1st Floor	730	1	74.0	45.4	0.013
2 nd Floor Conference Room	825	1	74.2	48.8	0.011
J. Schectman Desk 1st Floor	600	1	74.1	47.3	0.012
Meeting Room Ground Floor	461	1	72.6	56.2	0.008
Ambient outside west wall	425	1	71.9	55.7	0.011
Ambient outside east wall	433	1	71.4	71.0	0.005
Ground Floor Copier Room	646	1	73.1	61.8	0.013
Parks& Rec Main Office	790	1	71.6	54.7	0.013
Parks & Rec Supervisor Rm	624	1	72.2	64.6	0.010
Parks & Rec Storage Room	568	1	72.4	60.4	0.007
Standards	OSHA PEL and ACGIH TLV=5000; ASHRAE = <700 above ambient.	ACGIH TLV=25; OSHA PEL=50; NAAQS=<9 LEED=<9 or <2 above ambient.	ASHRAE Summer = 75-82 Fall & Winter = 68-78	ACGIH =<60; ASHRAE=30- 65	BOCA<0.06 LEED<0.05 EPA PM _{2.5} <0.035

ppm = parts per million AVE = Average reading



John Cloonan Page 8 September 16, 2015

CONCLUSIONS

- The total indoor airborne spore count in both the affected and un-affected areas is similar in count and both are less than the ambient total spore count.
- TRC did not observe visible mold on any building surfaces on the day of sampling. No microbial odors were noted during survey however the Town Clerk office area has room deodorizer in use that may affect some occupants or visitors. Ceiling tiles have visible water stains from old water intrusion events.
- The relative humidity measurements within the sampled areas are within the ACGIH guidelines for minimizing the potential for biological growth (< 60 %).
- The baseline IAQ measurements taken in the selected areas of the facility indicate concentrations for CO, CO₂, Temperature and Dust to be in the acceptable ranges.

RECOMMENDATIONS

Based on this assessment, TRC makes the following recommendation.

- Maintain HVAC systems to provide conditioned air for cooling with properly cleaned coils and drip pans to control HVAC odors. Ensure drip pans drain properly to prevent water intrusion inside building.
- Monitor building occupant complaints and investigate source of complaint conditions.
 Investigate educating Town Hall employees about IAQ parameters and typical building conditions for age and condition of Town Hall building.
- Repair water leak in Parks and Recreation copier room to prevent possible microbial amplification.
- If water intrusions occur the affected areas should be cleaned and dried within 24 to 48 hours to prevent microbial growth.

If you have any questions, please call TRC at (860) 298-6309.

TRC Environmental Corporation

Martin O. Lewis

Martin J. Lewis, CIH, CSP, CPEA Senior EHS Project Manager

Jennifer Peshka, CMC Project Manager

Attachment:







John Cloonan Page 9 September 16, 2015

REFERENCES

- A. USEPA 402-K-01-001 Mold Remediation in Schools and Commercial Buildings, 2001.
- B. OSHA SHIB 03-10-10 A Brief Guide to Mold in the Workplace, 2003.
- C. ACGIH Bioaerosols Assessment and Control, 1999.
- D. ASHRAE Standard 62 Ventilation for Acceptable Indoor Air Quality.
- E. SMACNA Indoor Air Quality Guidelines for Occupied Buildings Under Construction.
- F. IESO Standards of Practice for the Assessment of Indoor Environmental Quality.
- G. EPA Building Air Quality; A Guide for Building Owners and Facility Managers.
- H. LEED-NC Green Building Rating System for New Construction & Major Renovations ver. 2.2, October 2005
- I. ACGIH Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices
- J. ASHRAE Standard 55 Thermal Environmental Conditions for Human Occupancy.



ATTACHMENT 1

CHAIN OF CUSTODY AND LABORATORY REPORTS FROM EMLAB P&K

CHAIN OF CUSTODY www.EMLabPK.com

EMLab P&K

Chory Alli, N.P. 1928. Chrey-Avenus, Chery H.R. Juliosops ", (1856) 217-1954. Procents, AZ: 1501. West Khudsen Chris., Phosnik, AZ: 65727. " (1919) 451-4502. Sen Brusa, GA: 1150 Osynik Drive, MRX, Sen Brusa, GA: 94055. (1554) 598-4555.

THE REPORT OF THE PROPERTY OF

COMPANY TRC Environmenta Martin Lewis 860 298 6309

Cortact

Phone

Project Doscrption: Project (O):

PO Number

Project Zip Cooke

			č)
S INC.		Ü	Myrane Just	Water, Bulk, Dus
		Next-Cuthusble		Trap Sweb
1,000				
Clear	738 1	200	T C	
Wind Clear	D SIST	N LER		
Snow Wind Clear				
Rein Snow Wind Clear				
Fog Rein Snow Wind I Clear				

A. R. S. S. C.	0 2 In	D K4 11 /		}	
STATE OF THE PROPERTY OF THE PARTY OF THE PA		25	•		Cinicacon attended birth
	March Park	340115 NOW!		thing (ed C.A.)	This contration of the second substitute of th
		アロアトロイグがい	ライで	1 Martin X/1	10 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m
	D-Dust	50-30			, ,
	ede1-1	SW-5865	B-Bulk	O-OFFER.	
STRUCK WENNERS	(SI) Spore Trags Zerbe,	Heitpenco, Burkerd	P - Potable Water	MP - Non-Postes Water	,
	BC - Bottmosta **	A1S - Arderson	SAS - Surface Air Searctar P - Potahi	CP - Coract Flam	

36

2022

ŏ

By submitting this Gibnin of Olestoby, you agree in be bound by the larme and devallans califorth of <u>inturdiventem RD</u> Copyright © 2012 EMLab PRK

Der Fill Spiel Zie Bereich 2007 Spiel Fall Ge



Report for:

Martin Lewis, CIH, CSP, CPEA TRC Environmental Corporation - CT 21 Griffin Road North Windsor, CT 06095

Regarding:

Project: Suffield Town Hall; IAQ Survey EML ID: 1416834

LIVIL ID. 1410034

Approved by:

Dates of Analysis: Spore trap analysis: 09-01-2015

Technical Manager Ariunaa Jalsrai

Service SOPs: Spore trap analysis (EM-MY-S-1038) AIHA-LAP, LLC accredited service, Lab ID #103005

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 items tested.

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.

EMLab P&K 3000 Lincoln Drive East, Suite A, Marlton, NJ 08053 (866) 871-1984 Fax (856) 489-4085 www.emlab.com

Client: TRC Environmental Corporation - CT C/O: Martin Lewis, CIH, CSP, CPEA Re: Suffield Town Hall; IAQ Survey

Date of Receipt: 08-28-2015 Date of Receipt: 08-31-2015 Date of Report: 09-01-2015

SPORE TRAP REPORT; NON-VIABLE METHODOLOGY

Location:		01: Ambient East Wall	t Wall		ដ	02: E. Pascale Desk 1st Fl	& 1st FI		I	03: H. Totz Desk 1st Fl	Ist F		75	04: K. Dungi Desk 1st Fl	CIS E	
Comments (see below)		None				None				None				None		
Lab ID-Version‡:		6525272-1				6525273-1	, t			6525274-1	·			6525275-1	,000	
Analysis Date:		2102/10/60	Sime SC:			09/01/2015	15			5102/10/60	S			09/01/2015	Ş	
Sample volume (liters)		35				3.2				52				75		
Background debris (1-4+)††		± V				+				*				+		
	Count	Countin3	DL/m3•	je.	Count	Countins	DL/m3*	\$ c	Count	Countin3	DL/m3*	**	Count	Countin3	DL:m3*	Z,
Hyphal fragments	4	66	ଶ	编						13	13	#				
Pollen	33	390	13	200	œ	80	13	n/a								
§ TOTAL FUNGAL SPORES	198	6,500	14.3	100	105	5,300	16/a	001	8.7	3,300	16年	8	34	(,160	株市	100
Alteruria	1	£ 1	13	¥												
Ascospores	- - 1	1,100	£	=	11	260	ES	ш					1	53	53	1 /3
Basidiospores					85	3,100	53	65	32	1,700	53	51	13	690	53	62
Chaetomium																
Cladosporium	26	1,400	53	21	98	1,400	53	38	13	690	53	7	7	210	53	61
Curvularia	9.6	750	13	11	7	2.7	13	1	6	120	13	4				
Epicoccum	m	7	53	-	7	11	13	1	ę	O f	13					
Ganotema		53	83	1	ĩ	911	53	3	6	480	53	14	¢1	110	53	10
Nigrospora	च	53	13	1					,	13	13	¥				
Penicillium/Aspergillus types																
Pithomyces	37	490	Ð	≫ ≎	es	27	13	-	77	83	13	¢ à	¢.	Lie	13	ć١
Rusts									ı	13	13	<1	ļ	13	13	
Smuts. Periconia, Myxomycetes	49	2,600	83	940	₹^#	11	13	-	1,5	300	13	œ		13	13	-
Sachybonys																
C																

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

The analytical sensitivity is the sporesin 3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

^{*}The DL/m3 has been rounded to a whole number.

^{#13}ackground debris indicates the amount of non-biological particular, mutter 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 debrits should be regarded as minimal counts and may be higher then reported. It is important to account for samples valuances 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 Spaces has been rounded to two significant figures to reflect analytical precision.

EMLab P&K 3000 Lincoln Drive East, Suite A, Marlton, NJ 08053 (866) 871-1984 Fax (856) 489-4085 www.emlab.com

Client: TRC Environmental Corporation - CT C/O: Martin Lewis, CIH, CSP, CPEA Re: Suffield Town Hall; IAQ Survey

Date of Sampling: 08-28-2015 Date of Receipt: 08-31-2015 Date of Report: 09-01-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:		05:				90				(L)				.80		
	CI	2nd Floor Conf. Rm	nf. Rm		J. Sc.	J. Schectman Desk 1st FL	sk Ist F		Mee	Meeting Rm - Ground FL	round	EL	₹7,	Ambient West Wall	t Wall	
Comments (see below)		None				None				None				None		
Lab ID-Version‡:		6525276-1	Maria 4			6525277	June			6525278-1	_			6525279	pensi	
Analysis Date:		09/01/2015	.;			09/01/2015	Ş			09/01/2015	5			\$1.02/10/60	5	
Sample volume (liters)		7.5				32				75				75		
Background debris (1-4+)††		<u>±</u>				<u>+</u>				± v				+		
	Count	Countin3	DL/m3*	. e	Count	Countini	DL.m3*	9%	Count	Countin3	DIJm'3.	%	Count	Countin3	DL:m3*	j.
Hyphal fragments									-	13	E)	Ę;u	2	LT.	13	E/H
Pollen													Ċ	L	13	n:a
§ TOTAL PUNGAL SPORES	36	0091	n'a	100	31	960	nà	100	2.8	1,500	n-a	100	9.5	4,900	n'a	100
Alternaria				_						3						
Ascospores	ı	£3	es	3	1	£3	53	9	c	110	ES	E	9	920	53	7
Basidiospores	1.7	910	33	58	13	640	53	29	21	1,100	33	75	52	2,800	53	57
Chaetomium																
Cladosporium	*	430	83	36	ㅋ	210	53	ü	5.5	116	Ş	-1	2.8	1,500	53	30
Curvularia	cı	27	13	e s												
Epicoceum																
Салобетна	3	160	53	10					3	160	53	=	. 5	270	53	5
Penicillium/Aspengillus types																
Pithomyces					1	13	13	1					1	В	13	V
Rusts	-	63	Ü	-									-	13	13	¥
Smats, Periconia, Myxomycetes	7	53	13	m	#1	40	13	ਚ					2	27	13	1
Stachybotrys																
Comments:																

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

EMLab P&K, LLC

EMLab ID: 1416834, Page 3 of 3

^{*}The DL/m3 has been rounded to a whole number.

[#]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). Course from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

[‡] A "Version" indicated by "x" after the Lab ID9 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.

This cover letter and accompanying pages are an integral part of this report. All analyses are performed in our AIHA and EMLAP accredited laboratory. The data generated in this report are based on the samples and accompanying information provided and represent concentrations at a point in time under the conditions sampled. Results can vary with site conditions. EMLab P&K employees did not collect samples for this project, may provide only limited interpretation of this data as it relates to the overall investigation.

Quality Assurance

EMLab P&K is staffed with highly trained professionals, including PhD's, chemists, and registered microbiologists with over 40 years of experience. The reliability of test results depends on many factors such as the personnel performing the tests, environmental conditions, selection and validation of test methods, equipment functioning, measurement traceability, as well as the sampling, storage and handling of test items, all of which are a reflection of the laboratories overall quality system.

EMLab P&K has modeled its quality system after ISO 17025, General Requirements for the Competence of Testing and Calibration Laboratories, one of the most stringent sets of standards in the industry, to ensure that its customers receive the high standard of accuracy, reliability, and impartiality that they have come to expect from a leader in the environmental industry. EMLab P&K's adherence to the standards set forth in ISO 17025 has been validated and formally recognized through accreditations granted by an independent outside agency, American Industrial Hygiene Association (AIHA). As an additional measure to demonstrate its competency to perform the analyses it offers to its clients, EMLab P&K also participates in a variety of different proficiency testing programs, including the Environmental Microbiology Proficiency Analytical Testing Program (EMPAT) sponsored by the American Industrial Hygiene Association.

As part of its continuous commitment to excellence, EMLab P&K is also inspected, licensed and/or accredited by a number of governmental agencies and independent associations in addition to those already mentioned above. The scope document, accreditation certificates, and proficiency results can all be accessed at www.emlab.com. Below you will find additional information regarding the specific analyses requested for this project.

Comments

The comments identify issues or events that are relevant to your analytical results. A comment includes information about the validity, the source of the data whether calculated, entered or estimated, and the value of an observation. In each case the comments provide significant information vital to the interpretation of the laboratory data.

This communication is intended only for the individual or entity to which it is directed. It may contain information that is privileged, confidential, or otherwise exempt from disclosure under applicable law. Dissemination, distribution, or copying of this communication by anyone other than the intended recipient, or a duly designated employee or agent of such recipient, is prohibited. If you have received this communication in error, please notify us immediately by telephone, and delete this message and all attachments thereto.

For additional information, or if you have any questions regarding this report, please do not hesitate to call.

Analytical References

Medically Important Funqi: A Guide to Identification, 3rd ed., ASM, 1995.
Standard Methods for the Examination of Water and Wastewater, 19th ed., APHA, 1995.
Sampling and Identifying Allergenic Pollens and Molds, Blewstone, 1990.
Identifying Filamentous Funqi: A Clinical Laboratory Handbook, Star, 1996.
Manual of Clinical Microbiology, 7th ed., ASM, 1999.
A Laboratory Guide to Common Aspergillus Species and their Teleomorphs. CSIRO, 1994.
Bioaerosols: Assessment and Control, ACGIH, 1999.

3000 Lincoln Drive East, Suite A, Marlton, NJ 08053 (866) 871-1984 Fax (856) 489-4085 www.emlab.com

Client: TRC Environmental Corporation - CT C/O: Martin Lewis, CIH, CSP, CPEA Re: Suffield Town Hall; IAQ Survey Date of Sampling: 08-28-2015 Date of Receipt: 08-31-2015 Date of Report: 09-01-2015

MoldRANGETM, Local Climate; Extended Outdoor Comparison

Outdoor Location: 01, Ambient East Wall

Fungi Identified	Outdoor data		EMLab	ugust in Region B Elev	Northeas 11 Climat	it? e code¹			The e	al Outd niire yea Region B Elev. (n.j.=	r în Nord d Climat	e code,	: p. Range
Ртојесt zip code 06078	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	13	29	80	130	76	7	13	27	67	110	41
Bipolaris/Drechslera group	-	5	7	12	40	66	11	5	7	13	20	27	7
Chaetomium	-	-	-	-	-	-	3	5	7	13	13	27	4
Cladosporium	1,400	210	340	880	2,500	4,000	97	53	100	400	1,500	2,900	83
Curvularia	750	7	11	20	44	100	35	5	7	13	27	53	15
Epicoceum	40	7	10	20	40	61	42	7	10	20	40	67	33
Ganoderma	53	34	53	140	260	410	25	27	53	110	210	320	9
Nigrospora	53	5	7	11	27	27	15	5	7	13	27	33	10
Penicillium/Aspergillus types	-	80	110	300	880	1,400	64	53	53	190	530	960	56
Pithomyces	490	7	13	27	72	270	70	7	11	22	53	120	27
Stachybotrys	-	-	~	~	~	-	<1	7	7	13	48	53	1
Torula	-	5	7	13	53	93	9	5	7	13	33	53	6
Seldom found growing indoors**													·
Ascospores	1,100	210	320	750	1,800	3,700	99	53	100	430	1,500	2,800	78
Basidiospores	-	1,300	1,800	4,900	14,000	23,000	> 99	67	180	1,500	6,400	12,000	95
Rusts	-	5	10	20	66	120	36	7	10	20	53	86	23
Smuts, Periconia, Myxomycetes	2,600	10	13	33	73	160	74	10	13	40	110	210	61
8 TOTAL SPORES/m3	6,500												

'EMLab Regional Climate codes are a climate classification scheme for regional geographic areas containing multiple states. The MoldRANGEP^M Local Climate report uses the sampling location zip code to identify the EMLab Regional Climate code in that area. Using information available from the NOAA weather database, the EMLab Regional Climate code sharpens the precision of the MoldRANGEP^Mreporting 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 Regional 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 region's group of states for the time period and EMLab Regional 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.

- \ddagger n is the sample size used to calculate the MoldRANGETM 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.

3000 Lincoln Drive East, Suite A, Marlton, NJ 08053 (866) 871-1984 Fax (856) 489-4085 www.emlab.com

Client: TRC Environmental Corporation - CT C/O: Martin Lewis, CIH, CSP, CPEA Re: Suffield Town Hall; IAQ Survey Date of Sampling: 08-28-2015 Date of Receipt: 08-31-2015 Date of Report: 09-01-2015

MoldRANGE™, Local Climate; Extended Outdoor Comparison

Outdoor Location: 08, Ambient West Wall

Fungi Identified	Outdoor data		EMILab	ugust in Region B Elev. (n]=	Northeas il Climat A Rain 244)	iț e code ^a . A Temp	. Range		The e EMLal al Temp	(n]=	r în Nori il Climat . A Rain 2332)	heast† e code ^s	p. Range
Project zip code 06078	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very hìgh	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	29	80	130	76	7	13	27	67	110	41
Bipolaris/Drechslera group	-	5	7	12	40	66	11	5	7	13	20	27	7
Chaetomium	-	-	-	-	-	-	3	5	7	13	13	27	4
Cladosporium	1,500	210	340	880	2,500	4,000	97	53	100	400	1,500	2,900	83
Curvularia	-	7	11	20	44	100	35	5	7	13	27	53	15
Epicoccum	-	7	10	20	40	61	42	7	10	20	40	67	33
Ganoderma	270	34	53	140	260	410	25	27	53	110	210	320	9
Nigrospora	-	5	7	11	27	27	15	5	7	13	27	33	10
Penicillium/Aspergillus types	-	80	110	300	880	1,400	64	53	53	190	530	960	56
Pithomyces	13	7	13	27	72	270	70	7	11	22	53	120	27
Stachybotrys		-	-	-	-	-	< 1	7	7	13	48	53	1
Torula	-	5	7	13	53	93	9	5	7	13	33	53	6
Seldom found growing indoors**	1 - 1												
Ascospores	-320	210	320	750	1,800	3,700	99	53	100	430	1,500	2,800	78
Basidiospores	2,800	1,300	1,800	4,900	14,000	23,000	> 99	67	180	1,500	6,400	12,000	95
Rusts	13	5	10	20	66	120	36	7	10	20	53	86	23
Smuts, Periconia, Myxomycetes	27	10	13	33	73	160	74	10	13	40	110	210	61
§ TOTAL SPORES/m3	4,900												

EMLab Regional Climate codes are a climate classification scheme for regional geographic areas containing multiple states. The MoldRANGE™ Local Climate report uses the sampling location zip code to identify the EMLab Regional Climate code in that area. Using information available from the NOAA weather database, the EMLab Regional 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 Regional 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 region's group of states for the time period and EMLab Regional 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.

 $\dot{\tau}$ is the sample size used to calculate the MoldRANGETM 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.

3000 Lincoln Drive East, Suite A, Marlton, NJ 08053 (866) 871-1984 Fax (856) 489-4085 www.emlab.com

Client: TRC Environmental Corporation - CT C/O: Martin Lewis, CIH, CSP, CPEA Re: Suffield Town Hall; IAQ Survey Date of Sampling: 08-28-2015 Date of Receipt: 08-31-2015 Date of Report: 09-01-2015

Understanding EMLab Regional 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 Regional 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 zones. The following climate variables, for each regional zip code, are obtained from NOAA and assigned a letter code of A (above the regional average for that variable) or B (below the regional 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 Regional Climate Code. Below are some examples of decoded Regional 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

BBAA = 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 regional climate codes in each group of states are then compiled in a manner relating typical spore concentrations and frequency of occurrence.

The data presented in this report is from the Northeast Region which includes the states of: CT, DE, MA, MD, ME, NH, NJ, NY, PA, RI, and VT

The NOAA regional 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 Regional 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 EMLab P&K outdoor spore trap samples with known zip codes.

This report groups regional zip codes in relation to these EMLab Regional Climate codes and summarizes MoldRANGETM data by month and year within each EMLab Regional 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 analyzade by EMLaid b P&R 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, EML ab P&K may not have received and tested a representative number of samples for every region or time period. 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.

EMLab P&K, LLC

EMLab ID: 1416834, Page 3 of 3

ATTACHMENT 2

Q-TRAKTM and DUSTTRAKTM STATISTICAL SUMMATIONS NOTES with SAMPLE LOCATIONS BUILDING PHOTOGRAPHS

TRC Environmental Corp - Martin Lewis, CIH, CSF, CPEA Suffield Town Hall IAQ Survey

Instrument [S/N]	Test#	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximiza	Minima
2-Trak with CO S0342	100	08/28/2015	11:17:53	0:00:05:22	405	mdd	200	416	395
		Andrews in the state of the sta			m	Ę,	8	<i>(7</i>)	.64,
	NATURAL PROPERTY OF THE PROPER	TOTO VINANTALARAMANANANANANANANANANANANANANANANANANAN			. 1	p. Dept	Temp	93.4	81.6
The second control of	entrantimone propriedades de la constantina della constantina dell				40.0	gU	ţ.	(3.1	37.1
O-Trak with GO 50342	200	08/28/2015	11:32:44	0:00:05:46	463	යිස්	202	3.68B	চুক্ত
December 19900000000000000000000000000000000000	ADVENTAGE AND ADDRESS OF THE ADDRESS				М	und d	8	řvi	1-1
	e special proposación de construcción esta de construcción esta de construcción de construcció	FOOT TOTAL BALLON CONTRACTOR CONT	Transmitter and the state of th	ALTO TO THE	72.3	ತ್ರ ಕ್ರಾ	Тепр	76.3	70.8
				Annesservor et cicicate and it is the state of the state	r. Fri	, sin	τ'n	r- 25	42.7
2-Trak with CO 50342	EUO	08/28/2015	11:42:09	0:00:00:20	529	wdd.	2005	6 kg	51.0
	monockiveles & Arkivi 1990 (1990) (1990)				H	wad	00	j.	prof
	**************************************	THE REAL PROPERTY OF THE PERSON OF THE PERSO	- COMP FD 75		m T	deg si	Teno	74.6	en :
					6, T.S	2/4	TJ.	53.5	50.1
O-Trak with Co	004	08/28/2015	50:15:	0:00:06:48	130	ucici	202	783	269
					-	urđđ	000	r"i	Ħ
	and distribution of circles (The property of the 2012)				74.6	# bep	Temp	(4. A)	O. 4.
e de la constanta de la consta					19 P	ge!	"Ei hi	46.3	45.1
O-Trak with Co S0342	500	08/28/2015	12:01:13	0:00:00:28	825	udo.	CO2	626	123

TRC Environmental Corp - Martin Lewis, CIH, CSP, CPER. Suffield Town Hall 150 Survey

			The state of the s	T		The is the or	2000	Mr. seri march	
Instrument [S/N]	Test #	D n	0000 X + 100	dd:hh:mm:ss	p ferred	9			
O-Trak with CO S0342	200	08/28/2015	12:01:13	0:00:09:28	إشو	wedd	CO	ji	H
					क्ष. स्ट	deg F	Temo	75.1	7 7 1
The second secon					48,8	di?	Чл	20%	2 · L#
0-Trak with CO 50342	900	08/28/2015	12:15:00	0:00:06:37	600	udd	200	179	252
						mdd	00	iri	ca
		mani di Salaman	The second secon		14:1	deg r	Temp	74.4	73.1
	THE REAL PROPERTY OF THE PROPE	(CALADA AND AND AND AND AND AND AND AND AND			47.3	ø	Ç,	43.7	T.
O-Trak with CC 50342	500	08/28/2015	12:30:29	0:00:07:46	193	urdd	200	हा है	425
					p≈‡	EG.	8	+1	0
		:			72.6	g Sep	Temp	73,2	म • १५
12000000000000000000000000000000000000					2.95	#¢	igi is	26. B	55.6
O-Trak with co	800	08/28/2015	12:42:51	0:00:08:13	125	mod	202	eg er	40.6
		d			Ä	mđđ	82	'p	Ö
					11.9	deg s	Temp	72.T	60° EL
					in in	;34°t -	TI.	57.8	53.6

TRC Environmental Corp - Martin Lewis, CIR, CSP, CPEA Suffished Town Hell ING Survey

Instrument [S/N]	Test #	Dete	Start Time	Duration dd:hh:mm:ss	Average	Uni ts	Channel	Maximum	Minimum
Dust Trak	103	08/28/2015	13:25:41	0:00:04:00	0.025	mg/m/3	Aerosol	0.053	0.015
Dust Trak 85202542	200	08/28/2015	11:39:28	0:00:05:48	0.012	mg/m^3	Aeroso1	0.229	0,009
Dust Trak 85202542	600	00/28/2015	11:48:50	0:30:06:25	0.015	mq/m/3	Aerosa1	0.503	0,008
Dust Trak 85202342	700	08/28/2015	11:57:46	0:00:06:52	0.013	ng/m^3	Aerosol	0.203	\$00.0
Dust Trak 85202542	005	08/28/2015	12:08:00	0:00:09:24	0.011	mg/m/3	Mercacol	0.102	T00.0
Dust Trak 85202542	900	08/28/2015	12:21:41	0:00:06:33	6.075	E_@/b#	Merosol	7.347	0.007
Dust Trak 85202542	500	08/20/2015	12:37:14	0:00:07:42	0.008	mg/m^3	Aerosol	0.028	0.007
Dust Trak 85202542	008	08/28/2015	12:49:31	0:00:08:50	0.011	E_m/bu	Aerosol	0.185	0.006

TRC Environmental Corporation - Martin Lewis, CIA, CSP, CPEA Toom Hall Parks & Rec Office INQ Survey

Instrument [S/N]	Test #	Date	Start Time	Daration dd:hh:mm:ss	Average	Una ta	Channe1	Maximum	Minimum
Q-Trak with CO	001	69/11/2015	11:05:15	0:00:08:17	E 65	H.d.d	202	6 F F	418
					· -1	wdd	တ	-	៊ក
Handle Ha			**************************************			deg F	Temp	42.57	6.6 6.0
Association and an arrangement of the second	MANAGAMAN AND AND AND AND AND AND AND AND AND A				71.0	퍙	다	72.9	58. 58.
0-72ak with CO	200	09/11/2015	11:19:00	0:00:08:19	548	indiri.	202	රේශීය	603
The state of the s	or reversité des suits de la fait		description to National Property and the Control of		r	Eddi	00	ş-d	0
		To the state of th			13.1	H Dap	Temp	73.5	72,4
	100 100 100 100 100 100 100 100 100 100	***************************************			61.8	ा अपूर्ण	ri.	65. E. S	٠٠ ٢٠
O-Trak with CO 50342	E00	09/11/2015	735.7	ດ: ດວ: ທຣະດວ	790	wdc	200	940	742
The second secon					, - 1	wda	95	H	O
			A A P A A A A A A A A A A A A A A A A A	artisticische Particonomicanom	હ્યું ::-i f~	deg F	Temp	72,9	70.3
					54.7	-	r. u	24.3	m m
Q-Trak with CC 50342	004	09/11/2015	13:42:20	0:00:03:23	624	ಲದದೆ.	003	664	හ ආ ආ
A CONTRACTOR OF THE PROPERTY O	To be a second or second o			- A Misselin	r-1	ည်င်	00	,-4	٥
Conjugation				di inggari kangari	72.2	g bap	Temp	72.3	72.0
20000000000000000000000000000000000000			AAAAA VII JAJA AAAAAAAAAAAAAAAAAAAAAAAAA			**	r,	e	64.0
0-Trak with CO 50342	005	OS/II/SOIS	11:56:27	0:00:07:02	2.68	udá	202	ر ش ش	548

TRC Environmental Corporation - Martin Lewis, CIB, CSP, CPEA TAC Environmental Parks & Rec Office IAD Survey

Instrument	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
2-Trak with CO	005	09/11/5015	11:56:27	0:00:07:02	x-4	wdā	පි	r-1	0
					72.4	deg F	Temp	72.4	72.4
			1000		60.4	*	цх	61.0	0.83 0.83

TRC Environmental Corporation - Martin Lewis, CIH, CSP, CPER.

Instrument [S/N]	Test #	Date	Start Time	Duration dd:bh:mm:ss	Awaraga Units	Units	Channel	Maximum	Minimum
Dust Trek 23180	100	09/11/2015	11:04:00	0:00:09:23	0.003	ng/m^3	Aerosol	0.053	0.003
Dust Trak 23780	200	09/11/2015	11:17:46	0:00:08:29	0.013	mg/m^3	Aerosol	1.396	0.004
Dust Trak 23780	003	09/11/2015	11:30:48	0:00:00:34	0.013	mg/m^3	herosol	0.138	0.004
Dust Trak 23780	004	09/11/2015	11:41:16	D:00:14:03	0.010	mg/m^3	Aeroso1	0.297	0.003
Dust, Trak 23780	0.05	09/11/2015	11:55:40	0:00:06:46	0.007	mg/m^3	Aerosol	0.112	0.003

MI5
wind
wind 87°F 400° RH
T
CT
1
fice

all protincter readings in green of < 10% W.ME. no active moisture intraciona observed

OTRC

SUBJECT NO. 242843

PROJECT NO. 242843

ON 11:03 for 1 O Track 8551 80342 Dust rak 8520 23780

21460379 5 min @ 151pm. Ambient East Wall

02 11:17 ford Hours favel Copies Room, - acting leak.
A/C or A/C or WME 43,970

03 11:31 forg 3 Porlect Rec Main Office Deck

A/C or A/C or Office Deck

21460297 Parlect Rec Supervisor Office Deck

A/C or Miss forg 5 Storage forker asea

21460369 Storage forker asea





































