

January 31, 2022

Mr. Michael Lane Environmental Health & Safety Manager Office of Court Management/ Facilities Management & Court Capital Massachusetts Superior Courts Lowell Justice Center 370 Jackson Street Lowell, MA 01852 MAIN OFFICE:

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www.axiomenv.com

VIA EMAIL

AXIOM Project 01275.008

RE: Indoor Air Quality Testing, 80 State Street, Springfield, MA

Dear Mr. Lane,

At your request, Axiom Partners, Inc. (AXIOM) performed indoor air quality (IAQ) testing in the referenced superior courthouse building. The testing was performed on January 13, 2022, by AXIOM Industrial Hygienist, Michael Keady and consisted of the following:

I. INDOOR AIR TESTING AND OBSERVATIONS

1. Visual Assessment of Interior Spaces

AXIOM performed a general inspection of the interior spaces for visible signs of potential water damage or mold/fungal growth. This did <u>not</u> include above ceiling spaces and HVAC equipment.

2. General Air Quality Testing Parameters

AXIOM performed testing of indoor air quality parameters throughout the building using a direct reading Q-Trak[®] IAQ Monitor which continuously measures and records levels of carbon monoxide (CO), carbon dioxide (CO₂), temperature and relative humidity (rH).

AXIOM positioned the Q-Trak in 31 locations over the course of the day, with run times in each location ranging between 10 and 20 minutes. Locations were chosen to represent general air quality and the locations are documented on the attached floor plans.

Results are compared with established indoor air quality guidelines which are used to assess the adequacy of indoor air quality and ventilation.

3. Air Testing for Volatile Organic Compounds (VOCs)

A calibrated TSI GM460 Gas Monitor was used to take real-time spot readings for VOCs¹ in multiple locations throughout the building. The GM460 is a hand-held device that detects and measures more than 600 of the most common VOCs and has a lower detection limit of 1.0 ppb.

¹ Includes a library of over 600 common VOCs

Mr. Michael Lane January 31, 2022 Page 2 of 4

The screening locations and associated Gas Monitor responses were be recorded on an indoor air sampling form. The locations mimicked the Q-Trak sampling locations.

4. Air Testing for Total Dust

AXIOM performed continuous dust monitoring throughout the building using a direct-reading SidePak AM520 dust monitor. This portable unit measured and recorded total dust concentrations.

The SidePak[™] Personal Aerosol Monitor AM520i is a portable, battery-operated, data-logging, device that provides real-time aerosol mass concentration readings of dusts, fumes, mists, smoke and fog.

AXIOM periodically moved the SidePak unit throughout the building mimicking the Q-Trak and Gas Monitor sampling locations.

5. Air Testing for Non-Culturable Mold (Fungi)

AXIOM also collect air samples for direct optical examination for mold and fungal spores using Allergenco-D air sampling cassettes which are used for the rapid collection and analysis of a wide range of airborne aerosols, including fungal spores, pollen, insect parts, skin cell fragments, fibers, and inorganic particulates. AXIOM collected 8 air samples from inside the building and 2 outdoor baseline/control samples (10 total samples).

The air samples were analyzed by EMSL Analytical, inc. (EMSL) located in Woburn, MA. EMSL is accredited under the American Industrial Hygiene Association (AIHA) for fungal analysis. A chain-of-custody form was used to document sample handling and to specify analytical requirements.

II. SUMMARY OF INDOOR AIR TESTING

1. Observations

During the course of performing the air testing, AXIOM inspected interior spaces in the building and made the following observations:

- 1. Most areas in the building appeared to be relatively clean
- 2. No visible signs and no odors associated with mold/fungi were noted in the building
- 3. Water-stained ceiling tiles were observed in various locations throughout the building
- 4. As previously reported, there was visible signs of water damage on paper boxes in the basement file storage room
- 5. As previously reported, there were numerous areas with dirty HVAC diffusers and adjacent ceiling tiles
- 6. As previously reported, some unidentified stains were observed on carpets in some offices (possibly from drink/coffee spills)

2. General Air Quality Testing Parameters, VOCs and Total Dust

Table 1 provides a summary of the Q-Trak, SidePak and GM460 indoor air quality testing. In addition to our IH taking regular measurements and recording them on a field form, the Q-Trak and SidePak units operated in the data logging mode where it recorded and logged readings every 60 seconds throughout the sampling period. The GM460 is an automatic datalogging device that collects readings every 5 minutes when operational.



| TABLE 1 | | | | | | |
|--|--|--|--|--|--|--|
| SUMMARY OF Q-TRAK, SIDEPAK AND GM460 TESTING RESULTS | | | | | | |

| AIR QUALITY PARAMETER | MINIMUM / MAXIMUM OF MEASURED VALUES | AVERAGE OF MEASURED VALUES | GUIDELINES |
|-------------------------------------|---|----------------------------------|--|
| Temperature (T) | 64.4 / 79.1 °F | 72.1 °F | 68 – 75 °F ^{a,b} 73 – 79 °F (summer) |
| Relative Humidity (rH) | 15.5 / 30.6 % | 19.3 % | 30 – 60% ^{a,b} |
| Carbon Dioxide (CO ₂) | 557 / 894 ppm | 658 ppm | <u><</u> 800 ppm ^{b,c} |
| Carbon Monoxide (CO) | 0.0 / 0.7 ppm | 0.1 ppm | 9 ppm ^{a,b} /50 ppm ^d |
| Volatile Organic Compounds (VOC) | 0 / 204 ppb | 8 ppb | 300 ppb ^{b, e} |
| Total Airborne Particulate | 0.001 / 0.049 mg/m ³ | 0.015 mg/m ³ | 15.0 mg/m³/5 ^d |

^a ASHRAE 55-2013 Std. (American Society of Heating, Refrigerating & Air Conditioning Engineers).

^b < means less than or equal to, °F = degrees Fahrenheit, % = percent, ppm = parts per million, mg/m³ = milligrams per cubic meter; TWA = Time Weighted Average over 8-hours

^c Occupational Safety & Health Administration (OSHA) proposed indoor air quality (IAQ) rule (59 FR 15968).

^d OSHA (Occupational Safety and Health Administration) Permissible Exposure Limit.

^e Refer to attached Total VOC summary table in Attachment 6.

Attachment 1 includes the field recording forms. The Q-Trak and SidePak data summaries and graphs are provided in Attachment 2.

4. Air Testing for Non-Culturable Mold (Fungi)

Table 4 provides a summary of the spore trap air sampling results, and the complete lab report are provided in Attachment 3.

| SAMPLE NUMBER | LOCATION | TOTAL FUNGI (S/m ³) ¹ | MOLD SPORE TYPE |
|------------------|--------------------------------------|---|----------------------------|
| 4509189 | Lounge 307 | 0 | None Detected |
| 4509174 | Stairwell Outside 321 | 0 | None Detected |
| 4509104 | Juvenile Courtroom 2 | 0 | None Detected |
| 4509187 | Housing, Jury Deliberation Room 208 | 0 | None Detected |
| 4509183 | B58, File Storage | 0 | None Detected |
| 4509121 | B30, Conference Room | 0 | None Detected |
| 4509107 | Housing Court Stairwell | 40 | Myxomycetes |
| 4509193 | Juvenile Court 3 | 40 | Basidiospores |
| 4509191 | Building Exterior, Juvenile Entrance | 80 | Basidiospores, Fusarium |
| 4509190 | Building Exterior, Housing Entrance | 80 | Basidiospores, Myxomycetes |

 TABLE 4

 SUMMARY OF AIRBORNE FUNGAL SPORE TESTING RESULTS

 1 S/m³ = spore counts per cubic meter of air

Airborne fungi below 250 S/m³ are normally not a concern for indoor environments². Airborne levels outdoors are normally between 500 and 1,000 S/m³ but can easily exceed 10,000 S/m³ during the spring and summer



² New York Committee for Occupational Safety and Health

Mr. Michael Lane January 31, 2022 Page 4 of 4 Indoor Air Quality Testing Massachusetts Superior Courthouse 80 State St., Springfield, MA

months. Indoor airborne levels between 250 and 1,000 S/m³ are typically considered to be moderate and levels that exceed 1,000 S/m³ are often considered elevated³ and may result in active mold growth.

It is important to note that bioaerosols (fungi/mold) are <u>always</u> present and it is the excess quantity of microorganisms that can be of concern. By comparing the microbiological profiles of indoor sample results to outside samples, it is often possible to determine if amplification of microorganisms is occurring within the building.

Comparing the microbial profiles of the air samples, AXIOM has concluded that the airborne fungal spore levels on the days of the sampling were not elevated, and amplification was not occurring.

III. CONCLUSIONS

In summary, based on the results of the air quality testing described herein, AXIOM did not identify any air quality conditions or levels for measured parameters that were significantly outside acceptable levels of indoor air quality.

Although the TVOC levels are considered acceptable, it should be noted that as a result of increased cleaning and sanitizing inside building due to Covid-19, reports of higher-than-normal levels of VOCs inside buildings have been on the rise.

Please do not hesitate to contact us if you have any questions.

Sincerely,

Evan MacArthur Project Manager/Sr. IH

E S. Mu

Stephen E. Minassian Principal

Zdala

Edward K. Kearney, CIH

Attachments: A1, Field data forms

- A2, Direct Read Instrument Reports
- A3, Fungi/mold testing report
- A4, Sample location floor plans
- A5, TVOC reference table

³ Occupational Safety and Health Administration Technical Manual, Section III, Chapter 2, § IV (c)



FIELD DATA FORMS

IAQ READINGS

Date: Project No.: Industrial Hygienist(s): 01/13/22 01275.008 Michael Keady
 Location:
 80 State St, Springfield MA

 Project Name:
 Air Quality Investigation,

 Springfield Hall of Justice

| Тіме | LOCATION | Темр (°F) | RH (%) | CO ₂ (PPM) | CO (PPM) | VOCS (PPB) | PART. (MG/M ³) |
|------|--|-----------------------------|--------|--------------------------|-------------|---------------|-------------------------------|
| 0716 | 3 rd Floor, Room 321 | 64.6 | 29.6 | 972 | 0.2 | 0 | 0.013 |
| 0729 | 3 rd Floor, Lounge 307 | 70.1 | 21.3 | 657 | 0.5 | 0 | 0.025 |
| 0742 | 3 rd Floor, Housing Specialists, Room 305 | 70.2 | 19.4 | 572 | 0.1 | 0 | 0.010 |
| 0753 | 3 rd Floor, Stairwell by Room 321 | 74.5 | 17.3 | 667 | 0.3 | 1 | 0.021 |
| 0806 | 3 rd Floor, Juvenile Court Clinic 328 | 72.1 | 18.4 | 593 | 0.1 | 2 | 0.014 |
| 0820 | 3 rd Floor, Juvenile Court Probation Department | 75.3 | 17.8 | 633 | 0.3 | 8 | 0.010 |
| 0835 | 3 rd Floor, Room 346, Juvenile Court Department Probation Office | 71.7 | 19.4 | 722 | 0.1 | 9 | 0.010 |
| 0850 | 3 rd Floor, Juvenile Court, Employee Lounge 336 | 71.4 | 19.8 | 663 | 0.1 | 8 | 0.010 |
| 0903 | 2 nd Floor, Juvenile Court, Main Elevator Lobby | 70.3 | 19.1 | 646 | 0.1 | 5 | 0.024 |
| 0923 | 2 nd Floor, Hall by Room 259 | 71.6 | 20.2 | 933 | 0.2 | 9 | 0.00 |
| 0937 | 2 nd Floor, Housing Court, Judges Lobby 232 | 72.3 | 19.3 | 713 | 0.1 | 9 | 0.003 |
| 0950 | 2 nd Floor, Juvenile Courtroom 2 | 74.7 | 16.5 | 618 | 0.2 | 8 | 0.010 |
| 1005 | 2 nd Floor, Hall by Juvenile Courtroom 2 | 73.5 | 16.9 | 639 | 0.1 | 9 | 0.014 |
| 1020 | 2 nd Floor, Housing Court, Conference Room 220 | 78.4 | 16.3 | 682 | 0.2 | 15 | 0.009 |
| 1035 | 2 nd Floor, Housing Court, Jury Deliberation Room 208 | 73.0 | 18.8 | 673 | 0.1 | 14 | 0.001 |
| 1050 | 2 nd Floor, Stairs Outside Housing Courtroom 1 | 79.2 | 15.4 | 666 | 0.2 | 21 | 0.003 |
| 1105 | Basement, B58 File Storage | 64.5 | 22.7 | 653 | 0.1 | 7 | 0.050 |
| 1124 | Basement, B39 Juvenile Lockup | 70.2 | 22.2 | 779 | 0.2 | 11 | 0.021 |
| 1139 | Basement, B51 Juvenile Lockup | 70.5 | 20.9 | 647 | 0.1 | 9 | 0.020 |
| 1154 | Basement, B21 Juvenile Secretary | 71.4 | 19.6 | 671 | 0.1 | 5 | 0.014 |
| 1209 | Basement, B30 Conference Room | 72.0 | 19.3 | 692 | 0.1 | 5 | 0.007 |
| 1223 | Basement, B33 Parole Office | 72.9 | 19.2 | 696 | 0.1 | 6 | 0.018 |
| 1238 | Basement, B12 Lobby Next to District Attorneys Office | 73.4 | 19.9 | 700 | 0.1 | 14 | 0.026 |
| 1251 | Basement, B04 Storage | 65.8 | 24.5 | 589 | 0.0 | 3 | 0.031 |

°F = degrees Fahrenheit; % = percent; ppm = parts per million, mg/m³ = milligrams per cubic meter



IAQ READINGS

Date: Project No.: Industrial Hygienist(s): 01/13/22 01275.008 Michael Keady Location:80 State St, Springfield MAProject Name:Air Quality Investigation,
Springfield Hall of Justice

| Тіме | LOCATION | Темр (°F) | RH (%) | CO ₂ (PPM) | CO (PPM) | VOCS (PPB) | PART. (MG/M ³) |
|------|--|-----------------------------|--------|--------------------------|-------------|---------------|-------------------------------|
| 1310 | 1 st Floor, Housing Court Department Stairwell | 72.9 | 20.5 | 773 | 0.1 | 14 | 0.013 |
| 1322 | 1 st Floor, Employee Lounge 126 | 74.0 | 18.7 | 731 | 0.1 | 10 | 0.018 |
| 1335 | 1 st Floor, Juvenile Courtroom 2 | 72.2 | 19.2 | 623 | 0.1 | 9 | 0.021 |
| 1350 | 1 st Floor, Juvenile Courtroom 3 | 77.7 | 17.4 | 699 | 0.1 | 14 | 0.008 |
| 1405 | 1 st Floor, Lobby Outside Clerk Magistrates Office | 72.6 | 19.2 | 676 | 0.1 | 13 | 0.015 |
| 1420 | 1 st Floor, Juvenile Court Clerk's Office | 72.2 | 18.7 | 654 | 0.1 | 9 | 0.013 |
| 1437 | 1st Floor, Juvenile Waiting Room | 69.5 | 20.9 | 684 | 0.1 | 7 | 0.007 |

°F = degrees Fahrenheit; % = percent; ppm = parts per million, mg/m³ = milligrams per cubic meter



Q-TRAK SUMMARY REPORT & GRAPH, SIDEPAK PARTICULATE REPORT & GRAPH GM460 SUMMARY REPORT & GRAPH

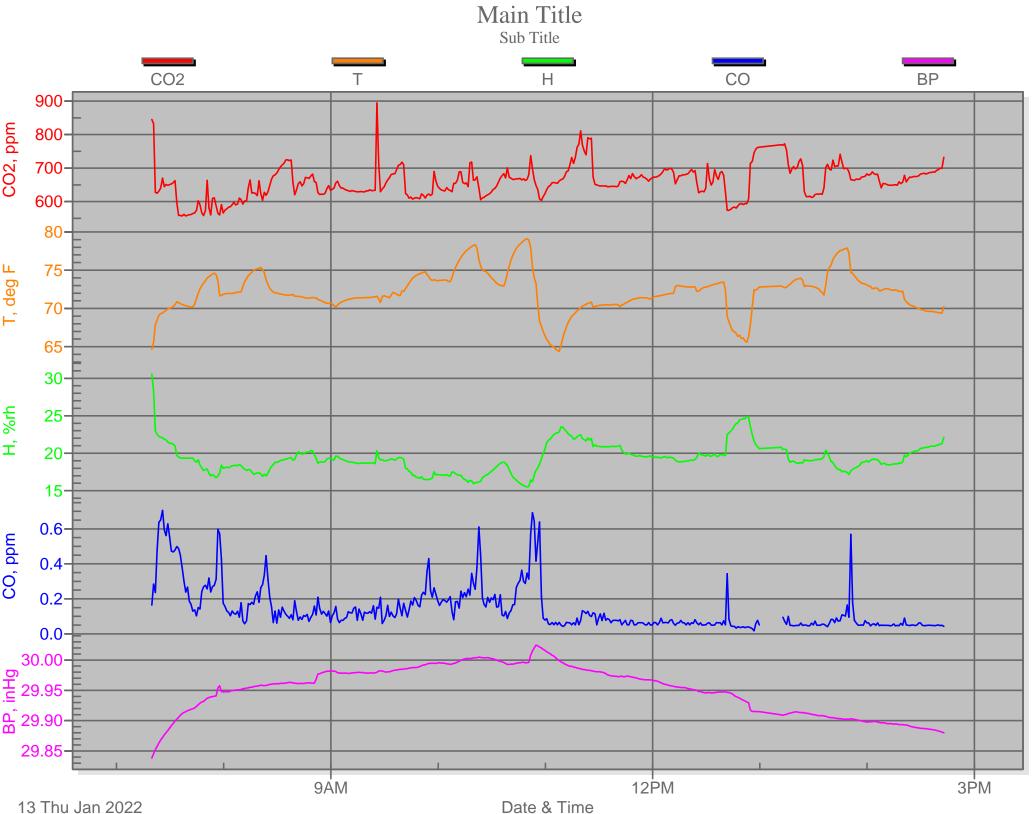


Test 004

Test 004

| | Instrument | Data Properties | | |
|----------------|------------------------|------------------|------------|--|
| Model | VelociCalc/Q-Trak 7575 | Start Date | 01/13/2022 | |
| Meter S/N | 7575X1910009 | Start Time | 07:18:44 | |
| Probe Model | 982 | Stop Date | 01/13/2022 | |
| Probe S/N | P19140039 | Stop Time | 14:42:53 | |
| Meter Cal Date | 03/06/2019 | Total Time | 0:07:24:09 | |
| | | Logging Interval | 60 seconds | |

| | Statistics | | | | | | | | |
|----------------|------------|------------|------------|------------|------------|--|--|--|--|
| | CO2 | Т | Н | СО | BP | | | | |
| Avg | 658 ppm | 72.1 deg F | 19.3 %rh | 0.1 ppm | 29.95 inHg | | | | |
| Max | 894 ppm | 79.1 deg F | 30.6 %rh | 0.7 ppm | 30.02 inHg | | | | |
| Max Date | 01/13/2022 | 01/13/2022 | 01/13/2022 | 01/13/2022 | 01/13/2022 | | | | |
| Max Time | 09:25:44 | 10:49:44 | 07:19:44 | 07:25:44 | 10:54:44 | | | | |
| Min | 557 ppm | 64.4 deg F | 15.5 %rh | 0.0 ppm | 29.84 inHg | | | | |
| Min Date | 01/13/2022 | 01/13/2022 | 01/13/2022 | 01/13/2022 | 01/13/2022 | | | | |
| Min Time | 07:38:44 | 11:07:44 | 10:49:44 | 12:56:44 | 07:19:44 | | | | |
| TWA (8 hr) | 593 | | | 0.1 | | | | | |
| TWA Start Date | 01/13/2022 | | | 01/13/2022 | | | | | |
| TWA Start Time | 07:18:44 | | | 07:18:44 | | | | | |
| TWA End Time | 14:42:53 | | | 14:42:53 | | | | | |





1/13/22 Report

Name: 1/13/22

Description: Aerosol Data

Location: 80 State St Springfield MA

Instrument Name: SidePak Aerosol Monitor

Device Model Number: AM520

Device Serial Number: 5201834010

Firmware Version: A.08

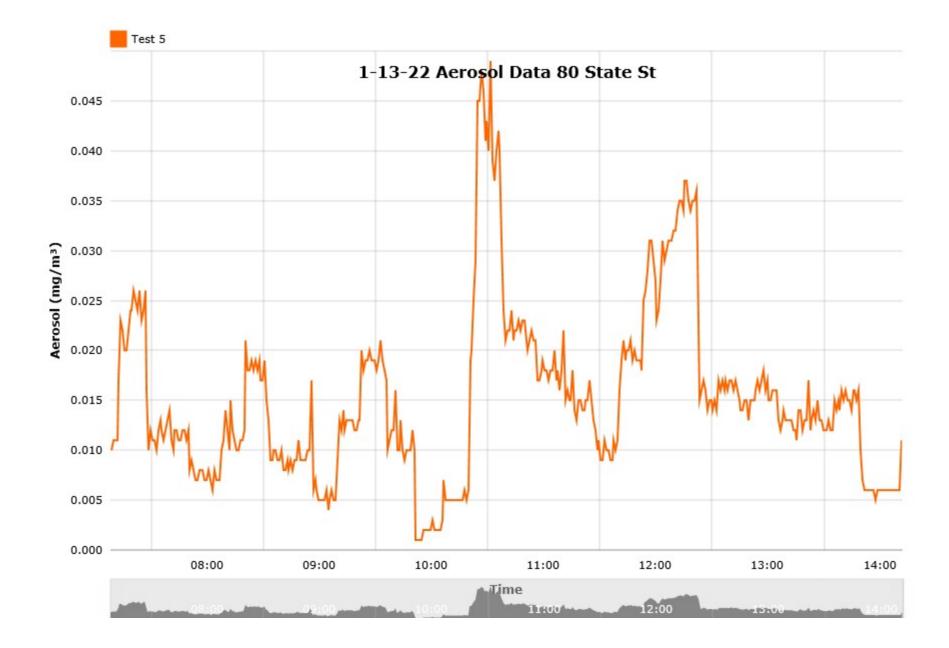
Last Factory Calibration: 3/12/2021

| Data Properties | | | | | | | |
|-----------------------|--------------|--|--|--|--|--|--|
| Start Date | 1/13/2022 | | | | | | |
| Start Time | 7:37 AM | | | | | | |
| End Date | 1/13/2022 | | | | | | |
| End Time | 2:41 PM | | | | | | |
| Test Length | 00:07:04:00 | | | | | | |
| Logging Interval | 60 second(s) | | | | | | |
| Number of Data Points | 424 | | | | | | |

Additional Information

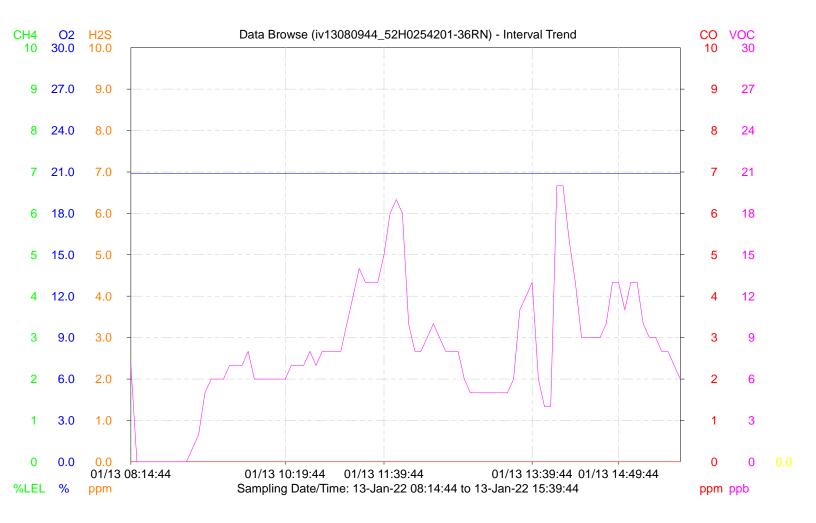
There is no metadata related to this test

| Test Statistics | | | | | | | | | |
|------------------------------|---------------------------------------|------------|------------|------------|-------|--|--|--|--|
| Channel | Average Minimum Maximum Cal Factor TV | | | | | | | | |
| | | 0.001 | 0.049 | 1 | | | | | |
| Aerosol (mg/m ³) | 0.015 | 01/13/2022 | 01/13/2022 | Factory | 0.013 | | | | |
| | | 10:24:15 | 11:01:15 | 12/30/2021 | | | | | |



GM460 Data Logger (Interval Trend)

| Property | Value | | | | | |
|--|--|------------------------------------|---------------------------|-------------------------|---------------------------|--------|
| Name Sampling Date/Time Serial No. Station ID User ID Data Count Interval Time (sec) | iv13080944_52H0 1/13/2022 8:09:44 52H0254201-36R STATION_ID_001 USER_ID_001 90 300 | AM to 1/13/2022 | 3:42:23 PM | | | |
| Gas(FullScale) Avg | CH4(100%LEL) 0 %LEL | O2(40.0%) 20.9 % | H2S(100.0ppm) 0.0 ppm | CO(500ppm) 0 ppm | VOC(50000ppb) 8 ppb | () |
| Max Max Date/Time Min | 0 %LEL 01/13 08:09:44 | 20.9 % 01/13 08:09:44 20.9 % | 0.0 ppm 01/13 08:09:44 | 0 ppm 01/13 08:09:44 | 204 ppb 01/13 08:09:44 | |
| Min Date/Time | ***** 10 %LEL | 20.9 % 01/13 08:09:44 19.5 % | ***** 5 0 ppm | ***** | ***** | |
| Warning Alarm | 50 %LEL | 23.5 % | 5.0 ppm 30.0 ppm | 25 ppm 50 ppm | 5000 ppb 10000 ppb | |
| STEL TWA | **** | **** | 5.0 ppm 1.0 ppm | 200 ppm 25 ppm | **** | |





EMSL MOLD AIR SAMPLING LABORATORY REPORT





EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801 Tel/Fax: (781) 933-8411 / (781) 933-8412 http://www.EMSL.com / bostonlab@emsl.com

| Attention: | Michael Keady | Phone: | (781) 213-9198 |
|------------|-----------------------------|-----------------------|----------------|
| | Axiom Partners, Inc. | Fax: | (781) 213-6992 |
| | 50B Salem Street, Suite 103 | Collected Date: | 01/13/2022 |
| | Lynnfield, MA 01940 | Received Date: | 01/14/2022 |
| | | Analyzed Date: | 01/21/2022 |

Project: 80 State Street

| Lab Sample Number: Client Sample ID: Volume (L): Sample Location: | 4509189 75 | | | 132200377-0002 4509174 75 Stairwell Outside 321 | | | 132200377-0003 4509104 75 Juvenile Courtroom 2 | | |
|--|---------------|----------------------|------------|--|----------------------|------------|---|----------------------|------------|
| Spore Types | Raw Count | Count/m ³ | % of Total | Raw Count | Count/m ³ | % of Total | Raw Count | Count/m ³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - |
| Ascospores | - | - | - | - | - | - | - | - | - |
| Aspergillus/Penicillium | - | - | - | - | - | - | - | - | - |
| Basidiospores | - | - | - | - | - | - | - | - | - |
| Bipolaris++ | - | - | - | - | - | - | - | - | - |
| Chaetomium++ | - | - | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | - | - | - | - | - | - |
| Curvularia | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - |
| Fusarium++ | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | - | - | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - |
| Total Fungi | - | None Detected | - | - | None Detected | - | - | None Detected | - |
| Hyphal Fragment | - | - | - | - | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 43 | - | - | 43 | - | - | 43 | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - |
| Skin Fragments (1-4) | - | 1 | - | - | 1 | - | - | - | - |
| Fibrous Particulate (1-4) | - | - | - | - | 1 | - | - | - | - |
| Background (1-5) | - | 1 | - | - | 1 | - | - | 1 | - |

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

the P.A

No discernable field blank was submitted with this group of samples.

Steve Grise, Laboratory Manager or other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report relates the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. High levels of background particulate can obscure spores and other particulates, leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification.

Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. *** Denotes particles found at 300X. "-" Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA-LAP, LLC-EMLAP Accredited #180179

Initial report from: 01/21/2022 09:07 AM

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com



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EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801 Tel/Fax: (781) 933-8411 / (781) 933-8412 http://www.EMSL.com / bostonlab@emsl.com

| Attention: | Michael Keady | Phone: | (781) 213-9198 |
|------------|-----------------------------|-----------------------|----------------|
| | Axiom Partners, Inc. | Fax: | (781) 213-6992 |
| | 50B Salem Street, Suite 103 | Collected Date: | 01/13/2022 |
| | Lynnfield, MA 01940 | Received Date: | 01/14/2022 |
| | | Analyzed Date: | 01/21/2022 |
| | | | |

Project: 80 State Street

| Lab Sample Number: Client Sample ID: | 1 | 32200377-0004 4509187 | | 1 | 32200377-0005 4509183 | | 132200377-0006 4509121 | | | |
|---|-------------|--------------------------|------------|-----------|--------------------------|------------|---------------------------|----------------------|------------|--|
| Volume (L): | | 75 | | | 75 | | | 75 | | |
| Sample Location: | Housing, Ju | ury Deliberation | Room 208 | В | 58, File Storage | | B30, | Conference Roo | om | |
| Spore Types | Raw Count | Count/m ³ | % of Total | Raw Count | Count/m ³ | % of Total | Raw Count | Count/m ³ | % of Total | |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - | |
| Ascospores | - | - | - | - | - | - | - | - | - | |
| Aspergillus/Penicillium | - | - | - | - | - | - | - | - | - | |
| Basidiospores | - | - | - | - | - | - | - | - | - | |
| Bipolaris++ | - | - | - | - | - | - | - | - | - | |
| Chaetomium++ | - | - | - | - | - | - | - | - | - | |
| Cladosporium | - | - | - | - | - | - | - | - | - | |
| Curvularia | - | - | - | - | - | - | - | - | - | |
| Epicoccum | - | - | - | - | - | - | - | - | - | |
| Fusarium++ | - | - | - | - | - | - | - | - | - | |
| Ganoderma | - | - | - | - | - | - | - | - | - | |
| Myxomycetes++ | - | - | - | - | - | - | - | - | - | |
| Pithomyces++ | - | - | - | - | - | - | - | - | - | |
| Rust | - | - | - | - | - | - | - | - | - | |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - | |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - | |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - | |
| Zygomycetes | - | - | - | - | - | - | - | - | - | |
| Total Fungi | - | None Detected | - | - | None Detected | - | - | None Detected | - | |
| Hyphal Fragment | - | - | - | - | - | - | - | - | - | |
| Insect Fragment | - | - | - | - | - | - | - | - | - | |
| Pollen | - | - | - | - | - | - | - | - | - | |
| Analyt. Sensitivity 600x | - | 43 | - | - | 43 | - | - | 43 | - | |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - | |
| Skin Fragments (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | |
| Fibrous Particulate (1-4) | - | 1 | - | - | - | - | - | 1 | - | |
| Background (1-5) | - | 1 | - | - | 1 | - | - | 1 | - | |

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

the P.J.

Steve Grise, Laboratory Manager or other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report relates the samples are received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. High levels of background particulate can obscure spores and other particulates, leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification.

High levels of background particulate can obscure spores and other particulates, leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. "*" Denotes particles found at 300X. "2 Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA-LAP, LLC-EMLAP Accredited #180179

Initial report from: 01/21/2022 09:07 AM

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com

No discernable field blank was submitted with this group of samples.



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801 Tel/Fax: (781) 933-8411 / (781) 933-8412 http://www.EMSL.com / bostonlab@emsl.com

| Attention: | Michael Keady | Phone: | (781) 213-9198 |
|------------|-----------------------------|-----------------|----------------|
| | Axiom Partners, Inc. | Fax: | (781) 213-6992 |
| | 50B Salem Street, Suite 103 | Collected Date: | 01/13/2022 |
| | Lynnfield, MA 01940 | Received Date: | 01/14/2022 |
| | | Analyzed Date: | 01/21/2022 |

Project: 80 State Street

| Lab Sample Number: Client Sample ID: Volume (L): Sample Location: | 4509107 75 | | | | 32200377-0008 4509193 75 uvenile Court 3 | | 132200377-0009 4509191 75 Building Exterior, Juvenile Entrance | | | |
|--|---------------|----------------------|------------|-----------|---|------------|---|----------------------|-----------|--|
| Spore Types | Raw Count | Count/m ³ | % of Total | Raw Count | Count/m ³ | % of Total | Raw Count | Count/m ³ | % of Tota | |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - | |
| Ascospores | - | - | - | - | - | - | - | - | - | |
| Aspergillus/Penicillium | - | - | - | - | - | - | - | - | - | |
| Basidiospores | - | - | - | 1 | 40 | 100 | 1 | 40 | 50 | |
| Bipolaris++ | - | - | - | - | - | - | - | - | - | |
| Chaetomium++ | - | - | - | - | - | - | - | - | - | |
| Cladosporium | - | - | - | - | - | - | - | - | - | |
| Curvularia | - | - | - | - | - | - | - | - | - | |
| Epicoccum | - | - | - | - | - | - | - | - | - | |
| Fusarium++ | - | - | - | - | - | - | 1 | 40 | 50 | |
| Ganoderma | - | - | - | - | - | - | - | - | - | |
| Myxomycetes++ | 1 | 40 | 100 | - | - | - | - | - | - | |
| Pithomyces++ | - | - | - | - | - | - | - | - | - | |
| Rust | - | - | - | - | - | - | - | - | - | |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - | |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - | |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - | |
| Zygomycetes | - | - | - | - | - | - | - | - | - | |
| Total Fungi | 1 | 40 | 100 | 1 | 40 | 100 | 2 | 80 | 100 | |
| Hyphal Fragment | - | - | - | - | - | - | - | - | - | |
| Insect Fragment | - | - | - | - | - | - | - | - | - | |
| Pollen | - | - | - | - | - | - | - | - | - | |
| Analyt. Sensitivity 600x | - | 43 | - | - | 43 | - | - | 43 | - | |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - | |
| Skin Fragments (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | |
| Background (1-5) | - | 1 | - | - | 1 | - | - | 1 | - | |

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

the P.J.

No discernable field blank was submitted with this group of samples.

Steve Grise, Laboratory Manager or other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA-LAP, LLC-EMLAP Accredited #180179

Initial report from: 01/21/2022 09:07 AM

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801 Tel/Fax: (781) 933-8411 / (781) 933-8412 http://www.EMSL.com / bostonlab@emsl.com

| Attention: | Michael Keady | Phone: | (781) 213-9198 |
|------------|-----------------------------|-----------------|----------------|
| | Axiom Partners, Inc. | Fax: | (781) 213-6992 |
| | 50B Salem Street, Suite 103 | Collected Date: | 01/13/2022 |
| | Lynnfield, MA 01940 | Received Date: | 01/14/2022 |
| | | Analyzed Date: | 01/21/2022 |

Project: 80 State Street

| Lab Sample Number: Client Sample ID: Volume (L): Sample Location: | | 32200377-0010 4509190 75 terior, Housing | Entrance | | | | | | |
|--|---|---|--|---|---|--|--|---|-------------------------------|
| Spore Types | Raw Count | Count/m ³ | % of Total | - | - | - | - | - | - |
| Alternaria (Ulocladium) | - | - | - | - | - | | _ | - | - |
| Ascospores | - | - | - | | | - | | | |
| Aspergillus/Penicillium | - | - | - | | | - | | | |
| Basidiospores | 1 | 40 | 50 | | | - | | | |
| Bipolaris++ | - | - | - | | | - | | | |
| Chaetomium++ | - | - | - | | | - | | | |
| Cladosporium | - | - | - | | | - | | | |
| Curvularia | - | - | - | | | - | | | |
| Epicoccum | - | - | - | | | - | | | |
| Fusarium++ | - | - | - | | | - | | | |
| Ganoderma | - | - | - | | | - | | | |
| Myxomycetes++ | 1 | 40 | 50 | | | - | | | |
| Pithomyces++ | - | - | - | | | - | | | |
| Rust | - | - | - | | | - | | | |
| Scopulariopsis/Microascus | - | - | - | | | - | | | |
| Stachybotrys/Memnoniella | - | - | - | | | - | | | |
| Unidentifiable Spores | - | - | - | | | - | | | |
| Zygomycetes | - | - | - | | | - | | | |
| Total Fungi | 2 | 80 | 100 | | | - | | | |
| Hyphal Fragment | 1 | 40 | - | | | - | | | |
| Insect Fragment | - | - | - | | | - | | | |
| Pollen | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 43 | - | - | - | - | - | - | - |
| Analyt. Sensitivity 300x | - | 13* | - | | | - | | | |
| Skin Fragments (1-4) | - | - | - | | | - | | | |
| Fibrous Particulate (1-4) | - | 1 | - | | | - | | | |
| Background (1-5) | - | 1 | - | | | | | | |
| | | | | | | | | | |
| ncludes other spores with similar mor gory. | phology; see EMS | L's fungal glossar | y for each specific | | | St | EF | : Sr | |
| scernable field blank was submitted wi | th this group of sar | nples. | | | _ | | ise, Laborate er Approved | ory Manage Signatory | r |
| SL maintains liability limited to cost of analysis ten approval by EMSL. EMSL bears no respo imes and areas, locations, etc.) provided by th n levels of background particulate can obscur sent = Spores detected on overloaded sampli OQX, "-" Denotes not detected. Due to methor | nsibility for sample co he client on the Chain e spores and other pa es. Results are not bla | llection activities or a of Custody. Samples rticulates, leading to ank corrected unless | nalytical method limitati s are within quality cont underestimation. Backg otherwise noted. The d | ons. The report re rol criteria and me ground levels of 5 etection limit is equi | flects the samples at t method specificatio indicate an overload ual to one fungal spo | s received. Results are ns unless otherwise no ng of background part | e generated from the oted. iculates, prohibiting | e field sampling data accurate detection a | ı (sampling and quantifica |

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA-LAP, LLC-EMLAP Accredited #180179

Initial report from: 01/21/2022 09:07 AM

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com

| OrderID: | 132200377 |
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| EM | SL |

Microbiology Chain of Custody Form EMSL Order Number / Lab Use Only

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

EMSL ANALYTICAL, INC.

I

132200377

PHONE: (800) 220-3675

| EMAIL: CinnMicroLab@emsi.co | μ |
|-----------------------------|---|
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| ISTING BADS - PRODUCTS - TRAIN | L | | | | | KRALTO | is the series as Rep | | -tion blan | | | icroLab@emsl.com | |
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| City, State, Zip: Ly | nficia, MA, 01940 | | Country | USA | | City, State | , Zip: | | | | | Country: | |
| Phone: 781-6 | 90-4044 | | | | 6ullia | Phone: | | | | | | | |
| Email(s) for Report: | 4 Keady @ axiomenv, (| Com | and | | | īmal(s) fo | or Invoice: | | | | | | |
| Cmadarth | vr Daxion env. cam | | | | | | | | | | | | |
| | | | | Project Info | mati | on | | | Purcha | ase | | | |
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| provide) | | Collected | : | Collec | | | | <u> </u> | mmérii - | cial (Texable) | | dential (Non-taxable) | |
| Sampled By Name: | Keady | Sampled | By Signatu | thinks | - | | | | | | No. of S In Shipn | | |
| Sterile, S | Sodium Thiosulfate Preserved Bottle U | sed; 🔲 | | ised in Sou | | | | | | | | | |
| <u> </u> | Public Water Supply Samp | | | | | | lly be reported | | | | the estimation | t be submitted by 11;30am. | |
| 3 Hour | Tutn-Around-Tim | <u>іе (</u> ТАТ) 32* на | | 48 Hou | | | and times 6 Hours or 72 Hour | | 'eve ^{gable} | / | i Week | 2 Week | |
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| M001 Air-O-Cell | M174 MoldSnap | M012 Ps | | s aerualnos | | | | | waqe S | creen - Wate | er (P/A***) | | |
| M030 Micro 5 | M032 Alergenco-D | - | | a eruginos | • | • | | | • | creen - Wate | • • | | |
| M041 Fungal Direct Examin | ation | M015 He | terotrophic | Plate Count | 1 | | | M117 Sev | vage S | creen - Swat | (P/A***) | | |
| M169 Pollen ID & Enumerat | ion | M017 To | tal Coliform | & E. Coli (| Coliler | rt P/A***) | | M013 Set | wage S | creen - Swat |) (MFT*) | | |
| M280 Dust Characterization | Level-1 | M018 To | M018 Total Coliform & E. Coli (MFT*) | | | | | | M730 Methic@in-resistant Staph, eureus (MRSA) | | | | |
| M281 Dust Characterization | | 1 | I Total Coliform & E. Coli Enumeration (Colifert MPN**) M031 Rapid-growing non-TB Mycobacteria Detection & Enumeration | | | | | | ta Detection & | | | | |
| M005 Viable Fungi-Air Semp | • • | | | 1 (MFT*) | | | | | | | | | |
| Cladosporium, Stachybotrys | oles (Includes Penicilium, Aspergilius, Postecies ID & Count) | | • | COCCUS (MF | ·T") | | | M014 En | | - | | ab Durat Miles | |
| | ace Samples (Genus ID & Count) | | | | | | | | 44 Group Allergen (Cat, Dog, Cockroach, Dust Mite) 95 Bacteroides | | | | |
| - | ace Samples (Includes Penicilium, | M180 Real Time gPCR-ERMI 36 Panel | | | | | | Other - See Analylical Price Guide for Test Code | | | | | |
| | Stachybotrys Species ID & Count) | | 025 Sewage Screen - Water (MFT*) Legionella Analysis Please use EMSL Legionelle COC | | | | | | | | | | |
| M009 Bacteria Culture Gran | n Stain & Count | [•] MFT= N | lembrane F | Iltration Tec | hniqua | | | | | | | | |
| M010 Bactena Count & ID - | 3 Most Prominent | MPN = | Most Proba | able Numbe | er - | | | | | | | | |
| M011 Bacteria Count & ID - | 5 Most Prominent | ***P/A = | Presence/A | bsence | | | | | | | | | |
| Sample # | Sample Location/Description | | ole Type atrix) | Potable / Potable Wa | | | Test Code | Volume/Ar | ea [| Date / Time | Collected | Temperature (Lab Use Only) | |
| Example: Sample 1 | Kitchen | w | ater | Po | tablə | | M017 | 1,000 m | | 1/1/2021 | 3:30pm | 1 | |
| 4509 189 | Lounge 307 | A | | | | | M032 | 75 | L | 1/13/22 | 7:05 | | |
| 4509174 | Lounge 307 Stairweil Outside Jusen Court room 2 | | | | | | | | | | 7:50 | | |
| 4509104 | | | | | | | | | | | 9:45 | | |
| 4509 187 | Housing, Jory Delibert | han | | | | | | | | | 10:31 | | |
| 4509 183 | B58, File Storage | c | | | | | | | | | 11:00 | | |
| 4509121 B30, Conference | | | | | _ | | V _ | - V | - | $\sqrt{-1}$ | 12:05 | | |
| | Special Instructions and/or Reg | ulatory Re | quirements | (Sample S | pecific | cations, P | rocessing Meth | ods, Limits of I | Detectio | on, etc.) | | | |
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| Controlled Document - COC-34 Micr | n R13 03/02/2021 | AGREET | O ELECTRO | DNIC SIGNA | TURE | (By check | ing, I consent to | signing this Cha | n of Cu | stody docume | nt by electron | lic signature.) | |
| EMSL Analytical, Inc.'s | Laboratory Terms and Conditions are | lncorpora | ated Into th | ls Chain o | f Cust | tody by r | eference in the | eir entirety. S | ubmiss | lon of samp | oles to EMS | L Analytical, Inc. | |

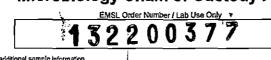
constitutes acceptance and acknowledgment of all terms and conditions by Customer. 2

OrderID: 132200377



Microbiology Chain of Custody Form

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077



PHONE: (800) 220-3675 EMAIL: CinnMicroLab@emsl.com

| Additional Pages of the Chain of Cus | tody are only necessary if needed for additional samp! | e information | | | | | | |
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| | Special Instructions and/or Reg | ulatory Requirements | (Sample Specificat | ions, Processing Me | hods, Limits of Detec | tion, etc.) | | |
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| 4509190 | Building Exterior, | | | | | | 15:05 | |
| | Building Exterior Juvanile Entrance Building Exterior Housing coffee | | _ | | <u> </u> | <u> </u> | 1 | |
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| | chael Keady | 1-11- | 198:00 | Ę | MSL-BOSTON | | | |
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| Controlled Document - COC-34 Micr | o R13 3/02/2021 | | | | signing this Chain of C | | | |
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| EMSL Analy | tical, Inc.'s Laboratory Terms and Cond | uuons are incorpora | neo into this Chair | n of Custody by refe | rence in their entire | ny. Submiss | ion of sample | s IO EMSL |

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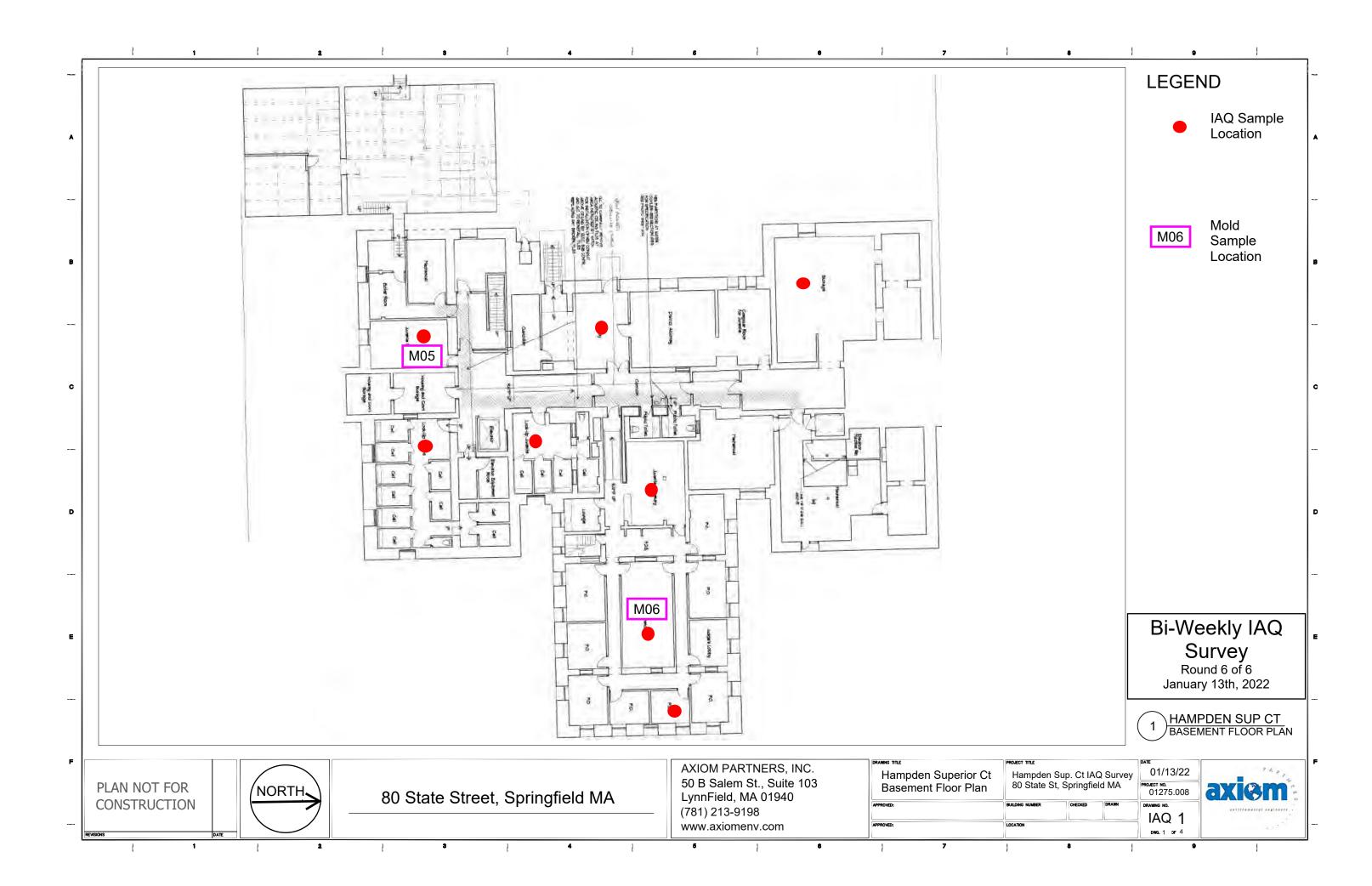
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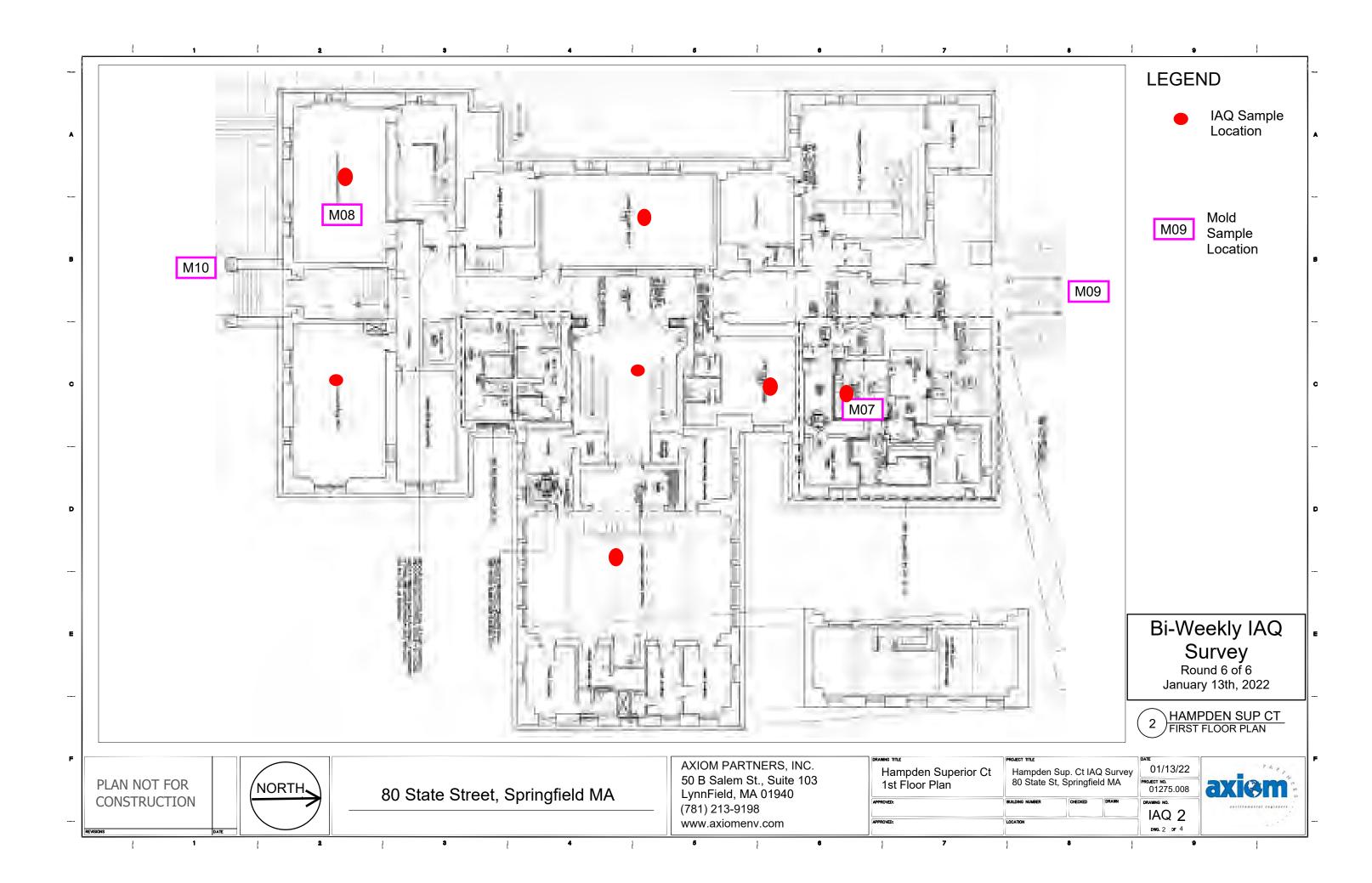
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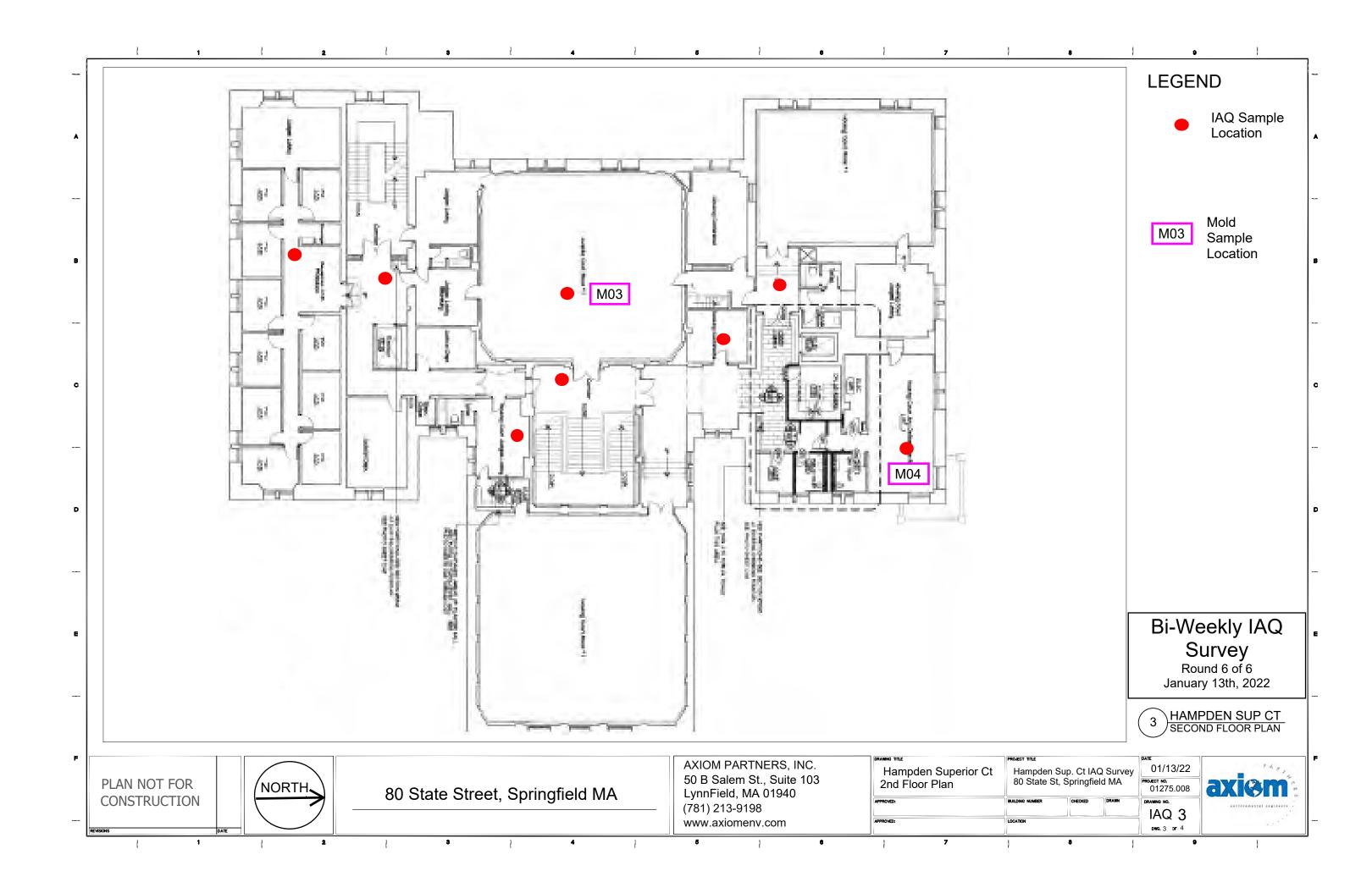


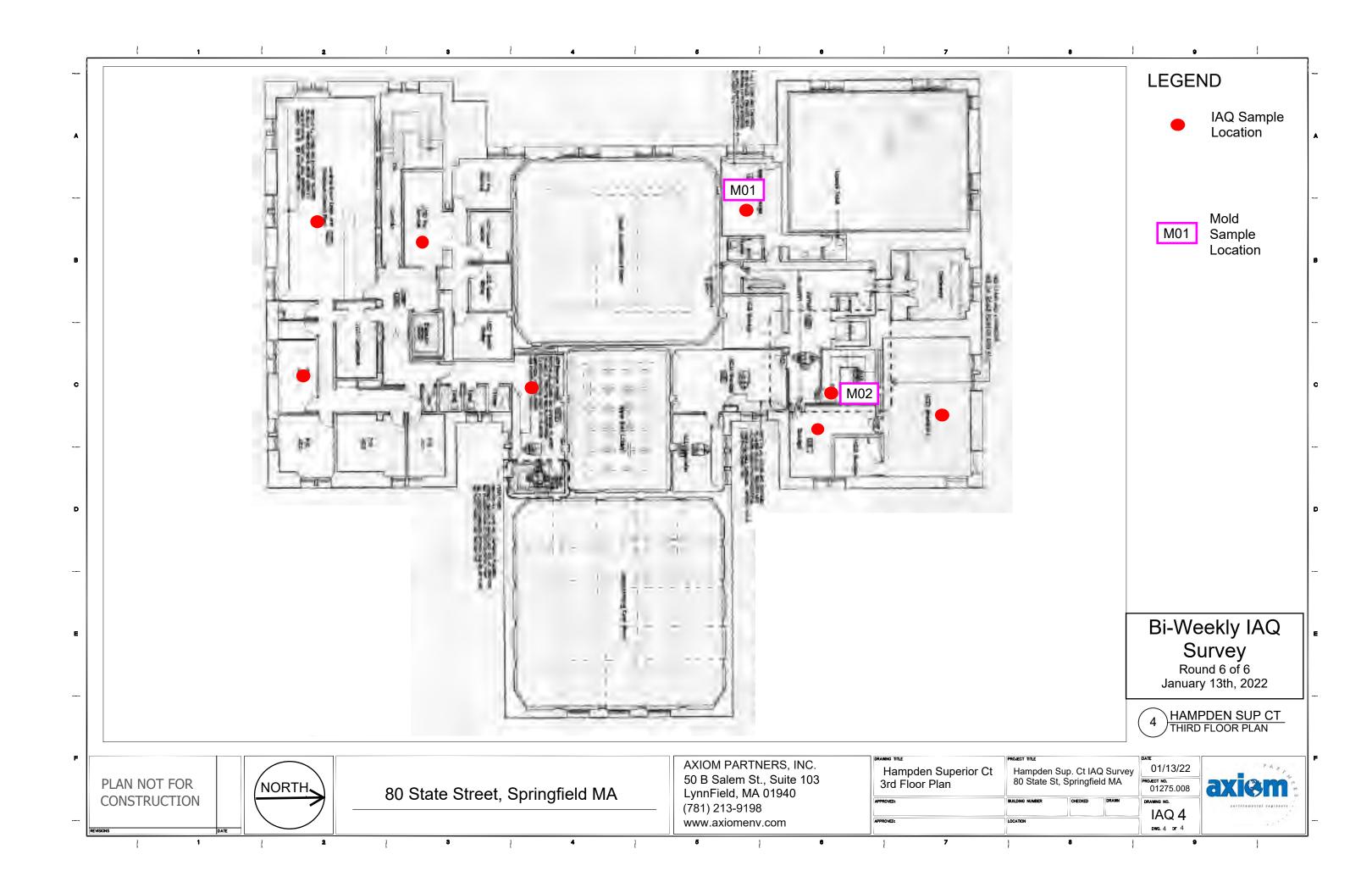
SAMPLE LOCATION FLOOR PLANS











TVOC CONCENTRATION REFERENCE TABLE



TVOC INDOOR AIR CONCENTRATION REFERENCE GUIDE

| TVOC Level ug/m3 | Level of Concern | Symptoms | Comments |
|------------------------------------|------------------|---|--|
| <300 (0.3 ppm) | Low | No irritation or discomfort is expected | There is a low likelihood that specific VOC sources are present |
| 300 to 500 (0.3 to 0.5 ppm) | Acceptable | Occasional irritation or discomfort may be possible with sensitive individuals | There is a low to moderate likelihood that specific VOC sources are present |
| 500 to 1,000 (0.5 to 1.0 ppm) | Marginal | Complaints about irritation and discomfort are possible in sensitive individuals | A moderate likelihood that specific VOC sources are it is recommended that steps be taken to identify the sources |
| 1,000 to 3,000 (1.0 to 3.0 ppm) | High | Irritation and discomfort are very likely | A high likelihood that specific VOC sources are present and it is highly recommended that steps be taken to identify them |
| >3,000 (>3.0 ppm) | Very High | Irritation and discomfort are very possible | These levels are usually found in an industrial environment where workers are exposed to chemicals |

