



April 15, 2022

Mr. Charles A. O'Brien  
Director  
Facilities Management & Capital Planning  
Massachusetts Trial Courts  
Three Pemberton Square  
Boston, MA 02108

**RE: Indoor Air Quality Assessment, Roderick L. Ireland Courthouse, Springfield, Massachusetts (EH&E 22799.2)**

Dear Mr. O'Brien:

Environmental Health & Engineering, Inc. (EH&E) presents this letter to the Massachusetts Trial Court regarding the findings from our assessment of Roderick L. Ireland Courthouse (the Building) located at 50 State Street, Springfield, Massachusetts. This assessment was requested by the Massachusetts Trial Court in response to concerns expressed by some occupants of the Building about the presence of potential mold growth in the Building that may be affecting indoor air quality.

Sampling for airborne mold spores in April 2022 did not indicate that sources of mold were impacting the indoor air in most locations of the Building. As described in the following sections, EH&E's observations and testing indicate that remediation efforts, upgraded building filtration, and use of portable air cleaning units have been effective in addressing the mold-impacted materials identified in the Building.

## SUMMARY

EH&E collected air samples for analysis of total (viable and non-viable) mold spores in 46 locations throughout each floor of the Building in April 2022. The sampling locations selected were the same locations that were sampled by EH&E in August 2019. Results of the April 2022 air sampling in the Building indicate:

- Total airborne mold spore concentrations decreased in the Building. The average concentration of 144 spores per cubic meter of air (spores/m<sup>3</sup>) measured in April 2022 is lower than the average concentration of 504 spores/m<sup>3</sup> measured in August 2019. In addition, the median total airborne mold spore concentration of 110 spores/m<sup>3</sup> measured in April 2022 is lower than the median concentration of 339 spores/m<sup>3</sup> measured in August 2019.

- Total indoor mold spore concentrations remain below total outdoor mold spore concentrations. Average total airborne mold spore concentrations in the outdoor air measured at the outdoor air intakes of the Building were 50,800 spore/m<sup>3</sup> in August 2019 and 4,600 spores/m<sup>3</sup> in April 2022.
- Total indoor mold spore concentrations decreased in most locations tested. 80% of the 46 sampling locations indicated lower concentrations of total mold spores when compared to results of the August 2019 sampling.
- Remediation work was effective in Superior Courtroom 1 and sampling results do not indicate mold sources impacting the air in this room. Air sampling results from Superior Courtroom 1 collected in August 2019 suggested the presence of potential indoor mold sources affecting the air in this room. April 2022 sample results indicate significantly lower spore concentrations.
- April 2022 airborne mold spore sampling results in the Building did not suggest the presence of indoor mold sources affecting indoor air quality (IAQ) in any location, except room G27C.
- Air sampling results from room G27C collected in April 2022 suggested the presence of potential indoor mold sources affecting the air in this room. The concentrations of *Penicillium/Aspergillus* spores in this room were elevated compared with those detected in other areas of the Building, outdoors, and those expected in typical indoor environments. EH&E recommends appropriately remediating water damage and mold growth in this area.
- Visual inspection conducted in April of 2022 indicates that 138 of the 167 locations with moisture/mold issues identified by EH&E in 2019 have been addressed or are in the process of being addressed.

## AIRBORNE MOLD SPORES

EH&E collected air samples for analysis of total (viable and non-viable) mold spores in multiple locations on each floor of the Building in August 2019 and in the same locations in April 2022. For comparison purposes, air samples were also collected outdoors. Replicate and blank samples were collected for quality control purposes. Airborne fungal spore data reflect the total number of spores present in the air, not just those that are viable. This sampling method was chosen because both viable and non-viable mold spores may produce allergic reactions in individuals who are sensitive to them. Air sampling results are presented in Tables A.1 and A.2 in Appendix A.

Although no regulatory standards exist for indoor levels of airborne mold spores, comparisons between indoor and outdoor spore types and levels can indicate whether the indoor environment may be supporting the selective growth of specific species.<sup>1</sup> This type of comparison is designed

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<sup>1</sup> AIHA. 2005. *Field Guide for Determination of Biological Contaminants in Environmental Samples*, 2<sup>nd</sup> Edition. Hung LL, Miller JD, Dilllon HK, eds. Fairfax, VA: American Industrial Hygiene Association.

to aid in detection of fungal amplification (i.e., localized growth) in indoor reservoirs that may support growth due to the presence of excessive moisture and suitable nutrients. Indoor environments without significant mold growth will generally contain a variety of spore types, depending on a number of factors, and the outdoor and indoor profiles of mold spores are generally similar.<sup>2</sup> A predominance of spore types indoors, particularly those that are used as indicators of chronic moisture damage that do not correlate well with outdoor results, may indicate mold growth indoors.

August 2019 airborne mold spore sampling results in the Building did not suggest the presence of indoor mold sources affecting IAQ in any location, except Superior Courtroom 1 in the Building. Total mold spore concentrations and levels of individual spores at all locations indoors, except Superior Courtroom 1, were similar to or below outdoor concentrations. All spore types detected indoors are commonly found in outdoor air and, therefore, also often found indoors, and none are considered indicators of chronic wetness/mold damage conditions. Further, spore levels in all areas except Superior Courtroom 1 were within ranges normally seen in indoor environments without mold problems.<sup>3</sup>

Air sampling results from Superior Courtroom 1 collected in August 2019 suggested the presence of potential indoor mold sources affecting the air in this room. The concentration of *Penicillium/Aspergillus* spores in this courtroom were elevated compared with those detected in other areas of the Building, outdoors, and those expected in typical indoor environments. EH&E recommended appropriately remediating water damage and mold growth in this area (and all areas where mold growth was identified in the Building). Results of the April 2022 air sampling indicate that remediation efforts improved conditions in Superior Courtroom 1. The concentration of *Penicillium/Aspergillus* spores in this courtroom decreased from 1,580 spores/m<sup>3</sup> to less than 13 spores/m<sup>3</sup>.

April 2022 airborne mold spore sampling results in the Building were significantly lower than the August 2019 results and did not suggest the presence of indoor mold sources affecting IAQ in any location, except room G27C. Total mold spore concentrations and levels of individual spores at all locations indoors, except G27C, were similar to or below outdoor concentrations. All spore types detected indoors are commonly found in outdoor air and, therefore, also often found indoors, and none are considered indicators of chronic wetness/mold damage conditions.

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<sup>2</sup> ACGIH. 1999. *Bioaerosols: Assessment and Control*. Macher J, ed. Cincinnati, OH: American Conference of Governmental Industrial Hygienists.

<sup>3</sup> MacIntosh DL, Brightman HS, Baker BJ, Myatt TA, Stewart JH, McCarthy JF. 2006. Airborne fungal spores in a cross-sectional study of office buildings. *Journal of Occupational and Environmental Hygiene*, 3:379-389; Baxter DM, Perkins JL, McGhee CR, Seltzer JM, 2005, A Regional Comparison of Mold Spore Concentrations Outdoors and Inside “Clean” and “Mold Contaminated” Southern California Buildings, *Journal of Occupational and Environmental Hygiene*, 2:8-18; Gots RE, Layton NJ, Pirages SW. 2003. Indoor Health: Background Levels of Fungi. *American Industrial Hygiene Association Journal*, 64:427-438.

Further, spore levels in all areas except G27C were within ranges normally seen in indoor environments without mold problems.

## VISUAL INSPECTION RESULTS

EH&E's site assessment was conducted April 4 – 6, 2022 and included visually re-inspecting every location identified in July – September 2019 as a potential location with sources or conditions that could negatively impact IAQ, such as evidence of water damage (i.e., staining) and/or mold growth.

In 2019, EH&E identified water and mold-impacted materials in 167 various areas of the Building. In a few locations, impacted materials were wet, indicating active moisture sources and surface sampling results confirmed the presence of mold growth on some materials; the types of mold detected are commonly seen on moisture-impacted materials.<sup>4</sup> Although mold growth was present in many areas of the Building, airborne mold spore sampling results were generally low and did not suggest the presence of indoor mold sources affecting IAQ in most locations.

Table B.1 in Appendix B details the moisture/mold issues identified by EH&E in the Building and the results of re-inspection of the identified locations to determine if they had been addressed. In 2019 EH&E recommended investigating and correcting the underlying cause of the moisture issues identified. Where applicable, it was also recommended that mold growth be appropriately remediated. Specific recommended mold remediation procedures, which incorporate industry-standard mold remediation guidance were provided.<sup>5</sup> Although the issues identified varied by location common items identified were:

- **Water-stained ceiling tiles.** These tiles were recommended to be removed and replaced. In most areas, no active leaks were identified. After ceiling tiles are replaced, the locations should be monitored for reoccurrence and moisture source(s) should be corrected, if warranted.
- **Water staining and damage near windows and perimeter areas.** Mold-impacted materials were recommended to be remediated. Water-impacted materials without mold growth were recommended to be repaired/repainted for aesthetic purposes. These areas should be monitored for leaks and, if necessary, leaks should be corrected.

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<sup>4</sup> AIHA. 2008. *Recognition, Evaluation, and Control of Indoor Mold*. Prezant B, Weekes DM, Miller JD, eds. Fairfax, VA: American Industrial Hygiene Association.

<sup>5</sup> EPA. 2008. *Mold Remediation in Schools and Commercial Buildings*. Washington, DC: U.S. Environmental Protection Agency Office of Air and Radiation, Indoor Environments Division. <https://www.epa.gov/mold/mold-remediation-schools-and-commercial-buildings-guide>; NYDOH. 2008. Guidelines on Assessment and Remediation of Fungi in Indoor Environments. New York City Department of Health and Mental Hygiene, Bureau of Environmental & Occupational Disease Epidemiology. <https://www1.nyc.gov/assets/doh/downloads/pdf/epi/epi-mold-guidelines.pdf>.

- **Dust accumulation and mold growth on supply air diffusers/surrounding ceiling tiles.**  
EH&E recommended cleaning supply diffusers and cleaning/replacing surrounding ceiling tiles. EH&E also recommended to review and establish an appropriate cleaning schedule for supply diffusers.

Based on conditions observed by EH&E in April 2022, 138 of the 167 locations with moisture/mold issues identified by EH&E in 2019 have been addressed or are in the process of being addressed. EH&E understands that renovation and repair activities are ongoing and that the additional areas are scheduled to be addressed.

## CONCLUSIONS AND RECOMMENDATIONS

EH&E's observations and testing indicate that remediation efforts, upgraded building filtration, and use of portable air cleaning units have been effective in addressing the mold-impacted materials identified in the Building. EH&E recommends establishing an operations and maintenance plan (O&M Plan) to manage conditions related to mold and moisture in the Building until the scheduled major renovation activities are initiated in approximately two years. The purpose of the recommended O&M Plan should be to:

- Recognize, control, and mitigate potential mold growth in the Building.
- Ensure the continued health and safety of staff, visitors, contractors, vendors, and the community.
- Implement proactive cleaning and maintenance activities.
- Maintain air and surface concentrations of mold below guidelines agreed to by building occupants and building management.
- Ensure adequate ventilation and filtration are provided to the Building.
- Specify mold sampling schedules and plans.

If you have any comments or questions regarding this report, please contact me at 1-800-TALK EHE (1-800-825-5343).

Sincerely,



Matt A. Fragala, M.S., CIH, CSP  
Managing Principal Consultant

Appendix A Air Sample Results  
Appendix B Visual Inspection Results  
Appendix C Limitations

**APPENDIX A**  
**AIR SAMPLE RESULTS**

Table A.1 Air Sampling Results for Total Viable and Non-Viable Fungal (Mold) Spores, Roderick L. Ireland Courthouse, 50 State Street, Springfield, Massachusetts, August 6 – 8, 2019 and April 2022						
Floor	Location	Sample ID		Fungal Type	Concentration (spores/m <sup>3</sup> )*	
		2019	April-2022		2019	April-2022
G	G17	192066	210736	Ascospores & basidiospores (mix tiny, hyaline) Basidiospores	452	110
					Total 452	110
G	G27C	192067	210658	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (pigmented) Ascospores & basidiospores (mix tiny, hyaline) Smuts/ <i>Periconia</i> /myxomycetes Other hyaline Fungi	57 57 452 57	1000 13
					Total 622	1000
G	G37	192068	210659	Ascospores & basidiospores (mix tiny, hyaline) Basidiospores	339	370
					Total 339	370
G	G43	192069	210737	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (pigmented) Ascospores & basidiospores (mix tiny, hyaline) Ascospores Basidiospores Smuts/ <i>Periconia</i> /myxomycetes	57 113 1020 53	53 110 13 230
					Total 1190	230
G	G42	192070	210660	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (pigmented) Ascospores & basidiospores (mix tiny, hyaline) Basidiospores <i>Cladosporium</i>	226 339 1690 57	53 270
					Total 2310	320
G	G42	192071	210661	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (pigmented) Ascospores & basidiospores (mix tiny, hyaline) Basidiospores <i>Cladosporium</i>	169 57 1580 282	110 110
					Total 2090	210
1	District Court 1	191838	210738	Ascospores & basidiospores (mix tiny, hyaline) <i>Aspergillus/Penicillium</i>	226	53
					Total 226	53
1	District Court 2	191834	210662	Ascospores & basidiospores (mix tiny, hyaline) <i>Cladosporium</i> <i>Aspergillus/Penicillium</i>	57 57	110
					Total 113	110
1	140	192058	210739	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (pigmented) Ascospores & basidiospores (mix tiny, hyaline) <i>Cladosporium</i>	339 169 508	53
					Total 1020	53

Table A.1 Continued						
Floor	Location	Sample ID		Fungal Type	Concentration (spores/m <sup>3</sup> )*	
		2019	April-2022		2019	April-2022
1	160	192059	210664	Ascospores & basidiospores (mix tiny, hyaline) <i>Basidiospores</i>	452	160
					Total 452	160
1	160	192060	210665	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (pigmented) Ascospores & basidiospores (mix tiny, hyaline) <i>Cladosporium</i> Other hyaline fungi	57 508 113 57	160
					Total 734	160
1	143 Corridor/ 143* (different locations)	192061	210663	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (pigmented) Ascospores & basidiospores (mix tiny, hyaline) Basidiospores	57 226	53
					Total 283	53 110
1	135	192062	210666	Ascospores & basidiospores (mix tiny, hyaline) Basidiospores Other fungi	395 113	53
					Total 508	53
1	Court Services Center	192063	210740	Ascospores & basidiospores (pigmented) Ascospores & basidiospores (mix tiny, hyaline) Basidiospores <i>Cladosporium</i> <i>Epicoccum</i> Other hyaline fungi	282 508 113 113	110 53 13
					Total 1020	170
1	101	192064	210670	Ascospores & basidiospores (mix tiny, hyaline) <i>Basidiospores</i>	452	160
					Total 452	160
1	101	192065	210671	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (mix tiny, hyaline) Ascospores Other fungi	395 57	53
					Total 452	160
2	District Court 3	191839	210667	Ascospores & basidiospores (mix tiny, hyaline) <i>Cladosporium</i>	57	110
					Total 57	110
2	204A	191813	210741	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (mix tiny, hyaline) Basidiospores	282 57	53
					Total 339	53
2	210	191816	210668	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (pigmented) Ascospores & basidiospores (mix tiny, hyaline) Basidiospores <i>Cladosporium</i> <i>Epicoccum</i>	169 57 282 57 11	53
					Total 575	160



Table A.1 Continued						
Floor	Location	Sample ID		Fungal Type	Concentration (spores/m <sup>3</sup> )*	
		2019	April-2022		2019	April-2022
2	213	191817	210742	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (pigmented) Ascospores & basidiospores (mix tiny, hyaline) <i>Pithomyces</i>	113 57 621 57 Total 847	53    53
2	230	191820	210669	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (mix tiny, hyaline)	169 Total 169	53 53
2	241	191821	210743	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (pigmented) Ascospores & basidiospores (mix tiny, hyaline) Basidiospores Smuts/ <i>Periconia</i> /myxomycetes	57 57 169  Total 282	110 13 120
2	Board of Commissioners	191824	210744	Ascospores & basidiospores (mix tiny, hyaline) <i>Basidiospores</i> <i>Cladosporium</i>	508 57 Total 565	53 53
2	District Court 6	191825	210674	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (mix tiny, hyaline) Ascospores	57 226 Total 283	110 110
2	District Court 7	191829	210675	Ascospores & basidiospores (mix tiny, hyaline) Basidiospores <i>Cladosporium</i> <i>Epicoccum</i>	57 169 11 Total 237	53 53
2	District Court 7	191832	210676	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (mix tiny, hyaline) <i>Basidiospores</i> <i>Cladosporium</i>	57 Total 57	110 53 210 370
2	District Court 10	191837	210677	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (pigmented) Ascospores & basidiospores (mix tiny, hyaline) <i>Alternaria</i> <i>Cladosporium</i>	113 113 Total 226	110 13 13 110 230
2	252	192055	210745	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (mix tiny, hyaline) Basidiospores	57 565 Total 622	53 110 160
2	252	192056		Ascospores & basidiospores (mix tiny, hyaline) Other hyaline fungi	678 57 Total 735	
2	246B	192057	210678	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (pigmented) Ascospores & basidiospores (mix tiny, hyaline)	57 57 113 Total 226	53 53



Table A.1 Continued						
Floor	Location	Sample ID		Fungal Type	Concentration (spores/m <sup>3</sup> )*	
		2019	April-2022		2019	April-2022
3	317	191812	210679	Ascospores & basidiospores (pigmented) Ascospores & basidiospores (mix tiny, hyaline) Basidiospores <i>Cladosporium</i>	57 57  Total 113	53 160 210
3	374	191814	210746	Ascospores & basidiospores (mix tiny, hyaline) <i>Cladosporium</i> Rusts	169  57 Total 226	53 53
3	Grand Jury	191815	210680	Ascospores & basidiospores (pigmented) <i>Cladosporium</i>	57  Total 57	53 53
3	Law Library - West	191818	210747	Ascospores & basidiospores (mix tiny, hyaline)	282  Total 282	<13 <13
3	Law Library - East	191819	210748	Ascospores & basidiospores (pigmented) Ascospores & basidiospores (mix tiny, hyaline) <i>Cladosporium</i>	113 169  Total 282	53 53
3	Clerk of Superior Court - Criminal	191822	210681	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (mix tiny, hyaline) Basidiospores <i>Cladosporium</i>	113 169  57 Total 339	110 110
3	375	191823	210749	Ascospores & basidiospores (pigmented) Ascospores & basidiospores (mix tiny, hyaline) Basidiospores	57 452  Total 509	53 53
3	370	191826	210682	Ascospores & basidiospores (pigmented) Ascospores & basidiospores (mix tiny, hyaline) Basidiospores <i>Cladosporium</i> Other fungi	113 339  57 Total 509	53 53 110
3	Attorney's Lounge	191827	210750	<i>Cladosporium</i>	ND  Total 270	270 270
3	Superior Court 1	191835	210683	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (mix tiny, hyaline) Basidiospores <i>Cladosporium</i>	1520 57  Total 1580	110 53 160
3	Superior Court 2	191836	210684	Ascospores & basidiospores (pigmented) Ascospores & basidiospores (mix tiny, hyaline) Basidiospores <i>Cladosporium</i>	57 169  Total 226	53 370 430

Table A.1 Continued						
Floor	Location	Sample ID		Fungal Type	Concentration (spores/m <sup>3</sup> )*	
		2019	April-2022		2019	April-2022
4	416	191804	210751	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (pigmented) Ascospores & basidiospores (mix tiny, hyaline) Rusts Smuts/ <i>Periconia</i> /myxomycetes	113 282 396 57 Total 847	13 13
4	Registry of Deeds Library	191805	210685	Ascospores & basidiospores (pigmented) Ascospores & basidiospores (mix tiny, hyaline) Basidiospores	169 395 Total 564	53 53
4	403	191806	210686	Ascospores & basidiospores (mix tiny, hyaline)	57 Total 57	ND<13
4	Registry of Probate Secretary Pool	191807	210687	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (pigmented) Ascospores & basidiospores (mix tiny, hyaline) <i>Cladosporium</i> Rusts Other fungi	57 226 113 57 Total 452	53 53 110
4	421	191808	210752	Basidiospores <i>Aspergillus/Penicillium</i>	ND	53 53 Total 110
4	Jury Pool Room	191809	210753	Ascospores & basidiospores (pigmented) Ascospores & basidiospores (mix tiny, hyaline) <i>Cladosporium</i> <i>Nigrospora</i> Rusts Smuts/ <i>Periconia</i> /myxomycetes	113 113 113 57 57 Total 452	53 13 67
4	427	191810	210688	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (mix tiny, hyaline) Basidiospores	113 168 Total 282	53 53
4	412/412 Corridor*	191811	210689	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (mix tiny, hyaline) Basidiospores <i>Cladosporium</i> Other brown Other fungi	169 791 57 57 Total 1070	110 53 13 170
4	Probate Court 1	191830	210755	Ascospores & basidiospores (pigmented) Ascospores & basidiospores (mix tiny, hyaline) <i>Cladosporium</i>	113 113 Total 226	53 53
4	Probate Court 2	191831	210754	<i>Aspergillus/Penicillium</i> Ascospores & basidiospores (mix tiny, hyaline) <i>Cladosporium</i>	57 113 Total 170	53 53
--	Field blank	192074	210692	ND	ND <13	ND <13
--	Field blank	--	210693	ND	--	ND <13

Table A.1 Continued						
Floor	Location	Sample ID		Fungal Type	Concentration (spores/m <sup>3</sup> )*	
		2019	April-2022		2019	April-2022
--	Media blank	192075	210694	ND	ND <13	ND <13
--	Media blank	--	210695	ND	--	ND <13

spores/m<sup>3</sup> spores per cubic meter  
 ND none detected  
 NA not applicable

\* Total spore concentrations reported by the laboratory are rounded to two significant digits. At 100 percent read total counts of 13 spores/m<sup>3</sup> indicated that based on the volume of air sampled only one spore was present.

August 2019 samples analyzed by Environmental Analysis Associates, Inc. (Bay City, Michigan)  
 April 2022 samples analyzed by Eurofins EMLab P&K, Fairfax, Virginia.  
 Method: Air-O-Cell, spore trap analysis

Table A.2 Outdoor Air Sampling Results for Total Viable and Non-Viable Fungal (Mold) Spores, Roderick L. Ireland Courthouse, 50 State Street, Springfield, Massachusetts, August 2019 and April 2022					
Sample ID	Date	Fungal Type	Raw Spore Count	% Read	Concentration (spores/m <sup>3</sup> )*
8/8/2019	192072	<i>Alternaria</i>			57
		<i>Aspergillus/Penicillium</i>			678
		Ascospores & basidiospores (pigmented)			1520
		Ascospores & basidiospores (mix tiny, hyaline)			43200
		<i>Cladosporium</i>			960
		Smuts/ <i>Periconia</i> /myxomycetes			57
		Other hyaline fungi			169
					Total 46,600
8/8/2019	192073	<i>Alternaria</i>			11
		<i>Aspergillus/Penicillium</i>			734
		Ascospores & basidiospores (pigmented)			1580
		Ascospores & basidiospores (mix tiny, hyaline)			50700
		<i>Cladosporium</i>			1640
		Smuts/ <i>Periconia</i> /myxomycetes			113
		Other hyaline fungi			169
		Other fungi			11
					Total 55,000
4/1/2022	210656	Ascospores	14	25	750
		Basidiospores	182	25	9,700
		<i>Aspergillus/Penicillium</i>	4	25	210
					Total 11,000
4/1/2022	210657	Ascospores	55	25	2,900
		Basidiospores	121	25	6,500
		<i>Aspergillus/Penicillium</i>	9	25	480
					Total 9,900

Table A.2 Continued					
Sample ID	Date	Fungal Type	Raw Spore Count	% Read	Concentration (spores/m <sup>3</sup> )*
4/1/2022	210672	<i>Ascospores</i>	1	25	53
		<i>Basidiospores</i>	19	25	1,000
		<i>Cladosporium</i>	3	25	160
		<i>Aspergillus/Penicillium</i>	2	25	110
		Total			1,300
4/1/2022	210673	<i>Ascospores</i>	4	25	210
		<i>Basidiospores</i>	27	25	1,400
		<i>Aspergillus/Penicillium</i>	3	25	160
Total			1,800		
4/1/2022	210690	<i>Alternaria</i>	3	100	40
		<i>Ascospores</i>	2	25	110
		<i>Basidiospores</i>	17	25	910
		<i>Cladosporium</i>	8/12	25/100	590
		<i>Curvularia</i>	1	100	13
		Other brown	1	100	13
		<i>Pithomyces</i>	1	100	13
		<i>Smuts/Periconia/myxomycetes</i>	1	100	13
		Total			1,700
4/1/2022	210691	<i>Alternaria</i>	7	100	93
		<i>Ascospores</i>	1	25	53
		<i>Basidiospores</i>	19	25	1,000
		<i>Cladosporium</i>	15	25	800
		Other brown	2	100	27
		<i>Torula</i>	1	100	13
		Total			2,000
spores/m <sup>3</sup> spores per cubic meter ND none detected NA not applicable  * Total spore concentrations reported by the laboratory are rounded to two significant digits. At 100 percent read total counts of 13 spores/m <sup>3</sup> indicated that based on the volume of air sampled only one spore was present.  August 2019 samples analyzed by Environmental Analysis Associates, Inc. (Bay City, Michigan) April 2022 samples analyzed by Eurofins EMLab P&K, Fairfax, Virginia. Method: Air-O-Cell, spore trap analysis					

**APPENDIX B**  
**VISUAL INSPECTION FINDINGS**

Table B.1 Water Damage and Mold Growth Identified During Visual Inspections, Roderick L. Ireland Courthouse, 50 State Street, Springfield, Massachusetts, July – September 2019 and Re-Inspection April 2022		
Room	Visual Observations	
	2019	2022
Ground Floor		
G03	Cracking plaster water damage on walls in back	Addressed: Touch-up needed
G06	Visible mold growth on supply diffuser	Addressed: Touch-up needed
G10	Visible mold growth on supply diffuser	Addressed: Touch-up needed
G11	Visible mold growth on supply diffuser	Addressed: Touch-up needed
G12	Visible mold growth on supply diffuser and surrounding ceiling	Addressed: Touch-up needed
G13	Visible mold growth on supply diffuser and surrounding ceiling	Addressed
G14	Visible mold growth on supply diffuser, ceiling and metal bars	Addressed: Touch-up needed
G15	Visible mold growth on supply diffuser	Addressed: Touch-up needed
G16	<ul style="list-style-type: none"> <li>• Visible mold growth on supply diffuser</li> <li>• Visible mold growth on metal door frame</li> </ul>	Addressed
G17	Visible mold growth on supply diffuser	Addressed: Touch-up needed
G21	Visible mold growth on supply diffuser	Addressed: Touch-up needed
G22	Visible mold growth on supply diffuser	Addressed: Touch-up needed
G23	Visible mold growth on supply diffuser	Addressed: Touch-up needed
G24	Visible mold growth on supply diffuser	Addressed: Touch-up needed
G25	Visible mold growth on supply diffuser	Addressed: Touch-up needed
G26	Visible mold growth on supply diffuser	Addressed: Touch-up needed
G27	<ul style="list-style-type: none"> <li>• Water damage to back wall and ceiling above lockers</li> <li>• Wet ceiling tiles above lockers</li> </ul>	Addressed: Touch-up needed
G28	Water-stained ceiling tiles	Addressed: Additional removal needed
G33	Water-stained ceiling tiles around supply diffuser	Addressed: Additional removal needed
G33	Standing water on floor by drain	Addressed
G36	Visible mold growth on the exposed duct	Addressed: Touch-up needed work ongoing
G47	Water-stained ceiling tiles	Addressed: Touch-up needed
G54	Water damage on wall behind vending machine	Additional Removal needed
First Floor		
District Courtroom 1	Visible mold growth around lateral diffusers and surrounding ceiling tiles	Addressed: Touch-up needed
District Court Probation	<ul style="list-style-type: none"> <li>• Visible mold growth on supply diffusers and surrounding ceiling tiles</li> <li>• Water damage on frames and wall around windows</li> </ul>	Addressed: Touch-up needed
Employee Lounge	<ul style="list-style-type: none"> <li>• Water-stained ceiling tile</li> <li>• Visible mold growth on lateral diffusers and surrounding tile</li> <li>• Water damage on frames of windows</li> </ul>	Addressed
Hallways	Visible mold growth on lateral diffusers and surrounding ceiling	Addressed: Touch-up needed
Judges Hallway	Water-stained ceiling tiles by entryway to 122 and 140	Addressed

Table B.1 Continued		
Room	Visual Observations	
	2019	2022
First Floor (continued)		
Main Lobby	<ul style="list-style-type: none"> <li>Water damage on ceiling</li> <li>Visible mold growth on lateral diffusers by entryways</li> <li>Water-stained ceiling tile by Stairwell 3</li> </ul>	Addressed: Touch-up paint needed
Officers Lounge	Visible mold growth on lateral diffusers	Addressed: Touch-up needed
114	<ul style="list-style-type: none"> <li>Visible mold growth on supply diffuser</li> <li>Water-stained ceiling tile by supply diffuser</li> </ul>	Addressed
115	<ul style="list-style-type: none"> <li>Visible mold growth on supply diffuser</li> <li>Water-staining on carpet</li> </ul>	Addressed: Touch-up carpet needed
116	Visible mold growth on supply diffuser	Addressed
117	Visible mold growth on supply diffuser	Addressed
119	Visible mold growth on supply diffuser	Addressed
120	Visible mold growth on supply diffuser	Addressed: Touch-up needed
121	Water damage surrounding window	Addressed: Additional removal needed
121A	<ul style="list-style-type: none"> <li>Water damage surrounding window</li> <li>Water-stained ceiling tiles</li> </ul>	Addressed: Touch-up needed
121B	Water damage surrounding window	Addressed: Touch-up needed
124	<ul style="list-style-type: none"> <li>Water damage and staining by holding cells</li> <li>Water damage surrounding windows (paint and wall material deteriorating)</li> </ul>	Addressed Diffusers Unoccupied space
136	Water staining on wall paint	Addressed
137	Water-stained ceiling tiles with visible mold growth	Addressed: Touch-up needed
137 Hallway	<ul style="list-style-type: none"> <li>Water-stained ceiling tiles</li> <li>Visible mold growth around lateral diffusers</li> </ul>	Addressed
138A	<ul style="list-style-type: none"> <li>Water damage on walls and ceiling in void by windows</li> <li>Stained floor tiles below windows (rust)</li> <li>Water damage in perimeter units</li> </ul>	Addressed: Additional Cleaning needed
138	Water-stained ceiling tiles with visible mold growth	Additional work needed
139	Water-stained ceiling tiles with visible mold growth	Addressed: Touch-up needed
140	Water-stained ceiling tiles by windows	Addressed
141	Visible mold growth on supply diffuser	Addressed
142	<ul style="list-style-type: none"> <li>Visible mold growth on supply diffuser</li> <li>Water-stained ceiling tile</li> </ul>	Addressed: Additional removal needed
143	Visible mold growth on supply diffusers	Addressed: Touch-up needed left side
144	<ul style="list-style-type: none"> <li>Visible mold growth on supply diffusers</li> <li>Water-stained ceiling tiles around diffusers</li> </ul>	Addressed: Touch-up needed
149	Water-stained ceiling tiles	Addressed
150	Water-stained ceiling tile	Addressed: Touch-up needed
155	Water-stained ceiling tile in center of room	Addressed
157	Visible mold growth on supply diffuser	Addressed
160	<ul style="list-style-type: none"> <li>Water damage on frames of windows</li> <li>Visible mold growth on supply diffuser</li> </ul>	Addressed
166	Visible mold growth on supply diffuser	Addressed
Second Floor		
Hallways	<ul style="list-style-type: none"> <li>Visible mold growth on lateral diffusers by entryways and ceiling tile by District Courtroom 10</li> <li>Stained ceiling in lobby by stairwell</li> </ul>	Addressed

Table B.1 Continued		
Room	Visual Observations	
	2019	2022
Second Floor (continued)		
District Courtroom 3	Visible mold growth around lateral vents and on surrounding ceiling tiles	Addressed
District Courtroom 4	Visible mold growth around lateral vents and on surrounding ceiling tiles	Addressed: touch-up needed
District Courtroom 5	Visible mold growth around lateral vents and on surrounding ceiling tiles	Addressed
District Courtroom 6	Visible mold growth around lateral vents and on surrounding ceiling tiles	Addressed: touch-up needed
District Courtroom 7	Visible mold growth around lateral vents and on surrounding ceiling tiles	Addressed
District Courtroom 8	Visible mold growth around lateral vents and on surrounding ceiling tiles	Addressed
District Courtroom 9	Visible mold growth around lateral vents and on surrounding ceiling tiles	Addressed
District Courtroom 10	Visible mold growth around lateral vents and on surrounding ceiling tiles	Addressed
204	<ul style="list-style-type: none"> <li>• Stained carpeting from water damage</li> <li>• Water damage around windows and on wood cabinets below</li> </ul>	Addressed: Window still leaking
204A	<ul style="list-style-type: none"> <li>• Water-stained carpet</li> <li>• Water damage around windows and on wood cabinets below</li> </ul>	Addressed: Ongoing work
204B	<ul style="list-style-type: none"> <li>• Water stained carpet</li> <li>• Water damage around windows and on wood cabinets below</li> </ul>	Addressed: Ongoing work
205	Water damage around windows	Addressed: Ongoing work
206	<ul style="list-style-type: none"> <li>• Water damage around windows</li> <li>• Water-stained ceiling tiles around windows</li> <li>• Rust on and near perimeter unit</li> </ul>	Addressed: Ongoing work
207	<ul style="list-style-type: none"> <li>• Water-stained ceiling tiles around windows</li> <li>• Staining on carpet below perimeter units</li> </ul>	Addressed: Ongoing work
207A	<ul style="list-style-type: none"> <li>• Water damage around windows</li> <li>• Water-stained ceiling tiles around windows</li> <li>• Staining on carpet below perimeter units</li> </ul>	Addressed: Ongoing work
207B	<ul style="list-style-type: none"> <li>• Water damage around windows</li> <li>• Water-stained ceiling tiles around windows</li> <li>• Staining on carpet below perimeter units</li> </ul>	Addressed: Ongoing work
208	<ul style="list-style-type: none"> <li>• Water damage on wall and frames surrounding window (in void)</li> <li>• Visible mold growth on supply diffuser and surrounding ceiling tiles</li> </ul>	Addressed: Ongoing work
209	<ul style="list-style-type: none"> <li>• Water damage on wall and frames surrounding window (in void)</li> <li>• Visible mold growth on lateral diffuser and surrounding ceiling tiles</li> </ul>	Addressed: Ongoing work
210	Water damage on wall and frames surrounding window (in void)	Addressed



Table B.1 Continued		
Room	Visual Observations	
	2019	2022
Second Floor (continued)		
210A	Water damage on wall and frames surrounding window (in void)	Addressed
211	Visible mold growth on supply diffuser and surrounding ceiling tiles	Addressed
212	Visible mold growth on supply diffuser and surrounding ceiling tiles	Cleaning Needed
213	Visible mold growth on supply diffuser and surrounding ceiling tiles	Cleaning Needed
214	Visible mold growth on supply diffuser and surrounding ceiling tiles	Addressed
215	Visible mold growth on supply diffuser and surrounding ceiling tiles	Addressed
216	Visible mold growth on supply diffuser and surrounding ceiling tiles	Cleaning Needed
217	Visible mold growth on supply diffuser and surrounding ceiling tiles	Addressed
218	Visible mold growth on supply diffuser and surrounding ceiling tiles	Cleaning Needed
219	Visible mold growth on supply diffuser and surrounding ceiling tiles	Cleaning Needed
220	Visible mold growth on supply diffuser and surrounding ceiling tiles	Cleaning Needed
221	Water damage on perimeter unit (staining on insulation)	Cleaning Needed
Vault 221 Hallway	<ul style="list-style-type: none"> <li>• Visible mold growth on lateral diffusers and surrounding ceiling tiles</li> <li>• Water-stained ceiling tile outside 220</li> </ul>	Addressed: touch-up needed
223	Visible mold growth on supply diffuser and surrounding ceiling tiles	Cleaning Needed
223 Hallway	Visible mold growth on ceiling tiles near entryway	Addressed: touch-up needed
223A	Visible mold growth on supply diffuser and surrounding ceiling tiles	Cleaning Needed
224	Visible mold growth on supply diffuser and surrounding ceiling tiles	Cleaning Needed
225	Visible mold growth on supply diffuser and surrounding ceiling tiles	Cleaning Needed
226	Visible mold growth on supply diffuser and surrounding ceiling tiles	Cleaning Needed
230	<ul style="list-style-type: none"> <li>• Water damage on wall by windows</li> <li>• Visible mold growth on supply diffusers and surrounding ceiling tiles</li> </ul>	Cleaning Needed
239	<ul style="list-style-type: none"> <li>• Water damage on wall and frames surrounding windows</li> <li>• Water damage on insulation surrounding pipes in perimeter units</li> <li>• Water-stained ceiling tiles</li> </ul>	Addressed: Touch-up needed
241	Water-stained ceiling tile by entryway	Addressed
245	Visible mold growth on supply diffuser and surrounding ceiling tiles	Addressed

Table B.1 Continued		
Room	Visual Observations	
	2019	2022
Second Floor (continued)		
246	Water damage around window	Addressed: Touch-up needed
246A	<ul style="list-style-type: none"> <li>Water-stained ceiling tile by door</li> <li>Water damage around diffuser and window (in void)</li> </ul>	Cleaning needed
246B	Water damage around window (in void) and on replaced wall areas	Cleaning needed
247	<ul style="list-style-type: none"> <li>Water damage around window</li> <li>Visible mold growth and water damage on window trim and frame</li> </ul>	Addressed: Touch-up needed
248	Water damage around window (in void)	Addressed: Touch-up and additional removal needed
249	<ul style="list-style-type: none"> <li>Water damage around lateral diffuser at entryway</li> <li>Water-stained ceiling tiles at entryway</li> <li>Visible mold growth on supply diffuser</li> <li>Water damage around window</li> <li>Water damage surrounding perimeter units</li> </ul>	Addressed: Touch-up needed
249A	<ul style="list-style-type: none"> <li>Water-stained ceiling tiles (some tiles missing)</li> <li>Visible mold growth on supply diffuser</li> <li>Water damage around window</li> <li>Water damage surrounding perimeter units</li> </ul>	Addressed: Touch-up needed
249B	<ul style="list-style-type: none"> <li>Water-stained ceiling tiles by windows</li> <li>Visible mold growth on supply diffuser</li> <li>Water damage around window</li> <li>Water damage surrounding perimeter units</li> </ul>	Addressed
250	<ul style="list-style-type: none"> <li>Water damage on frame and below window</li> <li>Water-stained ceiling tiles by windows</li> </ul>	Addressed
251	<ul style="list-style-type: none"> <li>Water damage on walls around window (in void)</li> <li>Water-stained ceiling tiles by windows</li> </ul>	Addressed
251A	<ul style="list-style-type: none"> <li>Water damage on walls around window (in void)</li> <li>Water-stained carpet below windows</li> <li>Wet filter in perimeter unit</li> </ul>	Addressed
251B	<ul style="list-style-type: none"> <li>Water damage on walls around window (in void)</li> <li>Water-stained ceiling tiles by windows</li> <li>Visible mold growth on supply diffuser</li> </ul>	Addressed: Touch-up needed
Third Floor		
Third Floor Hallways	Water-stained ceiling tiles around diffusers	Addressed: Touch-up needed
Law Library	<ul style="list-style-type: none"> <li>Water-stained ceiling tiles</li> <li>Water damage around windows (ceilings, walls and frames)</li> <li>Visible mold growth on wood frames by windows</li> <li>Water damage on wall (crack in wall by 309)</li> </ul>	Addressed: Touch-up needed ongoing work
Attorney's Lounge	Visible mold growth on lateral diffusers and surrounding brick below	Addressed: Touch-up and ceiling tiles needed
Superior Court Probation	Visible mold growth on supply diffusers and surrounding ceiling tiles	Addressed
Grand Jury	<ul style="list-style-type: none"> <li>Water-stained ceiling tiles</li> <li>Visible mold growth on supply diffusers and surrounding ceiling tiles</li> <li>Water damage surrounding windows</li> </ul>	Addressed: Touch-up needed

Table B.1 Continued		
Room	Visual Observations	
	2019	2022
Third Floor (continued)		
Hearing Room 4	Visible mold growth on supply diffuser	Cleaning Needed
303	Visible mold growth on supply diffuser	Cleaning Needed
304	<ul style="list-style-type: none"> <li>• Visible mold growth on supply diffuser</li> <li>• Water damage on surfaces (possibly from plants previously in the area)</li> </ul>	Addressed: Touch-up needed
309	<ul style="list-style-type: none"> <li>• Water-stained ceiling tiles around window</li> <li>• Water damage around window</li> </ul>	Addressed: Touch-up needed
312	Visible mold growth on supply diffuser	Cleaning Needed
313	Water-stained ceiling tile by window	Addressed
313A	Water damage on wall and frames of windows	Cleaning Needed
314	Visible mold growth on supply diffuser	Addressed
316	<ul style="list-style-type: none"> <li>• Visible mold growth on supply diffuser</li> <li>• Water damage around window frame</li> </ul>	Addressed: Touch-up needed
317	<ul style="list-style-type: none"> <li>• Water damage on frames of windows</li> <li>• Water-stained ceiling tiles around windows</li> </ul>	Addressed: Touch-up needed
317B	<ul style="list-style-type: none"> <li>• Water damage on frames of windows</li> <li>• Water-stained ceiling tiles around windows</li> <li>• Visible mold growth on supply diffuser</li> </ul>	Addressed: Touch-up needed
320	<ul style="list-style-type: none"> <li>• Water-stained ceiling tiles</li> <li>• Water damage on window frames and surrounding wall (paint bubbling)</li> <li>• Water-stained carpet below perimeter units</li> </ul>	Addressed: Touch-up needed
320A	<ul style="list-style-type: none"> <li>• Water-stained ceiling tiles</li> <li>• Water damage on window frames and surrounding wall (paint bubbling)</li> <li>• Water-stained carpet below perimeter units</li> </ul>	Addressed: Touch-up needed
320B	<ul style="list-style-type: none"> <li>• Water-stained ceiling tiles</li> <li>• Water damage on window frames and surrounding wall (paint bubbling)</li> <li>• Water-stained carpet below perimeter units</li> </ul>	Addressed: Touch-up needed
324	Possible water damage on ceilings of cells (peeling paint)	Cleaning Needed
331	Visible mold growth on supply diffuser	Addressed
332	Visible mold growth on supply diffuser	Addressed
334	Visible mold growth on lateral diffusers, surrounding brick wall, and ceiling tiles	Addressed
337	<ul style="list-style-type: none"> <li>• Visible mold growth on supply diffuser</li> <li>• Water damage on carpeting</li> </ul>	Addressed
342	Visible mold growth on supply diffuser	Cleaning Needed
343	<ul style="list-style-type: none"> <li>• Visible mold growth on supply diffuser</li> <li>• Water damage on frame of window</li> </ul>	Addressed
344	Visible mold growth on supply diffuser	Addressed
345	Visible mold growth on supply diffuser	Addressed
346	Water damage on window frame	Addressed
349	Water damage on wall	Addressed
350A	Visible mold growth on lateral diffusers and surrounding ceiling	Addressed

Table B.1 Continued		
Room	Visual Observations	
	2019	2022
Third Floor (continued)		
364	Visible mold growth on supply diffuser and surrounding ceiling tiles	Addressed
365	Visible mold growth on supply diffuser and surrounding ceiling tiles	Addressed
367	<ul style="list-style-type: none"> <li>• Water damage below window (possibly from plants in the area)</li> <li>• Water damage on wood frame and adjacent wall to window</li> </ul>	Addressed: Touch-up needed
368	Water damage on wood frame and adjacent wall to window	Addressed
369	Water damage on frame of window	Addressed: Touch-up needed
370	<ul style="list-style-type: none"> <li>• Water-stained ceiling tiles around diffusers</li> <li>• Wet insulation around perimeter units</li> </ul>	Addressed
371	Visible mold growth on lateral diffuser	Addressed
372	<ul style="list-style-type: none"> <li>• Water damage on frames and wall around windows and perimeter units (145, 144, 143, and 142)</li> <li>• Water-stained ceiling tiles by windows</li> </ul>	Addressed: Touch-up and leak repair needed
373	<ul style="list-style-type: none"> <li>• Water damage around window</li> <li>• Water-stained ceiling tiles by windows</li> </ul>	Addressed
376	Visible mold growth on supply diffuser	Cleaning Needed
377	Water damage on wall by window	Addressed: Touch-up needed
Fourth Floor		
Fourth Floor Hallway	Visible mold growth around lateral vents and on surrounding ceiling tiles	Cleaning Needed
Land Registry	Water damage on frames around windows and wood below	Addressed
Registry of Deeds Library	<ul style="list-style-type: none"> <li>• Visible mold growth on supply diffusers</li> <li>• Water damage on ceiling tiles and frames of windows</li> <li>• Rust and visible mold growth on insulation around perimeter units (111, 110, 112, 109, 108, 107, 106, 105)</li> </ul>	Addressed
402	<ul style="list-style-type: none"> <li>• Water damage below window (possibly from plants in the area)</li> <li>• Visible mold growth on supply diffuser</li> </ul>	Addressed
403	Water damage below carpet (old Liebert unit leaked but reportedly removed)	Addressed
408	Visible mold growth on supply diffusers and surrounding ceiling tiles	Cleaning Needed
410	Water-stained ceiling tiles	Addressed: Touch-up needed
411	<ul style="list-style-type: none"> <li>• Water-stained ceiling tiles</li> <li>• Visible mold growth on diffusers and surrounding ceiling tiles</li> </ul>	Addressed
412	Water damage on frames and walls around windows	Addressed: Touch-up needed
416	<ul style="list-style-type: none"> <li>• Visible mold growth on supply diffusers and surrounding ceiling tiles</li> <li>• Water damage on frames and walls around windows</li> </ul>	Addressed: Touch-up needed

Table C.1 Continued		
Room	Visual Observations	
Fourth Floor (continued)		
419	<ul style="list-style-type: none"> <li>• Visible mold growth on supply diffusers and surrounding ceiling tiles</li> <li>• Water damage on frames and walls around windows</li> </ul>	Addressed
420	<ul style="list-style-type: none"> <li>• Visible mold growth on supply diffusers and surrounding ceiling tiles</li> <li>• Water damage on frames and walls around windows</li> </ul>	Addressed
421	<ul style="list-style-type: none"> <li>• Visible mold growth on supply diffusers and surrounding ceiling tiles</li> <li>• Water damage on frames and walls around windows</li> </ul>	Addressed
422	<ul style="list-style-type: none"> <li>• Visible mold growth on supply diffusers and surrounding ceiling tiles</li> <li>• Water damage on frames and walls around windows</li> </ul>	Addressed: Touch-up needed
428	Water damage on frames and walls around windows	Cleaning Needed
429	Visible mold growth and rust on supply diffusers	Cleaning Needed
416A	<ul style="list-style-type: none"> <li>• Visible mold growth on supply diffusers and surrounding ceiling tiles</li> <li>• Water damage on frames and walls around windows</li> </ul>	Addressed: Touch-up needed
416B	<ul style="list-style-type: none"> <li>• Visible mold growth on supply diffusers and surrounding ceiling tiles</li> <li>• Water damage on frames and walls around windows</li> </ul>	Addressed: Touch-up needed
428A	<ul style="list-style-type: none"> <li>• Water-stained ceiling tiles around light</li> <li>• Water damage on frames and walls around windows</li> </ul>	Addressed
428B	Water damage on frames and walls around windows	Cleaning Needed
446 Jury Pool	--	Ongoing Work: Window leak and ceiling tile removal needed

## APPENDIX C LIMITATIONS

1. Environmental Health & Engineering, Inc.'s (EH&E) indoor environmental quality assessment described in the attached report number 22799.2, *Indoor Air Quality Assessment, Roderick L. Ireland Courthouse, Springfield, Massachusetts* (hereafter "the Report"), was performed in accordance with generally accepted practices employed by other consultants undertaking similar studies at the same time and in the same geographical area; and EH&E observed that degree of care and skill generally exercised by such other consultants under similar circumstances and conditions. The observations described in the Report were made under the conditions stated therein. The conclusions presented in the Report were based solely upon the services described therein, and not on scientific tasks or procedures beyond the scope of described services.
2. Observations were made of the site as indicated within the Report. Where access to portions of the site was unavailable or limited, EH&E renders no opinion as to the condition of that portion of the site.
3. The observations and recommendations contained in the Report are based on limited environmental sampling and visual observation and were arrived at in accordance with generally accepted standards of industrial hygiene practice. The sampling and observations conducted at the site were limited in scope and, therefore, cannot be considered representative of areas not sampled or observed.
4. When an outside laboratory conducted sample analyses, EH&E relied upon the data provided and did not conduct an independent evaluation of the reliability of these data.
5. The purpose of the Report was to assess the characteristics of the subject site as stated within the Report. No specific attempt was made to verify compliance by any party with all federal, state, or local laws and regulations.