



Windjammer Environmental LLC  
6710 Oxon Hill Road  
Suite 210  
Oxon Hill, MD 20745  
(888) 270-8387  
[info@wjenviro.com](mailto:info@wjenviro.com)

May 24, 2019

Alex Baylor  
Environmental Specialist  
PGCPS Environmental Safety Office  
13306 Old Marlboro Pike  
Upper Marlboro, MD 20772  
[Alex.baylor@pgcps.org](mailto:Alex.baylor@pgcps.org)

Re: IAQ and Mold Assessment Report  
Prince George's County Public Schools  
Indian Queen Elementary School

Dear Mr. Baylor,

Windjammer Environmental LLC (Windjammer) was contracted to conduct a visual assessment, measure indoor air quality (IAQ) parameters and sample for mold in a limited number of areas at the Indian Queen Elementary School located at 9551 Fort Foote Road, Fort Washington, MD 20744. This assessment is intended to check on effectiveness of operations activities that are focused on preventing conditions that can lead to the development of an environment which is historically associated with an increase in reports of poor IAQ. This assessment was conducted by Certified Industrial Hygienist (CIH) Katherine Dietrich on May 15, 2019.

This assessment included:

- Measurement of temperature, relative humidity, carbon dioxide (CO<sub>2</sub>) and carbon monoxide (CO)
- Collection of nonviable airborne mold samples; and
- Visual assessment of select areas.

### Methods

A TSI IAQ-Calc Model 7545 was used to measure temperature, relative humidity, carbon dioxide (CO<sub>2</sub>) and carbon monoxide (CO).

Air samples for non-viable airborne fungi were collected on Air-O-Cell cassettes using a Zefon Bio-Pump Plus portable sampler calibrated to collect 15 liters of air per minute (lpm). The sampling period for the all samples was five minutes.

Direct read instrumentation used were calibrated in accordance with the manufacturer's specifications prior to the start of this assessment.

All samples collected were hand delivered to and analyzed by AMA of Lanham, MD. AMA is accredited by the American Industrial Hygiene Association (AIHA) for microbial analysis and participates in the Environmental Microbiology Laboratory Accreditation Program (EMLAP).

## Guidance

The Occupational Safety and Health Administration's (OSHA) Permissible Exposure Limits (PELs) are the only enforceable regulatory standards for indoor air quality. However, other organizations such as the American Society of Heating Refrigeration and Air Conditioning Engineers (ASHRAE) and the Environmental Protection Agency (EPA) have developed widely accepted consensus standards that can be used to assess the suitability of indoor air quality.

### ASHRAE Standards

62.1-2013 and 55-2013 are consensus standards that outline acceptable practices for the design of ventilation systems in commercial and residential structures. Both documents were developed "to specify minimum ventilation rates and indoor air quality that will be acceptable to human occupants and are intended to minimize the potential for adverse health effects." The standards also consider chemical, physical, and biological contaminants and other factors that impact indoor air quality and affect occupant health and comfort.

ASHRAE 55-2013 recommends temperature and relative humidity ranges that are considered suitable for indoor air quality. Recommended ranges are as follows:

- Temperature be maintained between 67 and 82 degrees Fahrenheit (°F)
- Relative humidity to be maintained below 65%

### Carbon Dioxide

CO<sub>2</sub> is widely used as a surrogate gas in the assessment of indoor air quality. It is a byproduct of respiration and can be used to determine the effectiveness and/or management of building ventilation systems. Based on ASHRAE recommendations, indoor CO<sub>2</sub> concentrations that are below 1000 parts per million (ppm) or have a differential of less than 700 ppm compared to outside concentrations are considered to be suitable.

For example, if outside CO<sub>2</sub> concentrations are measured at 380 ppm, then indoor CO<sub>2</sub> concentrations measured up to 1080 ppm would be considered suitable.

### Carbon Monoxide

OSHA has established a PEL for CO of 35 ppm over a time weighted average (TWA) of 8 hours and a ceiling CO exposure limit of 200 ppm in a five-minute period. ASHARE has adopted the EPA National Ambient Air Quality Standard (NAAQS) for CO of 9 ppm when evaluating indoor air quality. In nonindustrial settings, the NAAQS standard is commonly used to assess the suitability of IAQ.

### Nonviable Airborne Fungi (Mold)

There are no set regulatory limits established for acceptable airborne fungi levels. However, indoor levels within schools and offices are generally lower than outdoor levels. The distribution of airborne species of fungi found in indoor air is expected to be similar in proportion to outside distributions. The type and concentrations of the airborne microorganisms can be used to determine if there is a potential hazard to occupants which requires action.

## Findings

### Indoor Air Quality

Indoor air quality measurements collected were satisfactory with respect to temperature, relative humidity, carbon dioxide (CO<sub>2</sub>), and carbon monoxide (CO). Recorded indoor air quality results are summarized in the following Table.

<b>Measurement Location</b>	<b>Temperature (°F)</b>	<b>Relative Humidity (%)</b>	<b>CO<sub>2</sub> (ppm)</b>	<b>CO (ppm)</b>
Cafetorium*	70.7	43.1	634	0.0
Room 15, Computer*	70.7	43.1	741	0.0
Media Center*	71.1	44.8	736	0.0
Classroom K1A	71.7	42.3	843	0.0
Classroom 23*	71.7	41.3	776	0.0
Classroom 34*	70.6	44.9	883	0.0
Open area by classroom 45	70.4	42.6	727	0.0
Classroom 43*	70.6	43.1	746	0.0
Main Office	71.6	45.2	683	0.0
Outdoors*	69.6	32.5	449	0.0

ppm – parts per million

\* - spore-trap sample

### Non-viable Airborne Fungi Sampling

Measured total indoor airborne fungi concentrations were determined have a normal ecology and with indoor airborne fungi concentrations lower than measured total outdoor fungi concentrations at this time. A complete laboratory analysis report is available for viewing in Attachment A.

### Visual Assessment

A walk-through of the hallways and a limited number of classrooms and public areas was carried out. No bathrooms, staff offices, mechanical rooms, kitchen areas or storage areas were visited. The school was in session at the time of the inspection.

The school was free of evidence of current water intrusion or any unexpected odors. Except as noted, floors, walls and ceiling tiles observed were in acceptable condition. The housekeeping was acceptable.

The following areas for further investigation or improvement were noted:

- Cafetorium – one stained ceiling tile next to exterior wall. Trace dirt on ceiling tiles and ventilation grilles.
- Media Center – discoloration, perhaps dirt or rust, on ceiling ventilation grilles and dust on wall vents.

### Conclusions & Recommendations

Indoor air quality spore trap measurements collected in all areas assessed were less than the levels measured outside the building and with the same predominate spore types found. This is an indication that the spores sampled in the rooms assessed are more likely to be originating in the outdoor environment rather than an interior source - reducing the chance of undetected overgrowth or colonization in the building. While there are no standards for airborne levels of mold, this approach of comparing indoor to outdoor, and looking at the species found, is one tool identified by organizations such as the American Industrial Hygiene Association when identifying assessment methods and improvement measurement in indoor air quality. Please note the following considerations for improvement:

- Identify the cause of any staining on ceiling tiles and fix
- Clean or paint HVAC grilles that are dirty or have become corroded

At this time, no other recommendations are provided.

Windjammer appreciates the opportunity to provide this indoor air quality assessment. If you have any questions or comments, please feel free to contact us at (888) 270 - 8387.

Best regards,



Damien Hammond Sr, MS, CSP, CIH  
President



Katherine (Kay) Dietrich, CIH, CSP  
Certified Industrial Hygienist

Attachment A: Microbial Laboratory Report (Air)

# Attachment A





## CERTIFICATE OF ANALYSIS

### ASTM D7391-09 Spore Trap Analysis Report

**Chain of Custody:** 614756  
**Client:** Windjammer Environmental  
**Address:** 6710 Oxon Hill Road  
 Suite 210  
 National Harbor, MD 20745  
**Attention:** K. Dietrich

**Job Name:** PGCPs IAQ  
**Job Location:** Indian Queen Elementary School  
**Job Number:** Not Provided  
**P.O. Number:** Not Provided

**Date Submitted:** 05/15/2019  
**Person Submitting:** K. Dietrich  
**Date Analyzed:** 05/22/2019  
**Report Date:** 05/22/2019

**AMA Sample #** 614756-4  
**Client ID** 190515-10  
**Analyst ID** TLW  
**Collection Apparatus** Air-O-Cell  
**Sample Volume (L)** 75  
**Sample Condition** Acceptable  
**Debris Loading** 1  
**Location** Class 23

**AMA Sample #** 614756-5  
**Client ID** 190515-11  
**Analyst ID** TLW  
**Collection Apparatus** Air-O-Cell  
**Sample Volume (L)** 75  
**Sample Condition** Acceptable  
**Debris Loading** 1  
**Location** Class 34

**AMA Sample #** 614756-6  
**Client ID** 190515-12  
**Analyst ID** TLW  
**Collection Apparatus** Air-O-Cell  
**Sample Volume (L)** 75  
**Sample Condition** Acceptable  
**Debris Loading** 2  
**Location** Class 43

	Raw Ct	Trav/Flds	A.S.	sp/m <sup>3</sup>	%
Alternaria					
Ascospores	1	15	52	52	16.7%
Basidiospores	3	15	52	156	50%
Bipolaris/Drechslera/Helm.					
Chaetomium					
Cladosporium	1	15	52	52	16.7%
Curvularia					
Penicillium / Aspergillus	1	15	52	52	16.7%
Smuts/Periconia/Myxomycetes					
Stachybotrys/Memnoniella					
Ulocladium					
Unknown					
Epicoccum					
Other Colorless					
Hyphal Fragments*					
<b>Total Raw Ct:</b>	6			<b>Total sp/m<sup>3</sup>:</b>	312

Comments

	Raw Ct	Trav/Flds	A.S.	sp/m <sup>3</sup>	%
Alternaria					
Ascospores					
Basidiospores	1	15	52	52	12.5%
Bipolaris/Drechslera/Helm.					
Chaetomium					
Cladosporium	4	15	52	208	50%
Curvularia					
Penicillium / Aspergillus	2	15	52	104	25%
Smuts/Periconia/Myxomycetes					
Stachybotrys/Memnoniella	1	15	52	52	12.5%
Ulocladium					
Unknown					
Epicoccum					
Other Colorless					
Hyphal Fragments*					
<b>Total Raw Ct:</b>	8			<b>Total sp/m<sup>3</sup>:</b>	416

Comments

	Raw Ct	Trav/Flds	A.S.	sp/m <sup>3</sup>	%
Alternaria					
Ascospores	2	15	52	104	13.3%
Basidiospores					
Bipolaris/Drechslera/Helm.					
Chaetomium					
Cladosporium	2	15	52	104	13.3%
Curvularia					
Penicillium / Aspergillus	3	15	52	156	20%
Smuts/Periconia/Myxomycetes	5	15	52	260	33.3%
Stachybotrys/Memnoniella					
Ulocladium					
Unknown	1	15	52	52	6.7%
Epicoccum					
Other Colorless	2	15	52	104	13.3%
Hyphal Fragments*					
<b>Total Raw Ct:</b>	15			<b>Total sp/m<sup>3</sup>:</b>	780

Comments

# CERTIFICATE OF ANALYSIS

## ASTM D7391-09 Spore Trap Analysis Report

**Chain of Custody:** 614756  
**Client:** Windjammer Environmental  
**Address:** 6710 Oxon Hill Road  
 Suite 210  
 National Harbor, MD 20745  
**Attention:** K. Dietrich

**Job Name:** PGPCS IAQ  
**Job Location:** Indian Queen Elementary School  
**Job Number:** Not Provided  
**P.O. Number:** Not Provided

**Date Submitted:** 05/15/2019  
**Person Submitting:** K. Dietrich  
**Date Analyzed:** 05/22/2019  
**Report Date:** 05/22/2019

**AMA Sample #** 614756-7  
**Client ID** 190515-13  
**Analyst ID** TLW  
**Collection Apparatus** Air-O-Cell  
**Sample Volume (L)** 75  
**Sample Condition** Acceptable  
**Debris Loading** 2  
**Location** Outdoors

	Raw Ct	Trav/Flds	A.S.	sp/m <sup>3</sup>	%
Alternaria					
Ascospores	39	15	52	2028	47.6%
Basidiospores	33	15	52	1716	40.2%
Bipolaris/Drechslera/Helm.					
Chaetomium					
Cladosporium	9	15	52	468	11%
Curvularia					
Penicillium / Aspergillus					
Smuts/Periconia/Myxomycetes	1	15	52	52	1.2%
Stachybotrys/Memnoniella					
Ulocladium					
Unknown					
Epicoccum					
Other Colorless					
Hyphal Fragments*					
<b>Total Raw Ct:</b>	82			<b>Total sp/m<sup>3</sup>:</b>	4264

**Comments**



## CERTIFICATE OF ANALYSIS

### ASTM D7391-09 Spore Trap Analysis Report

**Chain of Custody:** 614756  
**Client:** Windjammer Environmental  
**Address:** 6710 Oxon Hill Road  
Suite 210  
National Harbor, MD 20745  
**Attention:** K. Dietrich

**Job Name:** PGCPs IAQ  
**Job Location:** Indian Queen Elementary School  
**Job Number:** Not Provided  
**P.O. Number:** Not Provided

**Date Submitted:** 05/15/2019  
**Person Submitting:** K. Dietrich  
**Date Analyzed:** 05/22/2019  
**Report Date:** 05/22/2019

### General Comments, Disclaimers, and Footnotes

**Analytical Method:** Sample are analyzed following the instructions and guidelines outlined in ASTM 7391-09.

**Sample Condition:** Acceptable: The sample was collected and delivered to the our location without disturbing the material on the sampling media.  
Unacceptable: 1. The sample trace (TR) has been disturbed. 2. The sample was damaged or otherwise unsuitable for analysis.  
0 = No particulate matter detected; 1 = >nd-~5% Particulate Loading; 2 = ~5%-25% Particulate Loading; 3 = ~25%- 75% Particulate Loading; 4 = ~75%-90% Particulate Loading; 5 = >90% Particulate Loading

**Spore Notes:** Based on their small size and very few distinguishing characteristics, Aspergillus and Penicillium cannot be differentiated by non-viable sampling methods. There are other types of spores whose morphology is similar to Aspergillus and Penicillium and cannot be differentiated by non-viable sampling methods. Examples of these similar spores are Acremonium, Paecilomyces, Wallemia, Trichoderma, Scopulariopsis, and Gliocladium.  
Smuts, Periconia and Myxomycetes are three different types of genera that have similar morphological characteristics.  
Bipolaris/Dreschlera/Helm: Bipolaris / Dreschlera / Helminthosporium are three different types of genera that have smiliar morphological characteristics.  
Other Colorless represents all colorless spores that are non-distinctive and unidentifiable.  
\*Hyphal Fragments: A portion of the mycelium that becomes separated from the remainder of the thallus (vegetative body), each of which has the capacity to grow and form new individuals.  
Results for hyphal fragments are in fragments/m3 and are not incorporated in the total spore concentration.  
The droplet symbol (💧) refers to water-intrusion indicator spores. These fungal spores, when found on indoor air samples, can be an indication of moisture sources and resultant fungal growth that may be problematic.

**Quantification:** Analytical Sensitivity (A.S.): This is dependent on the volume of air collected, size of the trace, ocular diameter, and the amount of the trace that was analyzed.  
The value of "Present" indicated in the Raw Count column represents the presence of this spore type during the preliminary exam at 400x. The Raw Count converts to a whole number if the spore type is encountered again during the 600x-1,000x enumeration. The sp/m3 concentration will be reported as less than the analytical sensitivity if "Present" is reported in the Raw Count.  
Results are reported to 3 significant figures. sp/m3: Spores per cubic meter.  
Uncertainty: for raw count in the range of 0-50 the SR is 0.375, 51-100 SR=0.333, 101-200 SR=0.257, >200 SR=0.245  
All results are to be considered preliminary and subject to change unless signed by the Technical Director or Deputy.  
**Analyst(s):** Tristan Ward

  
\_\_\_\_\_  
**Technical Director** Tristan Ward

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client.

# MOLD SPORE DESCRIPTIONS

## Ascospores

Ascospores are spores formed inside an ascus (asci-plural) or sac-like cell which is contained inside a fruiting body called an ascocarp or an ascoma (ascomata-plural). An ascus typically contains a definite number of ascospores, usually eight. Ascospores are unique in shape, size, and color as to the Genus/species they represent. These spores are specific to fungi classified as Ascomycetes. They are ubiquitous in nature. Many decay organic matter, others are plant or animal pathogens. They can grow indoors on damp materials. Release of ascospores are released by forcible ejection and dispersed by wind, water, animals and other agents. Health Effects: Depending on the Genera, Ascospores may be allergenic.

## Basidiospores

Basidiospores are reproductive spores produced by a group of fungi called basidiomycetes. This group includes the mushrooms, shelf fungi and various other macrofungi. Basidiospores serve as the main air (wind) dispersal units for the fungi and their release is dependent upon moisture. The structure of the spore complex can develop in various manners resulting in different appearances. It is often found growing in soil, decaying plant debris, compost piles and fruit rot. Indoors, it can be found on water damaged building materials (chipboard /OSB, plywood, wallpaper, and glue) as well as on food items (dried foods, cheeses, fruits, herbs, spices, cereals). Health effects: Some basidiospores may produce toxins and can act as allergens. They have not been reported to be pathogens.

## Cladosporium

Cladosporium is the most common indoor and outdoor mold. The spores are wind dispersed and are often extremely abundant in outdoor air. Many species are commonly found on living and dead plant material. Indoors, they may grow on surfaces with high moisture or high humidity levels such as damp window sills, poorly ventilated bathrooms and soiled refrigerators. It produces powdery or velvety olive-green to brown or black colonies. The conidia (spores) vary depending on the species and are formed in simple or branching chains with multi-attachment points. Health Effects: Cladosporium species are rarely pathogenic to humans, but have been reported to occasionally cause sinusitis and pulmonary infections as well as infections of the skin and toenails. The airborne spores are significant allergens, and in large amounts they may severely affect asthmatics and people with respiratory diseases.

## Epicoccum

Epicoccum is a cosmopolitan fungus that is often found growing outside in soil, plant litter, decaying plants, and damaged plant tissue. Indoors, it can be found growing on a variety of building materials including paper and textiles. Colonies have a rapid growth rate with cottony texture, initially yellow or orange becoming brown to black in color. Conidiophores or fruiting bodies produce dense masses where conidia (spores) arise. Spores are round to pear-shaped, smooth to warty, brown to black in color and muriform (partitioned in both directions, like a soccer ball). Health Effects: This mold can act as a potential allergen. Some people may experience hay fever and or asthma. This mold has not been linked to any human or animal infection.

## Hyphal Fragments

Hyphal Fragments are segments or pieces of hyphae or mycelium that may have broken off during sampling (air, tape, dust). The mycelium is the entire mass of hyphae that makes up the vegetative body of a fungus. The presence of hyphal fragments may indicate the presence of viable mold.

## Memnoniella

Memnoniella is closely related Stachybotrys and they are often found growing together. Like Stachybotrys, it is a cosmopolitan fungus and commonly found in soil, plant debris as well as plants and trees. It is also cellulolytic or has the capacity to degrade cellulose and found on wet materials containing cellulose as well as other substrates. Unlike Stachybotrys, the spores form chains and not aggregated in slimy heads. Spores are spherical to sub-spherical, gray, dark brown or black in color, and smooth to rough walled. Colonies are black to blackish-green. Health Effects: Some species may produce mycotoxins with similar toxicities as some species of Stachybotrys. These mycotoxins may have the ability to infect humans and animals after ingestion, inhalation or absorption through unbroken skin.

## Other Colorless

- "Other Colorless" are all non-distinctive, unidentifiable, colorless spores seen on spore trap samples and include all the genera that do not have distinguishing morphology to belong to any of the other defined categories."

## Penicillium/Aspergillus Like

Penicillium and Aspergillus are ubiquitous, filamentous fungi that are found in soil, decaying plant debris, compost piles, and in the air. Indoors, spores are commonly found in house dust, in water-damaged buildings (wallpaper, wallpaper glue, decaying fabrics, moist chipboards, and behind paint) as well as fruit and grains. They are the most common fungal genera, worldwide. Both produce chains of spores that are small, round to oval, colorless or slightly pigmented, and smooth to rough walled. These spores are indistinguishable between the two as well as other genera, such as Gliocladium, Trichoderma, Paecilomyces, and Scopulariopsis. They differ as to their conidiophores or fruiting bodies. While, Aspergillus spores are produced from phialides supported on conidia heads or swollen vesicles, Penicillium spores are produced on finger-like projections. Depending on species, typical colonies of Aspergillus are initially white and later turn to either shades of green, yellow, orange, brown or black. Texture is usually velvety to cottony. Typical colonies of Penicillium, other than Penicillium marneffeii (yeast-like at 37°C), grow rapidly, white in color at first, later becoming bluish green with white borders with velvety to powdery textures depending on species. Some species produce radial patterns. Health Effects: Both Aspergillus and Penicillium are potential allergens. Several species of Aspergillus (*A. flavus* and *A. parasiticus*) produce aflatoxins or naturally occurring mycotoxins that are toxic and carcinogenic. These are found in contaminated foodstuff and are hazardous to consumers. Penicillium has only one known species that is pathogenic to humans (*P. marneffeii*) that causes lethal systemic infection (Penicilliosis) in immunocompromised individuals.

## Smuts/Periconia/Myxomycetes

Smuts, Periconia, and Myxomycetes spores are grouped together due to their similar round, brown morphology. Smuts are outdoor parasitic plant pathogens. They rarely grow indoors but may grow on host plants if appropriate conditions are present. They are parasitic plant pathogens. They can be found on cereal crops, grasses, flowering plants, weed, and other fungi. They can cause allergies. Periconia are found in soils, dead herbaceous stems and leaf spots, and grasses. They have wind dispersed dry spores. Their spores are abundant in the air but it is not known if they are allergenic. Myxomycetes are found on decaying logs, stumps and dead leaves. They have wind-dispersed dry spores and wet motile (amoebic phase) spores. During favorable conditions they move about like amoebae. They form dry airborne spores when conditions are unfavorable. They are rarely found indoors. Health Effects: They may cause Type 1 allergies (hay fever, asthma). No human infections have been reported.

## Stachybotrys

Stachybotrys is known as black mold or toxic black mold. It is a worldwide, filamentous fungus that is commonly found growing on water damaged materials such as ceiling tiles, insulation, wallpaper, wood, and sheetrock. It is highly cellulolytic (has the capacity to degrade cellulose) and commonly isolated on wet materials containing cellulose, such as wallboard, jute carpet backing along with associated glues, straw baskets, and paper materials. The spores are slimy, ellipsoidal to, sub-spherical in shape, single-celled, gray to black in color, and smooth to rough walled. They usually form in clusters on the phialides. Colonies have a powdery to cottony texture and white in color at first, later turning dark gray to black. Health Effects: Certain species of Stachybotrys produce mycotoxins that may be harmful to human and animal after ingestion. They can cause allergic and asthmatic reactions in sensitive individuals.

## Unknown Fungi

"Unknown Fungi" are spores that cannot be identified under direct microscopic analysis. This includes partial spores. This category also includes spores that are hidden or hard to see during microscopic examination due to heavy presence of particulate.



AMA Analytical Services, Inc.
Focused on Results www.amalab.com
AIHA (#100470) NVLAP (#101143-0) NY ELAP (10920)
4475 Forbes Blvd. • Lanham, MD 20706
(301) 459-2640 • (800) 346-0961 • Fax (301) 459-2643

CHAIN OF CUSTODY

(Please Refer To This Number For Inquires)

6014756

Mailing/Billing Information:

1. Client Name: Windhammer Enviro
2. Address 1: 6710 Oxon Hill Rd, Suite 210
3. Address 2: National Harbor MD
4. Address 3:
5. Phone #: 301-351-4213 Fax #:

Submittal Information:

1. Job Name: PGCPs 2AQ
2. Job Location: Indian Queen ES
3. Job #: P.O. #:
4. Contact Person: K. Dietrich @ phone # 301-351-4213
5. Submitted by: K. Dietrich Signature: [Signature]

Reporting Information (Results will be provided as soon as technically feasible):

Form with sections: AFTER HOURS (must be pre-scheduled), NORMAL BUSINESS HOURS, and REPORT TO: (Include COC/Field Data Sheets with Report, Email: dietrich@wjenviro.com, etc.)

Asbestos Analysis

PCM Air - Please Indicate Filter Type:
NIOSH 7400 (QTY)
Fiberglass (QTY)
TEM Air - Please Indicate Filter Type:
AHERA (QTY)
NIOSH 7402 (QTY)
Other (specify) (QTY)
PLM Bulk
EPA 600 - Visual Estimate (QTY)
EPA Point Count (QTY)
NY State Friable 198.1 (QTY)
Grav. Reduction ELAP 198.6 (QTY)
Other (specify) (QTY)
MISC
Vermiculite
Asbestos Soil PLM (Qual) PLM (Quan) PLM/TEM (Qual) PLM/TEM (Quan)

TEM Bulk

ELAP 198.4/Chatfield (QTY)
NY State PLM/TEM (QTY)
Residual Ash (QTY)

TEM Dust

Qual. (pres/abs) Vacuum/Dust (QTY)
Quan. (s/area) Vacuum D5755-95 (QTY)
Quan. (s/area) Dust D6480-99 (QTY)

TEM Water

Qual. (pres/abs) (QTY)
ELAP 198.2/EPA 100.2 (QTY)
EPA 100.1 (QTY)

All samples received in good condition unless otherwise noted. (TEM Water samples °C)

Metals Analysis

Pb Paint Chip (QTY)
Pb Dust Wipe (wipe type) (QTY)
Pb Air (QTY)
Pb Soil/Solid (QTY)
Pb TCLP (QTY)
Drinking Water Pb (QTY) Cu (QTY) As (QTY)
Waste Water Pb (QTY) Cu (QTY) As (QTY)
Pb Furnace (Media) (QTY)

Fungal Analysis

Collection Apparatus for Spore Traps/Air Samples:
Collection Media
Spore-Trap (QTY) Surface Vacuum Dust (QTY)
Surface Swab (QTY) Culturable ID Genus (Media) (QTY)
Surface Tape (QTY) Culturable ID Species (Media) (QTY)
Other (Specify) (QTY)

Table with columns: CLIENT ID NUMBER, SAMPLE INFORMATION (LOCATION, DATE, VOLUME, WIPE AREA), ANALYSIS (TEM, PCM, PLM, LEAD, MOLD, AIR, BULK, DUST, MATRIX), CLIENT CONTACT (LABORATORY STAFF ONLY). Rows include samples from Cafeteria, Rm 15, Media Ctr., Class 23, Class 34, Class 43, and outdoors.

LABORATORY STAFF ONLY: (CUSTODY)

1. Date/Time RCVD: 5/15/19 @ 12:20 Via: [Signature] By (Print): [Signature] Sign: [Signature]
2. Date/Time Analyzed: / / @ By (Print): Sign:
3. Results Reported To: Via: Date: / / Time: Initials:
4. Comments: