



August 19, 2019

Mr. Samuel Teague  
Facilities Manager  
**Delsea Regional High School District**  
Fries Mill Road  
Franklinville, NJ 08322

**RE: Indoor Air Quality Inspection Report – August 2019**  
**Delsea High School**  
**Epic Project No. 19-3330**

Dear Mr. Teague:

**Epic Environmental Services, LLC (Epic)** was retained by the Delsea Regional High School District (District) to perform indoor air quality inspections for eight randomly selected areas at the Delsea High School. The inspections consisted of visual observations and the collection of temperature and relative humidity data. Additionally, samples for airborne mold spores were collected in the inspection areas.

The visual inspections focused on signs of moisture, water intrusion, and visible mold growth.

Temperature and relative humidity data was compared to current New Jersey Indoor Air Quality and industry standards.

Epic Environmental performed the inspection August 8, 2019.

### **Acceptable Temperature, Relative Humidity, and Carbon Dioxide Criteria**

|   |                             |
|---|-----------------------------|
| <b>Acceptable Indoor Temperature Range:</b> | <b>68° - 79° Fahrenheit</b> |
| <b>Ideal Relative Humidity Range:</b>       | <b>30-60%</b>               |

The following rooms/areas were inspected:

Room E113, Room W101B, Room S114, Room S214, Room S204, Room C206, Room N104, Room C105

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**HEALTH**

Epic Environmental Services, LLC  
Tele: 856.205.1077

**SAFETY**

1930 Brown Road  
[www.epic-env.com](http://www.epic-env.com)

**ENVIRONMENT**

Newfield, New Jersey 08344  
Fax: 856.205.0413

## Observations, Comments, and Recommendations

**Weather: Sunny, 75° Fahrenheit, 85% Relative Humidity**

### **Room E113**

No visible mold was observed.  
No evidence of recent water intrusion was observed.  
Relative humidity was elevated (63%). Temperature was within the normal range.  
Airborne mold spore concentrations were near or below outside (background) concentrations.  
No action required at this time.

### **Room W101B**

No visible mold was observed.  
No evidence of recent water intrusion was observed.  
Relative humidity was within acceptable range (47%). Temperature was within the normal range.  
Airborne mold spore concentrations were near or below outside (background) concentrations.  
No action required at this time.

### **Room S114**

No visible mold was observed.  
No evidence of recent water intrusion was observed.  
Relative humidity was within acceptable range (59%). Temperature was within the normal range.  
Airborne mold spore concentrations were near or below outside (background) concentrations.  
No action required at this time.

### **Room S214**

Minor potential visible mold was observed under tables/on horizontal surfaces.  
No evidence of recent water intrusion was observed.  
Relative humidity was significantly elevated (75%). Temperature was within the normal range.  
Airborne mold spore concentrations were near or below outside (background) concentrations.  
Cleaning is recommended on horizontal surfaces/tables.

### **Room S204**

No visible mold was observed.  
No evidence of recent water intrusion was observed.  
Relative humidity was elevated (62%). Temperature was within the normal range.  
Airborne mold spore concentrations were near or below outside (background) concentrations.  
No action required at this time.

### **Room C206**

No visible mold was observed.  
No evidence of recent water intrusion was observed.  
Relative humidity was within acceptable range (59%). Temperature was within the normal range.  
Airborne mold spore concentrations were near or below outside (background) concentrations.  
No action required at this time.

### **Room N104**

No visible mold was observed.  
No evidence of recent water intrusion was observed.  
Relative humidity was within acceptable range (58%). Temperature was within the normal range.  
Airborne mold spore concentrations were near or below outside (background) concentrations.  
No action required at this time.

**Room C105**

No visible mold was observed.  
No evidence of recent water intrusion was observed.  
Relative humidity was within acceptable range (49%). Temperature was within the normal range.  
Airborne mold spore concentrations were near or below outside (background) concentrations.  
No action required at this time.

**Air Sample Results**

Air samples were collected in 8 random locations throughout the school. Airborne mold spore concentrations were near or below background (outside) concentrations.

See Sample Data Summary

**Conclusions**

- Assure steps are taken to reduce relative humidity to a maximum of 60% during the summer cooling season. Although most mold activity is not likely to start until extended periods of 75% or higher relative humidity are experienced, it is recommended to have the goal of 60%.

Please do not hesitate to contact me at 856-205-1077 should you have any questions.

An invoice for the completed project is enclosed.

Regards,



James Eberts  
President  
Epic Environmental Services, LLC

## Sample Data Summary

### Air Sampling

#### Air Samples August 8, 2019

| Air Sample Location | Airborne Mold Concentrations (spores/m <sup>3</sup> ) |                                |
|---------------------|---|--------------------------------|
|                     | Total   | Individual Mold Concentrations |
| Room E113           | 21,580  | Ascospores 80                  |
|                     |   | Basidiospores 21,100           |
|                     |   | Cladosporium 200               |
|                     |   | Unidentifiable Spores 200      |
| Room W101B          | 14,400  | Basidiospores 14,200           |
|                     |   | Unidentifiable Spores 200      |
| Room S114           | 39,060  | Ascospores 500                 |
|                     |   | Basidiospores 37,900           |
|                     |   | Cladosporium 500               |
|                     |   | Ganoderma 80                   |
|                     |   | Coelomyces 80                  |
| Room S214           | 89,420  | Ascospores 600                 |
|                     |   | Aspergillus/Penicillium 1000   |
|                     |   | Basidiospores 87,200           |
|                     |   | Cladosporium 300               |
|                     |   | Epicoccum 80                   |
|                     |   | Ganoderma 40                   |
| Room S204           | 35,980  | Ascospores 80                  |
|                     |   | Aspergillus/Penicillium 200    |
|                     |   | Basidiospores 35,700           |
| Room C206           | 19,800  | Basidiospores 19,800           |
| Room N104           | 56,060  | Ascospores 700                 |
|                     |   | Basidiospores 55,000           |
|                     |   | Cladosporium 200               |
|                     |   | Curvularia 80                  |
|                     |   | Ganoderma 80                   |
| Room C105           | 17,080  | Ascospores 200                 |
|                     |   | Basidiospores 16,800           |
|                     |   | Cladosporium 80                |

- Total mold counts found in **green** indicate a total airborne mold level NEAR or BELOW the outside (background) level.
- Total mold counts found in **red** indicate a total airborne mold level significantly ABOVE the outside (background) level, and may be an indicator of active mold growth.
- Individual molds listed in **green** indicate an individual airborne mold level NEAR or BELOW outside the (background) level.
- Individual molds listed in **purple** were not found in the background sample, but not considered evidence of a water/moisture issue or active mold growth.
- Individual molds listed in **red** indicate an individual airborne mold level significantly ABOVE the outside (background) level, and may be an indicator of active mold growth in the area.

Airborne mold spore concentrations were near or below background (outside) concentrations.

#### HEALTH

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#### SAFETY

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#### ENVIRONMENT

Newfield, New Jersey 08344  
 Fax: 856.205.0413

## Sample Data Summary

### Air Sampling

| Air Samples           |   | August 8, 2019                 |         |
|-----------------------|---|--------------------------------|---------|
| Air Sample Location   | Airborne Mold Concentrations (spores/m <sup>3</sup> ) |                                |         |
|                       | Total   | Individual Mold Concentrations |         |
| Outside by Greenhouse | 156,420   | Ascospores                     | 3700    |
|                       |   | Aspergillus/Penicillium        | 200     |
|                       |   | Basidiospores                  | 150,000 |
|                       |   | Bipolaris++                    | 80      |
|                       |   | Cladosporium                   | 1,800   |
|                       |   | Unidentifiable Spores          | 200     |
|                       |   | Cercospora++                   | 80      |
|                       |   | Coelomycetes                   | 80      |
|                       |   | Polythrincium                  | 80      |
|                       |   | Pyricularia                    | 200     |

- Total mold counts found in **green** indicate a total airborne mold level NEAR or BELOW the outside (background) level.
- Total mold counts found in **red** indicate a total airborne mold level significantly ABOVE the outside (background) level, and may be an indicator of active mold growth.
- Individual molds listed in **green** indicate an individual airborne mold level NEAR or BELOW outside the (background) level.
- Individual molds listed in **purple** were not found in the background sample, but not considered evidence of a water/moisture issue or active mold growth.
- Individual molds listed in **red** indicate an individual airborne mold level significantly ABOVE the outside (background) level, and may be an indicator of active mold growth in the area.

Airborne mold spore concentrations were near or below background (outside) concentrations.

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# EMSL Analytical, Inc.

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<http://www.EMSL.com> / [cinnmicrolab@emsl.com](mailto:cinnmicrolab@emsl.com)

Order ID: 371917620  
Customer ID: EPIC62  
Customer PO: 19-3330  
Project ID:

**Attn:** James Eberts  
Epic Environmental Services, LLC  
1930 Brown Road  
Newfield, NJ 08344

**Phone:** (856) 205-1077  
**Fax:** (856) 205-0413  
**Collected:** 08/08/2019  
**Received:** 08/09/2019  
**Analyzed:** 08/15/2019

**Proj:** Delsea BOE - High School

### Test Report: Micro-5(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| Lab Sample Number:        | 371917620-0001        |                      |            | 371917620-0002 |                      |            | 371917620-0003 |                      |            |
|---------------------------|-----------------------|----------------------|------------|----------------|----------------------|------------|----------------|----------------------|------------|
| Client Sample ID:         | DHS-01                |                      |            | DHS-02         |                      |            | DHS-03         |                      |            |
| Volume (L):               | 25                    |                      |            | 25             |                      |            | 26             |                      |            |
| Sample Location:          | Outside By Greenhouse |                      |            | E113           |                      |            | W101B          |                      |            |
| Spore Types               | Raw Count             | Count/m <sup>2</sup> | % of Total | Raw Count      | Count/m <sup>2</sup> | % of Total | Raw Count      | Count/m <sup>2</sup> | % of Total |
| Alternaria (Ulocladium)   | -                     | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Ascospores                | 46                    | 3700                 | 2.4        | 1              | 80                   | 0.4        | -              | -                    | -          |
| Aspergillus/Penicillium   | 3                     | 200                  | 0.1        | -              | -                    | -          | -              | -                    | -          |
| Basidiospores             | 1880                  | 150000               | 95.9       | 264            | 21100                | 97.8       | 178            | 14200                | 98.6       |
| Bipolaris++               | 1                     | 80                   | 0.1        | -              | -                    | -          | -              | -                    | -          |
| Chaetomium                | -                     | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Cladosporium              | 22                    | 1800                 | 1.2        | 2              | 200                  | 0.9        | -              | -                    | -          |
| Curvularia                | -                     | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Epicoccum                 | -                     | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Fusarium                  | -                     | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Ganoderma                 | -                     | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Myxomycetes++             | -                     | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Pithomyces++              | -                     | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Rust                      | -                     | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Scopulariopsis/Microascus | -                     | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Stachybotrys/Memnoniella  | -                     | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Unidentifiable Spores     | 3                     | 200                  | 0.1        | 2              | 200                  | 0.9        | 2              | 200                  | 1.4        |
| Zygomycetes               | -                     | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Cercospora++              | 1                     | 80                   | 0.1        | -              | -                    | -          | -              | -                    | -          |
| Coelomycetes              | 1                     | 80                   | 0.1        | -              | -                    | -          | -              | -                    | -          |
| Polythrincium             | 1                     | 80                   | 0.1        | -              | -                    | -          | -              | -                    | -          |
| Pyricularia               | 2                     | 200                  | 0.1        | -              | -                    | -          | -              | -                    | -          |
| <b>Total Fungi</b>        | <b>1960</b>           | <b>156420</b>        | <b>100</b> | <b>269</b>     | <b>21580</b>         | <b>100</b> | <b>180</b>     | <b>14400</b>         | <b>100</b> |
| Hyphal Fragment           | -                     | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Insect Fragment           | -                     | -                    | -          | -              | -                    | -          | 1*             | 40*                  | -          |
| Pollen                    | 3                     | 200                  | -          | -              | -                    | -          | -              | -                    | -          |
| Analyt. Sensitivity 600x  | -                     | 80                   | -          | -              | 80                   | -          | -              | 80                   | -          |
| Analyt. Sensitivity 300x  | -                     | 40*                  | -          | -              | 40*                  | -          | -              | 40*                  | -          |
| Skin Fragments (1-4)      | -                     | 1                    | -          | -              | 3                    | -          | -              | 3                    | -          |
| Fibrous Particulate (1-4) | -                     | 3                    | -          | -              | 1                    | -          | -              | 1                    | -          |
| Background (1-5)          | -                     | 3                    | -          | -              | 2                    | -          | -              | 2                    | -          |

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

Vincent Iuzzolino, M.S., Laboratory Director  
or Other Approved Signatory

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

High levels of background particulate can obscure spores and other particulates, leading to underestimation. Background levels of 5 indicate an overloading of background particulate, 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. \*\* Detects particles found at 300x. \* Detects not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. 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 reflects the samples as received. When the information supplied by the customer can affect the validity of the result, it will be noted on the report. Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ APHA-LAP, LLC-EMSLAP Lab 100194

Initial report from: 08/16/2019 11:51:48

For Information on the fungi listed in this report please visit the Resources section at [www.emsl.com](http://www.emsl.com)



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**Attn:** James Eberts  
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1930 Brown Road  
Newfield, NJ 08344

Phone: (856) 205-1077  
Fax: (856) 205-0413  
Collected: 08/08/2019  
Received: 08/09/2019  
Analyzed: 08/15/2019

**Proj:** Delsea BOE - High School

### Test Report: Micro-5™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| Lab Sample Number:        | 371917620-0004 |                      |            | 371917620-0005 |                      |            | 371917620-0006 |                      |            |
|---------------------------|----------------|----------------------|------------|----------------|----------------------|------------|----------------|----------------------|------------|
| Client Sample ID:         | DHS-04         |                      |            | DHS-05         |                      |            | DHS-06         |                      |            |
| Volume (L):               | 25             |                      |            | 25             |                      |            | 25             |                      |            |
| Sample Location:          | S114           |                      |            | S214           |                      |            | S204           |                      |            |
| Spore Types               | Raw Count      | Count/m <sup>2</sup> | % of Total | Raw Count      | Count/m <sup>2</sup> | % of Total | Raw Count      | Count/m <sup>2</sup> | % of Total |
| Alternaria (Ulocladium)   | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Ascospores                | 6              | 500                  | 1.3        | 8              | 600                  | 0.7        | 1              | 80                   | 0.2        |
| Aspergillus/Penicillium   | -              | -                    | -          | 13             | 1000                 | 1.1        | 2              | 200                  | 0.6        |
| Basidiospores             | 474            | 37900                | 97         | 1090           | 87200                | 97.5       | 446            | 35700                | 99.2       |
| Bipolaris++               | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Chaetomium                | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Cladosporium              | 6              | 500                  | 1.3        | 4              | 300                  | 0.3        | -              | -                    | -          |
| Curvularia                | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Epicoccum                 | -              | -                    | -          | 1              | 80                   | 0.1        | -              | -                    | -          |
| Fusarium                  | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Ganoderma                 | 1              | 80                   | 0.2        | 1*             | 40*                  | 0          | -              | -                    | -          |
| Myxomycetes++             | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Pithomyces++              | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Rust                      | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Scopulariopsis/Microascus | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Stachybotrys/Memnoniella  | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Unidentifiable Spores     | -              | -                    | -          | 2              | 200                  | 0.2        | -              | -                    | -          |
| Zygomycetes               | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Cercospora++              | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Coelomycetes              | 1              | 80                   | 0.2        | -              | -                    | -          | -              | -                    | -          |
| Polythrincium             | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Pyricularia               | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| <b>Total Fungi</b>        | <b>488</b>     | <b>39080</b>         | <b>100</b> | <b>1119</b>    | <b>89420</b>         | <b>100</b> | <b>449</b>     | <b>35980</b>         | <b>100</b> |
| Hyphal Fragment           | -              | -                    | -          | -              | -                    | -          | 2              | 200                  | -          |
| Insect Fragment           | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Pollen                    | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Analyt. Sensitivity 600x  | -              | 80                   | -          | -              | 80                   | -          | -              | 80                   | -          |
| Analyt. Sensitivity 300x  | -              | 40*                  | -          | -              | 40*                  | -          | -              | 40*                  | -          |
| Skin Fragments (1-4)      | -              | 3                    | -          | -              | 3                    | -          | -              | 2                    | -          |
| Fibrous Particulate (1-4) | -              | 1                    | -          | -              | 1                    | -          | -              | 1                    | -          |
| Background (1-5)          | -              | 4                    | -          | -              | 2                    | -          | -              | 2                    | -          |

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

Vincent Iuzzolino, M.S., Laboratory Director  
or Other Approved Signatory

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

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 plating rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. 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 reflects the samples as received. When the information supplied by the customer can affect the validity of the result, it will be noted on the report. Seminars analyzed by EMSL Analytical, Inc. Cinnaminson, NJ. AHA-LAP, LLC-EMSLAP Lab 100194

Initial report from: 08/16/2019 11:51:48

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 Epic Environmental Services, LLC  
 1930 Brown Road  
 Newfield, NJ 08344

Phone: (856) 205-1077  
 Fax: (856) 205-0413  
 Collected: 08/08/2019  
 Received: 08/09/2019  
 Analyzed: 08/15/2019

Proj: Delsea BOE - High School

### Test Report: Micro-6(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| Lab Sample Number:        | 371917620-0007 |                      |            | 371917620-0008 |                      |            | 371917620-0009 |                      |            |
|---------------------------|----------------|----------------------|------------|----------------|----------------------|------------|----------------|----------------------|------------|
| Client Sample ID:         | DHS-07         |                      |            | DHS-08         |                      |            | DHS-09         |                      |            |
| Volume (L):               | 26             |                      |            | 26             |                      |            | 26             |                      |            |
| Sample Location:          | C206           |                      |            | N104           |                      |            | C105           |                      |            |
| Spore Types               | Raw Count      | Count/m <sup>3</sup> | % of Total | Raw Count      | Count/m <sup>3</sup> | % of Total | Raw Count      | Count/m <sup>3</sup> | % of Total |
| Alternaria (Ulocladium)   | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Ascospores                | -              | -                    | -          | 9              | 700                  | 1.2        | 2              | 200                  | 1.2        |
| Aspergillus/Penicillium   | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Basidiospores             | 248            | 19800                | 100        | 688            | 55000                | 98.1       | 210            | 16800                | 98.4       |
| Bipolaris**               | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Chaetomium                | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Cladosporium              | -              | -                    | -          | 2              | 200                  | 0.4        | 1              | 80                   | 0.5        |
| Curvularia                | -              | -                    | -          | 1              | 80                   | 0.1        | -              | -                    | -          |
| Epicoccum                 | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Fusarium                  | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Ganoderma                 | -              | -                    | -          | 1              | 80                   | 0.1        | -              | -                    | -          |
| Myxomycetes**             | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Phanerochaete**           | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Rust                      | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Scopulariopsis/Microascus | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Stachybotrys/Memnoniella  | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Unidentifiable Spores     | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Zygomycetes               | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Cercospora**              | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Coelomycetes              | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Polythrincium             | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Pyricularia               | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| <b>Total Fungi</b>        | <b>248</b>     | <b>19800</b>         | <b>100</b> | <b>701</b>     | <b>56000</b>         | <b>100</b> | <b>213</b>     | <b>17080</b>         | <b>100</b> |
| Hyphal Fragment           | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Insect Fragment           | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Pollen                    | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Analyt. Sensitivity 600x  | -              | 80                   | -          | -              | 80                   | -          | -              | 80                   | -          |
| Analyt. Sensitivity 300x  | -              | 40*                  | -          | -              | 40*                  | -          | -              | 40*                  | -          |
| Skin Fragments (1-4)      | -              | 3                    | -          | -              | 3                    | -          | -              | 3                    | -          |
| Fibrous Particulate (1-4) | -              | 1                    | -          | -              | 1                    | -          | -              | 1                    | -          |
| Background (1-5)          | -              | 2                    | -          | -              | 2                    | -          | -              | 2                    | -          |

\*\* Includes other spores with similar morphology, see EMSL's fungal glossary for each specific category.

Vincent Iuzzolino, M.S., Laboratory Director  
 or Other Approved Signatory

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

High levels of background particulate can obscure spores and other particulates, leading to underenumeration. Background levels of 5 indicate an overloading of background particulate, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection level 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 190 are extrapolated based on the percentage analyzed. 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 reflects the samples as received. When the information supplied by the customer can affect the validity of the result, it will be noted on the report. Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AHA-LAP, LLC-EMLAP Lab 100164

Initial report from: 08/16/2019 11:51:48

For Information on the fungi listed in this report please visit the Resources section at [www.emsl.com](http://www.emsl.com)



# Environmental Microbiology Chain of Custody EMSL

**EMSL Order Number (Lab Use Only):**

Westmont, NJ  
 107 Haddon Avenue  
 Westmont, NJ 08108  
 PHONE: (856) 858-4800  
 FAX: (856) 858-4080



19 AUG -9 AM 10:15

|  |   |
|--|---|
| <b>Company:</b> Epic Environmental Services, LLC | <b>EMSL Bill to:</b> <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different<br>If Bill to is Different note instructions in Comments**<br><i>Third Party Billing requires written authorization from third party</i> |
| <b>Street:</b> 1930 Brown Road                   |   |

**City/State/Zip:** Newfield, NJ 08344

**Report To (Name):** James Eberts **Fax:** 856-205-0413

**Telephone:** 856-205-1077 **Email Address:** jeberts@epicenviro.com

**Project Name/Number:** Delsea BOE High School

**Please Provide Results:** Email **Purchase Order:** 19-3330 **State Samples Taken:** NJ

**Turnaround Time (TAT) Options\* - Please Check**

3 Hour  
  6 Hour  
  24 Hour  
  48 Hour  
  72 Hour  
  96 Hour  
  1 Week  
  2 Week

\*Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements

**Non Culturable Air Samples (Spore Traps)**

|                       |                  |                    |                     |                   |
|-----------------------|------------------|--------------------|---------------------|-------------------|
| • M001 Air-O-Cell     | • M173 Alogro M2 | • M004 Allergenco  | • M032 Allergenco-D | • M172 Versa Trap |
| • M002 BioSIS         | • M003 Burkard   | • M043 Cyclex      | • M002 Cyclex-d     |                   |
| • <u>M030 Micro 5</u> | • M174 MoldSnap  | • M176 Relle Smart | • M136 Via-Cell     |                   |

**Other Microbiology Test Codes**

|   |  |  |
|---|--|--|
| <ul style="list-style-type: none"> <li>• M041 Fungal Direct Examination</li> <li>• M005 Viable Fung ID and Count</li> <li>• M006 Viable Fung ID and Count (Speciation)</li> <li>• M007 Culturable Fung</li> <li>• M008 Culturable Fung (Speciation)</li> <li>• M009 Gram Stain Culturable Bacteria</li> <li>• M010 Bacterial Count and ID - 3 Most Prominent</li> <li>• M011 Bacterial Count and ID - 5 Most Prominent</li> <li>• M012 Sewage Contamination in Buildings</li> </ul> | <ul style="list-style-type: none"> <li>• M014 Endotoxin Analysis</li> <li>• M015 Heterotrophic Plate Count</li> <li>• M100 Real Time Q-PCR-ERMI 36 Panel</li> <li>• M018 Total Coliform (Membrane Filtration)</li> <li>• M020 Fecal Streptococcus (Membrane Filtration)</li> <li>• M210-215 Legionella Detection</li> <li>• M024 Recreational Water Screen</li> <li>• M027 Mycotoxin Analysis</li> </ul> | <ul style="list-style-type: none"> <li>• M029 Enterococci</li> <li>• M019 Fecal Coliform</li> <li>• M133 MRSA Analysis</li> <li>• M026 Cryptococcus neoformans Detection</li> <li>• M126 Histoplasma capsulatum Detection</li> <li>• M033-39 Allergen Testing</li> <li>• M044 Group Allergen (Cat, Dog, Cockroach, Dustmites)</li> <li>• Other See Analytical Price Guide</li> </ul> |
|---|--|--|

**Preservation Method (Water):**

**Name of Sampler:** James Eberts **Signature of Sampler:** *[Signature]*

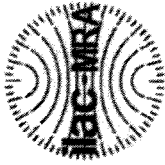
| Sample # | Sample Location       | Sample Type | Test Code | Volume/Area          | Date/Time Collected |
|----------|-----------------------|-------------|-----------|----------------------|---------------------|
| DHS-01   | Outside by greenhouse | Air         | M030      | Sum <del>5</del> 25L | 8/19/19 0950        |
| DHS-02   | R 113                 |             |           |                      | 1004 1045B          |
| DHS-03   | W101B                 |             |           |                      | 1002 1008           |
| DHS-04   | S114                  |             |           |                      | 1016                |
| DHS-05   | S214                  |             |           |                      | 1030                |
| DHS-06   | S204                  |             |           |                      | 1039                |
| DHS-07   | C206                  |             |           |                      | 1048                |
| DHS-08   | N104                  |             |           |                      | 1057                |
| DHS-09   | C105                  |             |           |                      | 1111                |

**Client Sample # (s):** DHS-01 - DHS-09 **Total # of Samples:** 9 *[initials]*

**Relinquished (Client):** *[Signature]* **Date:** 8/19/19 **Time:** 1011

**Received (Client):** *[Signature]* **Date:** 8/19/19 **Time:** 10:15 am

**Comments/Special Instructions:**



## AIHA Laboratory Accreditation Programs, LLC

*acknowledges that*

### **EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077  
Laboratory ID: 100194

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

#### **LABORATORY ACCREDITATION PROGRAMS**

- INDUSTRIAL HYGIENE**      Accreditation Expires: November 01, 2020
- ENVIRONMENTAL LEAD**      Accreditation Expires: November 01, 2020
- ENVIRONMENTAL MICROBIOLOGY**      Accreditation Expires: November 01, 2020
- FOOD**      Accreditation Expires:
- UNIQUE SCOPES**      Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website ([www.aihaaccreditedlabs.org](http://www.aihaaccreditedlabs.org)) for the most current Scope.

*Elizabeth Bair*

Elizabeth Bair  
Chairperson, Analytical Accreditation Board

Revision 17 – 09/11/2018

*Cheryl O. Morton*

Cheryl O. Morton  
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Date Issued: 11/30/2018