

Indoor Air Quality Chain of Custody  
EMSL Order Number (Lab Use Only):

Westmont, NJ  
3 Cooper Street  
Westmont, NJ 08108  
PHONE: 1-800-220-3675  
FAX: (856) 858-4960

*OB 8/10*  
SAMPLES ACCEPTED  
FOR ANALYSIS BY  
EMSL ANALYST

Company: Birdsal		EMSL Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments*</small>	
Street: 1415 wyckoff rd		Third Party Billing requires written authorization from third party	
City/State/Zip: Farmingdale, NJ 07727			
Report To (Name): Brian Nemetz		Fax:	
Telephone: 7327510799		Email Address: bnemetz@birdsall.com	
Project Name/Number: <i>07205 - 105000</i>			
Please Provide Results: Email		Purchase Order:	State Samples Taken: NJ
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week <small>*For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in Business Days rather than Hours. Ex. 24 Hour - End of Next Business Day</small>			
<b>Asbestos</b>			
<b>PCM - Air</b> <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ 8hr TWA <b>TEM - Air</b> <small>A-4 for TAT (AHERA ONLY)</small> <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	<b>PLM - Bulk</b> <input type="checkbox"/> PLM EPA 800/R-93/118 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 188.1 (friable-NY) <input type="checkbox"/> NYS 198.8 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	<b>TEM - Bulk</b> <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.A (non-friable-NY) <input type="checkbox"/> Chatfield SOP <b>Soil/Rock/Vermiculite</b> <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative)	
<b>TEM - Water</b> Fibers > 5µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	<b>TEM - Dust</b> <input type="checkbox"/> Microvac - ASTM D 6765 <input type="checkbox"/> Wipe-ASTM D6488	<b>Other:</b>	
<b>Lead (Pb)</b>		<b>Materials Science</b>	
<b>Flame Atomic Absorption</b> <input type="checkbox"/> Chips SW846-7000B or ACAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SW811B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non-ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> TCLP SW846-1311/7420/SM 3111D	<b>ICP</b> <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non-ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C	<input type="checkbox"/> Common Particle ID (large particles) <input type="checkbox"/> Full Particle ID (environmental dust) <input type="checkbox"/> Basic Material ID (solids) <input type="checkbox"/> Advanced Material ID <input type="checkbox"/> Physical Testing (Tensile, Compression) <input type="checkbox"/> Combustion-by-products (soot, char, etc.) <input type="checkbox"/> X-Ray Fluorescence (elem. analysis) <input type="checkbox"/> X-Ray Diffraction (Crystaline Part.) <input type="checkbox"/> MMVF's (Fibrous glass, RCF's) <input type="checkbox"/> Particle Size (eleven/microtopography) <input type="checkbox"/> Combustible Dust <input type="checkbox"/> Petrographic Examination Other:	
<b>Graphite Furnace Atomic Absorption</b> <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9	<b>Other:</b>		
<b>Microbiology</b>			
<b>Wipe and Bulk Samples</b> <input checked="" type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> <i>Pseudomonas aeruginosa</i>	<b>Air Samples</b> <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endospore Testing <b>Real Time q-PCR</b> (See Analytical Guide for Code) Code:	<b>IAQ</b>	
<b>Water Samples</b> <input type="checkbox"/> Total Coliform & E.coli (P/A) <input type="checkbox"/> Fecal Coliform (SM 9222D) <input type="checkbox"/> Sewage Screen <input type="checkbox"/> Heterotrophic Plate Count (SM 9215)	<b>Legionella</b> <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <b>Other:</b>	Nuisance Dust NIOSH <input type="checkbox"/> 0500 <input type="checkbox"/> 0600 Airborne Dust <input type="checkbox"/> PM10 <input type="checkbox"/> TSP Silica Analysis: <input type="checkbox"/> All Species Silica Analysis - Single Species <input type="checkbox"/> Alpha Quartz <input type="checkbox"/> Cristobalite <input type="checkbox"/> Tridymite <input type="checkbox"/> HVAC Efficiency <input type="checkbox"/> Carbon Black <input type="checkbox"/> Airborne Oil Mist Radon Testing: Call for Kit and COC Other:	
Client Sample #'s		Total # of Samples: <i>11</i>	
Relinquished (Client): <i>[Signature]</i>	Date: <i>8/9/11</i>	Time:	
Received (Lab): <i>[Signature]</i>	Date: <i>8/9/11 12:45 PM</i>	Time:	
Comments/Special Instructions: <i>Received: [Signature] 08-09-11 19:35</i> <i>Relinquished: [Signature] 08-09-11 22:05</i>			

2011 AUG 10 AM 6:28  
CINNAMON

*Read-OMB-COUR-BA 8-10-11*

Indoor Air Quality Chain of Custody  
EMSL Order Number (Lab Use Only):

Westmont, NJ  
3 Cooper Street  
Westmont, NJ 08108  
PHONE: 1-800-220-3675  
FAX: (856) 858-4980

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
V1	Daisy Ortiz	2 ft <sup>3</sup>	8/8/11
V2	IDRC	↓	↓
V3	Youth Commissioner Series	↓	↓
V4	Labor management operating	↓	↓
V5	Human Services	↓	↓
S1	Daisy Ortiz	2 ft <sup>3</sup>	8/9/11
S2	Youth Commissioner Series	↓	↓
S3	IDRC	↓	↓
S4	Labor management	↓	↓
S5	Human Services	↓	↓
C1	2nd Carpet Square Analyze TO-15 + TICs 3 week Turn around		

CB  
MOH

micro

CB  
MOH

TO15

mold  
direct  
read

culture  
Bacteria

Comments/Special Instructions: as per Scott 1055

2011 AUG 10 AM 6:28  
CINNAMIN  
ENT



EMSL ANALYTICAL, INC.  
CERTIFIED - ISO 17025

TO-15

### External Chain of Custody/ Field Test Data Sheet

EMSL Analytical, Inc.  
200 Route 130 North  
Cinnaminson, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-0327

EMSL Order Number (Lab Use Only): 491100675

Report To Contact Name: Biana Sametz  
 Company Name: B SCE  
 Address 1: 1415 Wyckoff road  
 Address 2: Farmingdale NJ 07727  
 Phone: 732 957 0999 Fax:   
 Bill To Company: Biana Sametz  
 Attention To: Biana P. Sametz  
 Total# of Samples in Shipment: 3  
 Date of Shipment: 8/9/11  
 U.S. State Samples Collected: NJ

Sampled By (Sign): [Signature]  
 Sampled By (Print): Biana P. Sametz  
 Purchase Order: 07205-10500

Turnaround Time (in Business Days):  3 Day  2 Day  1 Day  5 Day  
 Reporting Format:  Results Only (Standard Lab Report)  Full Deliverables (Surcharge may apply)  Other:  
 NJDEP Information (if applicable): Bureau: SPX Easting NJDEP Contract Number:   
 NJ State Plane Coordinates and Elevation (US Feet) if applicable:  SPY North:  Elevation:

Client Field Sample Identification	Sampling Start Information				Sampling Stop Information				Canister Information				Flow Controller				Analysis	Matrix	
	Start Date	Time (24 hr clock)	Canister Pressure (inHg)	Interior Temp (F)	Time (24 hr clock)	Canister Pressure (inHg)	Interior Temp (F)	Barometric Pres. (inHg)	Canister ID	Size (L)	Can Cert Batch ID	Outgoing Pressure (inHg)	Incoming Pressure (inHg)	Reg. ID	Cal Flow (ml/min)	Other (Specify)			Soil Gas
<u>Labor Management</u>	<u>8/15/11</u>	<u>1047</u>	<u>29.973.8</u>	<u>81.1</u>	<u>1046</u>	<u>-1.0</u>	<u>72.6</u>	<u>29.8</u>	<u>E0451</u>	<u>6</u>	<u>C2386</u>	<u>-0.4</u>	<u>-0.4</u>	<u>3528</u>	<u>3.5</u>	<u>X</u>			
<u>Youth Services</u>	<u>8/15/11</u>	<u>1041</u>	<u>29.871.6</u>	<u>72.1</u>	<u>1038</u>	<u>-2.9</u>	<u>72.1</u>	<u>29.8</u>	<u>E0354</u>	<u>1</u>	<u>1</u>	<u>-1.5</u>	<u>-1.5</u>	<u>3713</u>	<u>3.5</u>	<u>X</u>			
<u>Daisy Ortiz</u>	<u>8/15/11</u>	<u>1034</u>	<u>29.871.4</u>	<u>71.4</u>	<u>1021</u>	<u>-1.0</u>	<u>71.1</u>	<u>29.8</u>	<u>E0357</u>	<u>1</u>	<u>1</u>	<u>-0.8</u>	<u>-0.8</u>	<u>3643</u>	<u>3.5</u>	<u>X</u>			

Comments:   
 Lab Canister Certification Analyst Signature (TO-15):

Relinquished by:	Date/Time	Received by:	Date/Time	Affixed Seal #	Reason for Exchange (circle appropriate)
<u>[Signature]</u>	<u>8/11/11 17:35</u>	<u>[Signature]</u>	<u>8-5-11 11:50AM</u>	<u></u>	Shipping <input checked="" type="checkbox"/> Receiving <input type="checkbox"/> Sampling <input type="checkbox"/> Other: <input type="checkbox"/>
<u>[Signature]</u>	<u>8/11/11 12:45</u>	<u>[Signature]</u>	<u>8/9/11 12:45 PM</u>	<u></u>	Shipping <input type="checkbox"/> Courier <input type="checkbox"/> Receiving <input type="checkbox"/> Sampling <input type="checkbox"/> Other: <input type="checkbox"/>
<u>[Signature]</u>	<u>08-09-11 21:55</u>	<u>[Signature]</u>	<u>08-09-11 19:35</u>	<u></u>	Shipping <input type="checkbox"/> Courier <input type="checkbox"/> Receiving <input type="checkbox"/> Sampling <input type="checkbox"/> Other: <input type="checkbox"/>
<u>[Signature]</u>	<u>8-10-11</u>	<u>[Signature]</u>	<u>8-10-11</u>	<u></u>	Shipping <input type="checkbox"/> Courier <input type="checkbox"/> Receiving <input checked="" type="checkbox"/> Sampling <input type="checkbox"/> Other: <input type="checkbox"/>



EMSL ANALYTICAL, INC.

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-0380

## TO-15: - How To Read and Interpret Your Report

When scanning your results, the rows which are highlighted in yellow indicate that compound was found in the sample. Results are reported in both parts per billion volume (ppbv), and is also expressed in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) which is the concentration in weight of the substance per volume of air.

### Common Indoor Contaminants;

<u>Chemical</u>	<u>Common Indoor Uses</u>	<u>Typical Concentrations</u>	<u>OSHA PELs</u>
Ethanol	beverages, cleaners, disinfectants, perfumes, paints, and lacquers	25 to 400 ppb	1,000,000 ppb
Isopropanol	cleaners, disinfectants, quick drying inks, alcohol swabs, and perfumes	50 - 200 ppb	400,000 ppb
Acetone	cleaners, inks, nail polish remover	2 to 20 ppb	1,000,000 ppb
2-Butanone (MEK)	cleaners, disinfectants	2 to 20 ppb	200,000 ppb
Ethyl Acetate	cleaners, disinfectants	2 to 20 ppb	400,000 ppb
Freons, various	Refrigerants, propellants, foam blowing agents	1 to 10 ppb	1,000,000 ppb
Toluene	Paints, inks, solvents, gasoline	2 to 10 ppb	200,000 ppb
Xylenes	Paints, inks, solvents, gasoline	2 to 10 ppb	100,000 ppb

Freons are common refrigerants and often seen in air samples. Elevated levels of freons can indicate leaks from refrigerators and air conditioners. Aerosol sprays and foam products also contribute freons and / or propanes and butanes to indoor air.



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Benzene, toluene, ethylbenzene, and xylenes are components of gasoline.  
Toluene and xylenes can be found in solvent based products such as oil based paints.

If a Library search is indicated, normal and substituted hydrocarbons in the octane to dodecane (C8 to C12) range can indicate the presence of diesel oil, fuel oil, or mineral spirits. Unknown hydrocarbons often indicate weathered petroleum compounds from old spills. Aldehydes, many of which have objectionable odors at low levels, can be a result of incomplete natural gas or LP gas combustion, used in building and furnishing materials, or the presence of decaying organic matter. Limonene and Pinene are found in citrus and pine-based cleaners.

If you wish to compare your data with NIOSH or OSHA exposure limits, please consult the following links and search for the individual compound of interest;

<http://www.cdc.gov/niosh/npg/>

[http://www.osha.gov/dts/chemicalsampling/toc/toc\\_chemsamp.html](http://www.osha.gov/dts/chemicalsampling/toc/toc_chemsamp.html)

In addition, you can contact the TO-15 Laboratory for other available reporting formats.

If you have additional questions about your report, please do not hesitate to contact Marge Howley, TO-15 Laboratory Manager at (800) 220-3675 ext. 2807 or Vince Daliessio CIH, Industrial Hygiene Project Manager at (800) 220-3675 ext. 2559.

**Warranty:** EMSL warrants to its clients that all services provided hereunder shall be performed in accordance with established and recognized analytical testing procedures and with reasonable care in accordance with applicable federal, state and local laws. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied. EMSL disclaims any other warranties, express or implied, including a warranty of fitness for particular purpose and warranty of merchantability. **Limits of Liability:** In no event shall EMSL be liable for indirect, special, consequential, or incidental damages, including, but not limited to, damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages, arising out of or in connection with EMSL's services thereunder or the delivery, use, reliance upon or interpretation of test results by client or any third party. We accept no legal responsibility for the purposes for which the client uses the test results. EMSL will not be held responsible for the improper selection of sampling devices even if we supply the device to the user. The user of the sampling device has the sole responsibility to select the proper sampler and sampling conditions to insure that a valid sample is taken for analysis. Any resampling performed will be at the sole discretion of EMSL, the cost of which shall be limited to the reasonable value of the original sample delivery group (SDG) samples. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereunder. **Indemnification:** Client shall indemnify EMSL and its officers, directors and employees and hold each of them harmless for any liability, expense or cost, including reasonable attorney's fees, incurred by reason of any third party claim in connection with EMSL's services, the test result data or its use by client.



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### **TO-15 Results – Frequently Asked Questions (FAQ):**

**Q:**What does an “ND” in the result column next to a compound mean?

**A:** A “ND” (not detected) means we did not detect that compound in the sample.

**Q:**What does an “E” in the “Q” (qualifier) column next to a compound mean?

**A:** An “E” (estimated) qualifier means that the concentration reported was higher than the calibration curve. “E” is commonly reported for only for ethanol and isopropanol which are not required to be diluted per TO-15 method. There are some instances where the lab will report an “E” for other compounds such as a sample that has a short turn around time and no time to make dilutions.

**Q:**Why are there values listed in the “Results ppbv” and “Results ug/m3” columns for that compound if it was not detected?

**A:**When a compound is not detected, the value for ppbv and ug/m3 is the Reporting Limit (RL) for that compound, that is, it *could* be present at less than the values stated, but those values are as low as we are able to report under normal circumstances.

**Q:**Why do the listed ppbv and ug/m3 values differ for undetected compounds?

**A:** Different compounds can have different detection limits. Most compound RLs are reported at 0.5 ppbv, however some very common compounds are reported slightly higher. This is often a function of what other similar compounds are present, or how much of a particular compound is present. The ug/m3 RLs vary due to the different molecular weights of each compound.

**Q:**Why are there different numbers in the “Results ppbv” and “Results ug/m3” columns?

**A:** They are two different ways of expressing an air concentration, ppbv is a volume / volume concentration, while ug/m3 is a weight / volume concentration. If you know the concentration in one unit, and the molecular weight of the compound, you can easily convert it to the other, e.g.;

$$X \text{ ppbv} = (Y \text{ ug/m}^3) \times (24.45) / (\text{molecular weight})$$

$$Y \text{ ug/m}^3 = (X \text{ ppbv}) \times (\text{molecular weight}) / 24.45$$

**(24.45 is the gas molar value, a constant)**



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**Q:**What is meant by the “Method Detection Limit”?

**A:** The Method Detection Limit (MDL) refers to the non-zero amount of the compound in question that we can identify in a scientifically-sound manner. Essentially we have to be able to see a peak on the chromatogram that is higher than three times the standard deviation of the same peak in the blank. If it does not meet this minimum, we cannot say we detected it. The values found on your Form 1s are “Reporting Limits” (RLs) which are higher than MDLs.

**Q:**Where can I find (gasoline, diesel, fuel oil, natural gas, propane, LPG) in my sample?

**A:** These materials are mixtures of several different compounds. Because the analysis identifies molecules, these mixtures are elucidated indirectly. Additionally, each of these mixtures contain one or more compounds that are characteristic of other mixtures, for example, gasoline contains n-hexane, n-heptane, benzene, toluene, ethylbenzene, and xylenes, as does diesel fuel, though diesel fuel also contains other, heavier hydrocarbon molecules.

Similarly, LPG, also known as liquefied petroleum gas (often referred to interchangeably as “propane”) may contain propane, but also many other light hydrocarbon molecules, including some found in gasoline too. Identifying which mixture goes with which compounds is a bit of an art, and requires some background information to do accurately.

**Q:**What does “RT” mean on my Library Search results?

**A:** RT stands for Retention Time, referring to the length of time from the injection of the sample into the GC column to when a particular molecule exits the column and passes into the Mass Spectroscopy detector.

Retention time is a function of molecule size and mass, the functional groups attached, and the polarity of the molecule relative to the column packing, and is characteristic, meaning every organic molecule has an associated retention time that assists in identification. In general, smaller, lighter, less polar molecules elute first, and larger, heavier, more polar ones elute later.

**Q:**What is an “unknown” in the Library Search?

**A:** This means a compound eluted from the GC column and was detected, but that its ion fragmentation pattern was not close enough to any peak in the library to identify it.

**Q:**Why are all of my Library Search compounds qualified as “Estimated”?

**A:** Because the instrument is not calibrated for these compounds, we can only estimate and tentatively identify them. However, this is usually fine for indoor air quality testing.



**EMSL Analytical, Inc.**

200 Route 130 North Cinnaminson, NJ 08077

Phone: (800) 220-3675 Fax: (856) 786-0262 Web: <http://www.emsl.com> Email: [cinnmicrolab@emsl.com](mailto:cinnmicrolab@emsl.com)

**Attn:** Brian Nemetz  
 Birdsall Services Group  
 1415 Wyckoff Road  
 Suite 206  
 Farminadale, NJ 07727

EMSL Order: 371109926  
 Customer ID: PMK50B  
 Collected: 8/09/2011  
 Received: 8/10/2011  
 Analyzed: 8/13/2011

**Proj:** 07205-105000

**Test Report: Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, and Other Particulates from Bulk Samples (EMSL Method: M041)**

Lab Sample Number:	371109926-0001	371109926-0002	371109926-0003	371109926-0004	371109926-0005
Client Sample ID:	V 1	V 2	V 3	V 4	V 5
Sample Location:	Daisy Ortiz	IDRC	Youth Commission	Labor Mgmt Op	Human Services
Spore Types	Category	Category	Category	Category	Category
Agrocybe/Coprinus	-	-	-	-	-
Alternaria	-	-	-	-	-
Ascospores	-	-	-	-	-
Aspergillus/Penicillium	Rare	Rare	Rare	Rare	Rare
Basidiospores	-	-	-	Rare	-
Bipolaris++	-	-	-	-	-
Chaetomium	-	-	-	-	-
Cladosporium	-	-	-	-	-
Curvularia	-	-	-	-	-
Epicoccum	-	-	-	-	-
Fusarium	-	-	-	-	-
Ganoderma	-	-	-	-	-
Myxomycetes++	-	-	-	-	-
Paecilomyces	-	-	-	-	-
Rust	-	-	-	-	-
Scopulariopsis	-	-	-	-	-
Stachybotrys	-	-	-	-	-
Torula	-	-	-	-	-
Ulocladium	-	-	-	-	-
Unidentifiable Spores	-	Rare	-	-	-
Zygomycetes	-	-	-	-	-
Fibrous Particulate	Low	Low	Low	Rare	-
Hyphal Fragment	-	-	-	-	-
Insect Fragment	-	-	-	-	-
Pollen	-	-	-	-	-

Initial report from: 08/13/2011 09:07:45

Category: Count/per area analyzed

Rare: 1 to 10 Low: 11 to 100 Medium: 101 to 1000 High: >1000

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum Myxomycetes++ = Myxomycetes/Periconia/Smut

\* = Sample contains fruiting structures and/or hyphae associated with the spores.

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

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--EMLAP Lab 100194

EMSL maintains liability limited to cost of analysis. 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. Interpretation of the data contained in this report is the responsibility of the client. "-" denotes not detected. Samples received in good condition unless otherwise noted.

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

Test Report DEVER1-7.21.0 Printed: 8/13/2011 09:08:19AM

Farbod Nekouei, M.S., Laboratory Manager  
 or Other Approved Signatory

371109926  
Indoor Air Quality Chain of Custody  
EMSL Order Number (Lab Use Only):

Westmont, NJ  
3 Cooper Street  
Westmont, NJ 08108  
PHONE: 1-800-220-3675  
FAX: (856) 858-4960

*8/10*  
SAMPLES ACCEPTED  
FOR ANALYSIS BY  
EMSL ANALYTICAL LLC

Company: Birdsall		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: 1415 Wyckoff rd		Third Party Billing requires written authorization from third party	
City/State/Zip: Farmingdale, NJ 07727			
Report To (Name): Brian Nemetz		Fax:	
Telephone: 7327510799		Email Address: bnetetz@birdsall.com	
Project Name/Number: 07205 - 105000			
Please Provide Results: Email		Purchase Order:	State Samples Taken: NJ
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input checked="" type="checkbox"/> 2 Week <small>*For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TAT's are in Business Days rather than Hours. Ex. 24 Hour = End of Next Business Day</small>			
<b>Asbestos</b>			
<b>PCM - Air</b> <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ or w/o TWA <b>TEM - Air</b> 4-4 hr TAT (AMERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	<b>PLM - Bulk</b> <input type="checkbox"/> PLM EPA 800/R-03/118 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	<b>TEM - Bulk</b> <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <b>Soil/Rock/Vermiculite</b> <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative)	
<b>TEM - Water</b> Fibers <input type="checkbox"/> Opn <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	<b>TEM - Dual</b> <input type="checkbox"/> Microvas - ASTM D 8755 <input type="checkbox"/> Wipe-ASTM D8496	<b>Other:</b>	
<b>Lead (Pb)</b>		<b>Materials Science</b>	
<b>Flame Atomic Absorption</b> <input type="checkbox"/> Chip SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SW3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> TCLP SW846-1311/7420/SM 3111B	<b>ICP</b> <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C	<input type="checkbox"/> Common Particle ID (large particles) <input type="checkbox"/> Full Particle ID (environmental dust) <input type="checkbox"/> Basic Material ID (solids) <input type="checkbox"/> Advanced Material ID <input type="checkbox"/> Physical Testing (Tensile, Compression) <input type="checkbox"/> Combustion-by-products (soot, char, etc.) <input type="checkbox"/> X-Ray Fluorescence (elem. analysis) <input type="checkbox"/> X-Ray Diffraction (Crystalline Part.) <input type="checkbox"/> MNVP's (Fibrous glass, RCF's) <input type="checkbox"/> Particle Size (sieve/microscopy/laser) <input type="checkbox"/> Combustible Dust <input type="checkbox"/> Petrographic Examination Other: <input type="checkbox"/>	
<b>Graphite Furnace Atomic Absorption</b> <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.8 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.8	<b>Other:</b> <input type="checkbox"/>		
<b>Microbiology</b>			
<b>Wipe and Bulk Samples</b> <input checked="" type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> General Count & ID (Up to Three Types) <input checked="" type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> Pseudomonas aeruginosa	<b>Air Samples</b> <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing <input type="checkbox"/> Real Time Q-PCR (See Analytical Guide for Code)	<b>IAQ</b> Nuisance Dust NIOSH <input type="checkbox"/> 0500 <input type="checkbox"/> 0600 Airborne Dust: <input type="checkbox"/> PM10 <input type="checkbox"/> TSP Silica Analysis: <input type="checkbox"/> All Species Silica Analysis - Single Species <input type="checkbox"/> Alpha Quartz <input type="checkbox"/> Cristobalite <input type="checkbox"/> Tridymite <input type="checkbox"/> HVAC Efficiency <input type="checkbox"/> Carbon Black <input type="checkbox"/> Airborne Oil Mist Radon Testing: Call for Kit and COC Other: <input type="checkbox"/>	
<b>Water Samples</b> <input type="checkbox"/> Total Coliform & E.coli (P/A) <input type="checkbox"/> Fecal Coliform (SM 9222D) <input type="checkbox"/> Sewage Screen <input type="checkbox"/> Heterotrophic Plate Count (SM 9218)	<b>Code:</b> <b>Leakdown</b> <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <b>Other:</b> <input type="checkbox"/>	<b>Total # of Samples:</b> 11	
Client Sample #'s		Date: 8/9/11	
Relinquished (Client): <i>John</i>		Time:	
Received (Lab): <i>A. Lopez-Pina</i>		Date: 8/9/11 14:54	
Comments/Special Instructions: <i>Received: Gushko 08-09-11 19:55</i> <i>Relinquished: Gushko 08-09-11 22:05</i>			

2011 AUG 10 AM 6:28

EMSL  
CINNAMEN

*Recd-DMB-COUL-BA 8-10-11*

