Soil and Land Use Technology, Inc.
1818 New York Ave. NE, Ste 231, Washington, DC 20002
Telephone: (301) 595-3783
www.salutinc.com

February 9, 2021

Prince George's County Public Schools
Environmental Safety Office
13306 Old Marlboro Pike
Upper Marlboro, MD 20772

Attention: Alex Baylor
alex.baylor@pgcps.org

Subject: Indoor Air Quality Survey
Berwyn Heights Elementary School
6200 Pontiac Street
Berwyn Heights, MD 20740

Mr. Baylor:

On January 29, 2021, a Soil and Land Use Technology, Inc. (SaLUT) Industrial Hygienist conducted an indoor air quality (IAQ) evaluation at Berwyn Heights Elementary School, a property maintained by Prince George's County Public Schools (PGCPS) located at 6200 Pontiac Street, Berwyn Heights, MD 20740. The inspection was performed in accordance with PGCPS contract number IFB 022-19.

Methodology

The IAQ evaluation conducted by SaLUT included a visual assessment, IAQ instrumentation screening, and a collection of interior air samples for mold in representative locations throughout the building. Additionally, one building exterior environmental air sample was taken for comparison.

Air-borne fungal spore samples were collected on *Air-O-Cell* cassettes using a Buck BioAire calibrated pump. The air samples were taken between three and five feet from the ground. In tandem with collecting mold samples, real-time readings for carbon dioxide, carbon monoxide, temperature and relative humidity were collected using a Fluke 975 Air Meter in representative areas within the facility.

The fungal spore air samples were delivered to EMSL Analytical, Inc. of Beltsville, Maryland for analysis. Fungal spores and particulates in air samples were analyzed by Optical Microscopy (methods EMSL 05-TP-003 and ASTM D7391). The sample chain-of-custody and laboratory reports are attached.

Observations

The table below summarizes the main observations from the IAQ survey at Berwyn Heights Elementary School, visited on January 29, 2021.

Table 1-Observations

Location	Summary of Observations 01-29-2021
Cafeteria	No ceiling tile and 1′×1′ floor tile; No visual signs of microbial growth; No visible dust on floor/ other furniture floors; No visible dust around ventilator; Central HVAC.
Classroom 130	2′x4′ ceiling tiles and 12″x12″ tile floor; No visual signs of microbial growth, and no odor; No visible dust on floor/other furniture surfaces; No visible dust around ventilator; Central AC.
Classroom 131	2′x4′ ceiling tiles and 12″x 12″ tile floor; No visual signs of microbial growth; Mild odor; No visible dust on floor/other furniture surfaces; No visible dust around ventilator; Central AC.
Main Hallway	2′x 2′ ceiling tiles and 12″x 12″ tile floor; No visual signs of microbial growth; Mild odor; No visible dust on floor/other furniture surfaces; No visible dust around ventilator; Central AC.
Main Office	2′×4′ ceiling tile and 1′×1′ floor tile; No visual signs of microbial growth; No visible dust on floor/other furniture floors; No visible dust around ventilator; Central HVAC.

Measurements of Indoor Environmental Quality Parameters

Table 2 depicts a summary of average measurements of comfort.

Temperature

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) have published recommendations for year round acceptable temperatures in Standard 55-2010 *Thermal Environmental Conditions for Human Occupancy*. The winter comfort range is 20 to 24°C (68 to 75°F) and 23 to 26°C (73 to 79°F) is the summer comfort range. The temperature readings were within the ASHRAE recommended ranges in the representative spaces with the exception of some locations.

Relative Humidity (RH)

RH is a key factor for mold growth. Mold has the potential of growing on suitable surfaces with humidity levels above 60%. ASHRAE Standard 62.1-2010 *Ventilation for Acceptable Indoor Air Quality* recommends a maximum indoor RH of 65% to preclude the likelihood of condensation on cool surfaces encouraging mold growth. The RH readings were within the ASHRAE recommended ranges in the representative areas.

Carbon Dioxide (CO_2)

Under conditions of maximum occupancy, ASHRAE Standard 62.1-2010, Appendix C, infers that the acceptable CO_2 upper limit is the prevailing outdoor CO_2 concentration plus 700 parts per million (ppm). On the day of the space evaluation, the outdoor (building exterior) CO_2 concentration was approximately 443 ppm therefore indoor concentrations should not exceed approximately 1,143 ppm (700 + 443). The maximum average interior CO_2 concentration detected was 531 ppm in the Cafeteria, a range within the ASHRAE recommendations, per Table 2 below.

Carbon Monoxide (CO)

CO is a colorless and odorless gas that is produced by the incomplete combustion of carbon containing fuels. Oil, gasoline, diesel fuels, wood, coke, and coal are major sources of CO. All registered CO concentrations were below the EPA National Ambient Air Quality Standard (NAAQS) of 9 ppm, per Table 2 below.

Table 2: Berwyn Heights Elementary School-Instrumental Screening Levels January 29, 2021 (9:30 AM-11:30 AM)

Sample Location	Temp °F	RH%	CO ppm	CO_2 ppm
Standards	**ASHRAE 68 to 75°F***	**ASHRAE <65%**	**NAAQS 9**	**ASHRAE 1,143**
Cafeteria	67.1	15.6	0	531
Classroom 130	78.8	14.3	0	504
Classroom 131	67.1	28.2	0	529
Main Hallway	66.2	21.3	0	509
Main Office	73.4	19.1	0	514
Outside Exterior EV Sample	42.8	23.5	0	443

PM – Particulate Matter size
°F – Degrees Fahrenheit
CO – Carbon Monoxide
ppm – parts per million
µg/m^3 – micrograms per cubic meter
RH% - % Relative Humidity
CO_2 – Carbon Dioxide
* - Winter Comfort Range

Mold-in-Air Samples

There are no definitive regulations or standardized guidelines for addressing airborne mold in an indoor setting. If building systems (ventilation, envelope) are functioning properly, the indoor population profile should mimic what is encountered outdoors and the concentrations should be below the outdoor (building exterior) environmental sample levels.

Table 3: Summarizes airborne mold spore sampling results and locations. On January 29, 2021, total mold counts in representative samples (spore count/m^3 of air) in all the areas inspected were lower than the outdoor concentrations. Laboratory analysis follows this report (see attachment).

Table 3: Berwyn Heights Elementary School
Measurements of Mold-in-Air Samples
January 29, 2021 (9:30 AM-11:30 AM)

Spore Types	Cafeteria	Classroom 130	Classroom 131	Main Hallway
Alternaria (Ulocladium)	-	-	-	-
Ascospores	-	-	-	-
Aspergillus/Penicillium	40	200	-	-
Basidiospores	-	40	-	-
Bipolaris++	-	-	-	-
Chaetomium	-	-	-	-
Cladosporium	-	-	-	-
Curvularia	-	-	-	-
Epicoccum	-	-	-	-
Fusarium	-	-	-	-
Ganoderma	-	-	-	-
Myxomycetes++	-	10*	-	-
Pithomyces++	-	-	-	-
Rust	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-
Unidentifiable Spores	-	-	-	-
Zygomycetes	-	-	-	-
Nigrospora	-	-	-	-
Hyphal Fragment	-	-	-	-
Insect Fragment	-	-	-	-
Pollen	-	-	-	-
Total Fungi	**40**	**250**	**None Detect**	**None Detect**

* Spore Counts per cubic meter of air (Counts/m^3).
++Includes other spores with similar morphology.

Table 3: Berwyn Heights Elementary School
Measurements of Mold-in-Air Samples continued
January 29, 2021 (9:30 AM-11:30 AM)

Spore Types	Outside Exterior EV Sample	Main Office	Field Blank	
Alternaria (Ulocladium)	40	-	-	-
Ascospores	-	-	-	-
Aspergillus/Penicillium	570	200	-	-
Basidiospores	-	-	-	-
Bipolaris++	-	-	-	-
Chaetomium	-	-	-	-
Cladosporium	300	10*	-	-
Curvularia	-	-	-	-
Epicoccum	40*	40	-	-
Fusarium	-	-	-	-
Ganoderma	-	-	-	-
Myxomycetes++	10*	-	-	-
Pithomyces++	10*	-	-	-
Rust	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-
Unidentifiable Spores	-	-	-	-
Zygomycetes	-	-	-	-
Nigrospora	-	-	-	-
Hyphal Fragment	10*	10*	-	-
Insect Fragment	-	-	-	-
Pollen	-	-	-	-
Total Fungi	**980**	**260**	**No Trace**	**-**

*Spore Counts per cubic meter of air (Counts/m^3).
++Includes other spores with similar morphology.

Findings and Conclusions

The comfort parameters (i.e., temperature, RH, CO_2, and CO levels) in the representative areas conform to ASHRAE and/or NAAQS guidelines with the exception of the temperature. On January 29, 2021 total mold counts in representative area samples (spore count/m^3 of air) in all the areas inspected were lower than the outdoor concentrations.

Thank you for the opportunity to provide industrial hygiene services for PGCPS. If you have any questions, please contact me at 301.595.3783.

Sincerely,

Chaminda Jayatilake, PE, CIH, CSP, CHMM
Certified Industrial Hygienist
Soil and Land Use Technology Inc. (SaLUT)

Attachment

Attachment - Mold Spore Sample Analytical Results and Chain-of-Custody Forms

Attachment

Mold Spore Sample Analytical Results and Chain-of-Custody Forms

EMSL Analytical, Inc.

10768 Baltimore Avenue Beltsville, MD 20705

Tel/Fax: (301) 937-5700 / (301) 937-5701

http://www.EMSL.com / beltsvillelab@emsl.com

EMSL Order: 192100916
Customer ID: SALU50
Customer PO:
Project ID:

Attention: Indika Jayatilake
SaLUT
1818 New York Avenue, NE
Suite 231
Washington, DC 20002

Phone: (301) 595-3783
Fax: (301) 595-3787
Collected Date: 01/29/2021
Received Date: 02/01/2021 09:30 AM
Analyzed Date: 02/03/2021

Project: PGPCS IAQ REPORTS 19-035; BERWYN HEIGHTS ELEMENTARY SCHOOL

Test Report:Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number:	192100916-0001			192100916-0002			192100916-0003		
Client Sample ID:	31885782			31885785			31885760		
Volume (L):	75			75			75		
Sample Location:	CAFETERIA			CLASSROOM 131			MAIN HALLWAY		
Spore Types	**Raw Count**	**Count/M³**	**% of Total**	**Raw Count**	**Count/M³**	**% of Total**	**Raw Count**	**Count/M³**	**% of Total**
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	1	40	100	-	-	-	-	-	-
Basidiospores	-	-	-	-	-	-	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Mycoenterolobium	-	-	-	-	-	-	-	-	-
Polythrincium	-	-	-	-	-	-	-	-	-
Total Fungi	**1**	**40**	**100**	**-**	**None Detect**	**-**	**-**	**None Detect**	**-**
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

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

Abubakar Barry, Microbiology Laboratory Manager or other Approved Signatory

Initial report from: 02/04/2021 02:53 PM

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

EMSL Analytical, Inc.

10768 Baltimore Avenue Beltsville, MD 20705

Tel/Fax: (301) 937-5700 / (301) 937-5701

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Project: PGPCS IAQ REPORTS 19-035; BERWYN HEIGHTS ELEMENTARY SCHOOL

Test Report:Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number:	192100916-0004			192100916-0005			192100916-0006		
Client Sample ID:	31885777			31885791			31885790		
Volume (L):	75			75			75		
Sample Location:	CLASSRM 130			MAIN OFFICE			OUTSIDE SAMPLE		
Spore Types	**Raw Count**	**Count/M³**	**% of Total**	**Raw Count**	**Count/M³**	**% of Total**	**Raw Count**	**Count/M³**	**% of Total**
Alternaria (Ulocladium)	-	-	-	-	-	-	1	40	4
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	4	200	80	5	200	76.9	13	570	56.4
Basidiospores	1	40	16	-	-	-	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	1*	10*	3.8	8	300	29.7
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	1	40	15.4	3*	40*	4
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	1*	10*	4	-	-	-	1*	10*	1
Pithomyces++	-	-	-	-	-	-	1*	10*	1
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Mycoenterolobium	-	-	-	-	-	-	1	40	4
Polythrincium	-	-	-	1*	10*	3.8	-	-	-
Total Fungi	**6**	**250**	**100**	**8**	**260**	**100**	**28**	**1010**	**100**
Hyphal Fragment	-	-	-	1*	10*	-	1*	10*	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	2	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

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

Abubakar Barry, Microbiology Laboratory Manager
or other Approved Signatory

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Project: PGPCS IAQ REPORTS 19-035; BERWYN HEIGHTS ELEMENTARY SCHOOL

Test Report:Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number:	192100916-0007					
Client Sample ID:	31885758					
Volume (L):						
Sample Location:	FIELD BLANK					
Spore Types	**Raw Count**	**Count/M³**	**% of Total**			
Alternaria (Ulocladium)	-	-	-			
Ascospores	-	-	-			
Aspergillus/Penicillium	-	-	-			
Basidiospores	-	-	-			
Bipolaris++	-	-	-			
Chaetomium	-	-	-			
Cladosporium	-	-	-			
Curvularia	-	-	-			
Epicoccum	-	-	-			
Fusarium	-	-	-			
Ganoderma	-	-	-			
Myxomycetes++	-	-	-			
Pithomyces++	-	-	-			
Rust	-	-	-			
Scopulariopsis/Microascus	-	-	-			
Stachybotrys/Memnoniella	-	-	-			
Unidentifiable Spores	-	-	-			
Zygomycetes	-	-	-			
Mycoenterolobium	-	-	-			
Polythrincium	-	-	-			
Total Fungi	**-**	**No Trace**	**-**			
Hyphal Fragment	-	-	-			
Insect Fragment	-	-	-			
Pollen	-	-	-			
Analyt. Sensitivity 600x	-	0	-			
Analyt. Sensitivity 300x	-	0*	-			
Skin Fragments (1-4)	-	-	-			
Fibrous Particulate (1-4)	-	-	-			
Background (1-5)	-	-	-			

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

Abubakar Barry, Microbiology Laboratory Manager or other Approved Signatory

Initial report from: 02/04/2021 02:53 PM

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

OrderID: 192100916

Microbiology Chain of Custody

EMSL Order Number (*Lab Use Only*): 192100916

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

10768 Baltimore Avenue
Beltsville, MD 20705
PHONE: (301) 937-5700
FAX: (301) 937-5701

Company Name: SaLUT	**EMSL-Bill to:** ☑ Same ☐ Different If 'Bill To' is different, note instructions in Comments *Third Party Billing requires written authorization from third party.*
Street: 1818 New York Avenue, NE Suite 231	
City: Washington **State/Province:** DC	**Zip/Postal Code:** 20002 **Country:** US
Report To (Name): Indika Jayatilake	**Telephone #:** 301-595-3783
Email Address: ijayatilake@salutinc.com	**Fax #:** 301-595-3787 **Purchase Order:**
Project Name/Number: PGPCS IAQ Reports 19-035 Berwyn Heights Elementary School	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken: MD **Project Zip Code:**	**Connecticut Samples:** ☐ Commercial ☐ Residential

Sterile, Sodium Thiosulfate Preserved Bottle Used: ☐ **Biocide Used in Source (specify):** ☐

Public Water Supply Samples: ☐ **Note: All results may automatically be reported to DOH if required by state.**

Turnaround Time (TAT) Options - Please Check

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

Microbiology Test Codes

M001 Air-O-Cell
M030 Micro 5
M174 MoldSnap
M032 Allergenco-D
M041 Fungal Direct Examination
M169 Pollen ID & Enumeration
***M280** Dust Characterization Level-1*
M281 Dust Characterization Level-2
M005 Viable Fungi- Air Samples (Genus ID & Count)
M006 Viable Fungi- Air Samples (Includes *Penicillium, Aspergillus, Cladosporium, Stachybotrys* Species ID & Count)
M007 Culturable fungi - Surface Samples (Genus ID & Count)
M008 Culturable fungi - Surface Samples (Includes *Penicillium, Aspergillus, Cladosporium, Stachybotrys* Species ID & Count)
M009 Bacteria Culture Gram Stain & Count
M010 Bacteria Count & ID - 3 Most Prominent
M011 Bacteria Count & ID - 5 Most Prominent

M012 *Pseudomonas aeruginosa* (P/A***)
M024 *Pseudomonas aeruginosa* (MFT*)
M015 Heterotrophic Plate Count
M017 Total Coliform & *E. coli* (Colilert P/A***)
M018 Total Coliform & *E. coli* (MFT*)
M114 Total Coliform & *E. coli* Enumeration (Colilert MPN**)
M019 Fecal Coliform (MFT*)
M020 Fecal *Streptococcus* (MFT*)
M029 *Enterococci* (MFT*)
M129 *Enterococci* (Enterolert P/A***)
M180 Real Time qPCR-ERMI 36 Panel
M025 Sewage Screen –Water (MFT*)

M115 Sewage Screen - Water (P/A***)
M116 Sewage Screen - Water (MPN**)
M117 Sewage Screen - Swab (P/A***)
M013 Sewage Screen - Swab (MFT*)
M133 *Methicillin-resistant Staph. aureus* (MRSA)
M031 Rapid-growing non-TB *Mycobacteria* Detection & Enumeration
M014 Endotoxin Analysis
M044 Group Allergen (Cat, Dog, Cockroach, Dust Mite)
Other See Analytical Price Guide
***Legionella* Analysis** Please use EMSL *Legionella* COC

*MFT= Membrane Filtration Technique
**MPN= Most Probable Number
***P/A= Presence/Absence

Name of Sampler: Rahul Ekanayake **Signature of Sampler:**

Sample #	Sample Location/Description	Sample Type	Potable/ *NonPotable* (Only for Waters)	Test Code	Volume/ Area	Date/Time Collected	Temperature (°C) (Lab Use Only)
Example A1	Kitchen Sink/Tap	Water	☒ P ☐ NP	M017	100 mL	9/1/13 4:00 PM	
3188 5782	Cafeteria	Air	☐ P ☐ NP	M001	75L	01/29/21 3.00 P.M	
3188 5785	Classroom 131	Air	☐ P ☐ NP	M001	75L	01/29/21 3.07 P.M	
3188 5760	Main Hallway	Air	☐ P ☐ NP	M001	75L	01/29/21 3.13 P.M	
3188 5777	Classroom 130	Air	☐ P ☐ NP	M001	75L	01/29/21 3.19 P.M	
3188 5791	Main office	Air	☐ P ☐ NP	M001	75L	01/29/21 3.25 P.M	

Client Sample # (s): - 07 **Total # of Samples:** 07 **Samples Received Chilled?** Yes / No (Lab Use Only)

Relinquished (Client): Rahul Ekanayake **Date:** 01/29/21 **Time:** 6.30 P.M

Received (Lab): Marcus Nyce DB **Date:** **Time:**

Comments/Special Instructions:

2021 FEB -1 A 11:51

BELTSVILLE, MD
EMSL ANALYTICAL, INC.
RECEIVED

RECEIVED
EMSL ANALYTICAL, INC.
BELTSVILLE, MD
2021 JAN 22 A 7:40
R3B 1

OrderID: 192100916

Microbiology Chain of Custody

EMSL Order Number *(Lab Use Only)*:

192100916

EMSL ANALYTICAL, INC.
LABORATORY•PRODUCTS•TRAINING

EMSL Analytical, Inc.
10768 Baltimore Avenue

Beltsville, MD 20705
PHONE: (301) 937-5700
FAX: (301) 937-5701

Additional pages of the chain of custody are only necessary if needed for additional sample information.

Sample #	Sample Location/Description	Sample Type	Potable/ NonPotable (Only for Waters)	Test Code	Volume/ Area	Date/Time Collected	Temperature (°C) (Lab Use Only)
3188 5790	outside Sample	Air	☐P ☐NP	M001	75L	01/29/21 3-31 P-M	
3188 5758	field blank	Air	☐P ☐NP	M001	N/A	01/29/21 3-36 P-M	
			☐P ☐NP				
			☐P ☐NP				
			☐P ☐NP				
			☐P ☐NP				
			☐P ☐NP				
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			☐P ☐NP				

Comments/Special Instructions:

Page ______ of ______

Controlled Document – COC-34 Micro R8 11/14/2017