April 9, 2020

Ms. Sharmila Pradhan *CHMM* **via e-mail: sharmila.pradhan@montgomerycollege.edu**
Environmental Safety Manager

Montgomery College
Office of Facilities
9221 Corporate Boulevard
Rockville MD 20850

Re: Asbestos Abatement Monitoring and Contractor Oversight Report
Montgomery College – Rockville, Maryland Campus
Physical Education (PE) Building
51 Mannakee Street, Rockville, MD 20850
Tidewater Job Number: 5089-016

Dear Ms. Pradhan:

Tidewater, Inc. (Tidewater) is pleased to present this Abatement Monitoring Report describing the results of the asbestos abatement monitoring activities completed at the Montgomery College Physical Education (PE) Building located at 51 Mannakee Street, Rockville, Maryland. These abatement activities were completed to remove identified asbestos-containing ceiling tiles as well as damaged pipe fittings and mudded joints as a component of the ongoing ceiling tile replacement project. This report covers monitoring and consulting activities completed by Tidewater between January 27, 2020 and February 20, 2020.

Authorization for this service was granted via the issuance of Tidewaters' Cost Proposal 2020-IH-818, dated January 17, 2020.

Abatement Monitoring Activities

The abatement monitoring activities commenced on January 27, 2020 and ran through February 20, 2020. Mr. Asoka "Oscar" Kahawita and Mr. Walter Gonzalez, acting as representatives of Tidewater, were the onsite Industrial Hygiene Technicians throughout this period.

Tidewater's onsite IH Technician's and Project Manager, Mr. Skanda Abeyesekere MS, CIH, CSP, CHMM completed the following abatement monitoring tasks and oversight activities during this period:

- The maintenance of a daily log of significant events;
- The completion of pre-abatement visual inspections of all containments and regulated work areas;
- The conduct of periodic site walkthroughs to assess work practices being used by the abatement contractor and to verify the integrity of containments;
- The collection and analysis of environmental air samples in adjacent areas to containments/work areas to verify the effectiveness of engineering controls;
- The conduct of final visual inspections of all containments and regulated work areas prior to encapsulation;
- The collection of final clearance air samples from all containments for TEM analysis; and
- Oversight of project activities and routine inspections by project Certified Industrial Hygienist to ensure that the project is executed under specified project scope of work.

Tidewaters' industrial hygienist technicians performed daily and final clearance air monitoring activities for all abatement activities that took place on the 1st and 2nd floors of the PE Building. Final visual inspections were conducted in all work areas to ensure that the work area was free of debris and visible dust. The air samples were collected and analyzed on site in accordance with NIOSH 7400 protocol utilizing PCM. The air samples collected from the work areas yielded fiber concentrations of less than 0.01 fibers per cubic centimeter of air (f/cc.) These results represent levels considered adequate for re-occupancy, as stated in the EPA guidance publication as <0.01 f/cc.

Copies of the IHs' Daily Reports and PCM Air Data Sheets are included as Attachment A. Copies of relevant certifications/licenses are included as Attachment B.

TEM Final Clearance Air Sample Results

Tidewater collected final clearance samples from 10 containments located on the 1st floor and five (5) containments located on the 2nd floor of the PE Building during the abatement period as follows:

1st Floor Containments

- Containment #1A – Room 121 Dance Studio, 121A Mechanical Room, and Room 119 Storage Room.
- Containment #1B – Room 115 Women's Room Toilet
- Containment #2 – Room 147 Storage Room and Corridor
- Containment #3 – Room 140 Weights Room and Adjacent Corridor
- Containment #4 – Room 142 - Mechanical Room / Pool Office.
- Containment #5A – Office Room 137B - Fitness Center-Main entry door areas.
- Containment #5 – Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors)
- Containment #6 – Main Lobby - Rest of the Classrooms (106, 117, 134, 135, 136, 116, 114 & 190 Corridors).
- Containment #7 – Gymnasum-137A (Mini-Storage-137A)

2nd Floor Containments

- Containment #1 – Men's Locker Area
- Containment #2 – Center Stairwell
- Containment #3 – Corridors #298 and #299
- Containment #6 – Mechanical Room #238A
- Containment #8 – Room #217 (Dance Studio)

Final clearance air samples were collected upon an acceptable final visual inspection and encapsulation of the work areas by the abatement contractor BARCO Enterprises Inc. Analysis of the final clearance air samples was completed by EMSL Analytical, Inc., an independent laboratory accredited by the National Institute of Standards and Technology (NIST) and a successful participant in the National Voluntary Laboratory Accreditation Program (NVLAP.) Rigorous chain-of-custody guidelines were followed throughout to ensure proper handling and delivery of the samples. The samples were analyzed via Transmission Electron Microscopy (TEM) via EPA 40 CFR Part 763 Appendix A to Subpart E methodology.

The TEM final clearance air sampling results collected from all containments were below the re-occupancy standard of 70 structures per square millimeter (S/mm^2) for TEM. Analytical laboratory reports were provided to designated representatives of Montgomery College and BARCO Enterprises Inc. upon receipt of the results by Tidewater.

Copies of the Final Clearance TEM Analytical Results and Chain of Custodies are included as Attachment C. A floor plan demarcating the containments is shown in Attachment D. A summary of the ACM quantities removed are included in Attachment E.

Conclusion

This report has been prepared to assist Montgomery College in complying with State of Maryland requirements related to the abatement of identified asbestos-containing ceiling tiles and damaged pipe fittings and mudded joints found at the Montgomery College Physical Education (PE) Building located at 51 Mannakee Street, in Rockville, Maryland.

This report is prepared for the sole benefit of Montgomery College and its affiliates and may not be relied upon by any other person or entity without the written authorization of Tidewater, Inc.

We appreciate the opportunity to assist you with this project. If you have any questions or require any additional information, please do not hesitate to contact us at 410-540-8700.

Sincerely,

Tidewater, Inc.

Skanda Abeyesekere, MS, CIH, CSP, CHMM
Project Manager/ Certified Industrial Hygienist

Jonathan N. Schatz, MS
Manager, IH Services

SA /JNS

Attachments:
Attachment A – Daily Reports/ Field Logs
Attachment B – Relevant Licenses/Certifications
Attachment C – Final Clearance TEM Analytical Results and Chains of Custody
Attachment D – Floor Plans Demarcating the Containments
Attachment E – A Summary of ACM Abated

ATTACHMENT A

Daily Reports/ Field Logs

TIDEWATER INC

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

PCM AIR SAMPLE DATA SHEET

Project : **MCM-Physical Education Building-Abatment** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.010** Time & Date **January 27, 2020** **On-Site** 8:00:00 **TO** 17:00:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
12720-5089-010-A-01	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Opened***
12720-5089-010-A-02	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Closed***
12720-5089-010-A-03	BG	4.0	9:47	3.8	3.9	14:16	269	1049	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **03**. Front of Classroom-114 Door Corridor area.
12720-5089-010-A-04	BG	4.0	9:47	3.9	4.0	14:16	269	1063	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **04**. Front of Dance-Studio-121 DoorvCorridor area.
12720-5089-010-A-05	BG	4.0	9:48	4.0	4.0	14:17	269	1076	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **05**. Front of Classroom-126 Door Corridor area.
12720-5089-010-A-06	BG	4.0	9:48	4.0	4.0	14:17	269	1076	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **06**. Front of Main Food-Coner-102 Lobby area.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***						

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than **0.01 f/cc (<0.01)**. This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type **= *25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** **= *5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	January 27, 2020
ON SITE FROM:	7.30 TO 17.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	10 MILEAGE 60	Air Samples I.D.	1272020-100.5089.016-A

Scope of Work

Quick Glance: Physical Education Building abatement Project.
ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations
Project location: Containmenmt-1-A = 121-Dance Studio, 121A Mech, 119-Storage.
Containmenmt-1-B = 115-Womens-Toilet
Containmenmt-2 = 147-Storage & Corridor.
Containmenmt-3 = 140-Weight Room & attached Corridor.
Containmenmt-4 = 142-Mechanical Room.
Containmenmt-5 = Classrooms & attached Corridor Main Entrances Lobby location.

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768 BALTIMORE AVE, BELTSVILLE, MD 20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

7:30	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Tidewater Inc, (CIH) & Project Manager Skanda (443-983-0362), Tidewater Inc (IH) Walter Gonzalo (240-310-6633), MC-Campus Environmental Safety Manager (POC) Sharmila Pradhan (CHMM) (301-651-0393), Barco-Abatement Project Manager Brett Harrison (443-324-3393), Abatement Crew Supervisor (Wendy) Gustavo Morales (703-870-0125) Project location Physical Education Building and discussed project work scope details. Physical Education Building with two floors, 2nd floor abatement project Monitor by Tidewater (IH) Walter, 1st floor Tidewater (IH) A. Kahawita (Oscar) walked throughout project location, observed Barco abatement crew on site, continued with setup preparation. Twenty-one abatement crew on this project site including crew supervisor (Wendy) Gustavo Morales, with valid MD-ID.
9:30	Barco abatement crew continued containment setup preparation, met with crew supervisor Wendy and discussed activities progress details. • Setup (back-Ground) environmental air sampling pumps 1st floor selected corridor Project location flow rate measured with a Rotameter at the start of the air sampling process.
11:00	walked throughout project location, observed Barco abatement crew on site, continued with setup preparation. Met with Wendy and discussed activities progress details.
12.00	Barco abatement crew continued containment setup preparation.
13.00	Barco abatement crew continued containment setup preparation
14.00	Collected (back-Ground) air sampling pumps from 1st floor selected corridor Project location flow rate measured with a Rotameter at the end of the air sampling process Analysis Back-Ground PCM air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
16.00	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration).

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

	E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
	Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. Industrial Hygiene Consultant Accreditation: • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-19002271) (Exp-date: Jan-2021) • Supervisor (State of Maryland I.D-19002651) (Exp-date: Jan-2021)

Reviewed by: _____

TIDEWATER INC

PCM AIR SAMPLE DATA SHEET

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

Project : **MCM-Physical Education Building-Abatment** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **January 28, 2020** **On-Site** 6:00:00 **TO** 16:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
12820-5089-016-B-01	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Opened***
12820-5089-016-B-02	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Closed***
12820-5089-016-B-03	EV	2.5	6:34	2.4	2.5	14:36	482	1181	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **03**. Front of Classroom-114 Door Corridor area.
12820-5089-016-B-04	EV	2.5	6:34	2.4	2.5	14:36	482	1181	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **04**. Front of Dance-Studio-121 DoorvCorridor area.
12820-5089-016-B-05	EV	2.5	6:34	2.5	2.5	14:37	483	1208	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **05**. Front of Classroom-126 Door Corridor area.
12820-5089-016-B-06	EV	2.5	6:34	2.3	2.4	14:37	483	1159	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **06**. Front of Main Food-Coner-102 Lobby area.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***						

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than **0.01 f/cc (<0.01)**. This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	January 28, 2020
ON SITE FROM:	6.30 TO 16.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	10 MILEAGE 60	Air Samples I.D.	1282020-100.5089.016-B

Scope of Work

Quick Glance: Physical Education Building abatement Project.
ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Cross contaminated Debris withing the project locations

Project location: Containmenmt-1-A = 121-Dance Studio, 121A Mech, 119-Storage.
Containmenmt-1-B = 115-Womens-Toilet
Containmenmt-2 = 147-Storage & Corridor.
Containmenmt-3 = 140-Weight Room & attached Corridor.
Containmenmt-4 = 142-Mechanical Room.
Containmenmt-5 = Classrooms & attached Corridor Main Entrances Lobby location.

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768 BALTIMORE AVE, BELTSVILLE, MD 20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Tidewater Inc (IH) Walter Gonzalo (240-310-6633), MC-Campus Environmental Safety Manager (POC) Sharmila Pradhan (CHMM) (301-651-0393) Barco-Abatement Crew Supervisor (Wendy) Gustavo Morales (703-870-0125) and substitutes crew supervisor Gustavo Morales (571-275-6944) on site Project location Physical Education Building and discussed project work scope details. 6:00 Setup Environmental air sampling pumps 1st floor selected corridor Project location flow rate measured with a Rotameter at the start of the air sampling process. walked throughout project location, observed Barco abatement crew on site, continued with setup preparation.
7:00	Barco abatement crew continued containment setup preparation, met with crew supervisor Wendy and discussed activities progress details.
8.00	Continued containment setup preparation
9.00	Continued containment setup preparation
11:00	walked throughout project location, observed Barco abatement crew on site, continued with setup preparation. Met with MC-Campus Environmental Safety Officer (POC) & Michael Rocke (240-753-2526) and Barco-Abatement Crew Supervisor (Wendy) Morales (703-870-0125) on site Project location (Physical Education Building) and discussed project work scope details, including Air handles shut down request details.
12.00	Barco abatement crew continued containment setup preparation.
13.00	Barco abatement crew continued containment setup preparation
14.30	Collected Environmental air sampling pumps from 1st floor selected corridor Project location flow rate measured with a Rotameter at the end of the air sampling process Analysis PCM air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
15.00	Continued containment setup preparation

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

16.30	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
	Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. <u>Industrial Hygiene Consultant Accreditation:</u> • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-19002271) (Exp-date: Jan-2021) • Supervisor (State of Maryland I.D-19002651) (Exp-date: Jan-2021)

Reviewed by: _____

EXHIBIT A

ASBESTOS PRE-ABATEMENT CHECKLIST

Building:	Physical Education bldg.	**Project**:	Montgomery College (Rockville) #5089-016
Location:	Containmenmt-2 = 147-Storage / Corridor	**Date**:	Jan-29-2020
Removal Contractor:	BARCO	**Time Inspected**:	11.00
Monitoring:	A. Kahawita / Oscar (Tidewater)	**Time Removal Began**:	11.15

Inspection Category	Activity to be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓ ✓ ✓	
2. Signage	a. Caution signs at vestibule entry	✓		**5. Work Habits in Work Area**	**d.** No smoking **e.** No eating/drinking	✓ ✓	
	b. OSHA ASBESTOS SIGN	✓					
	c. Dumpster, drums and bags labeled	✓					

FIELD NOTES: (Describe any problems encountered) None.

EXHIBIT B

ASBESTOS ABATEMENT CHECKLIST (Daily)

Building:	Physical Education Building	**Project**:	Montgomery College (Rockville) #5089-016
Location:	Cont-2 = 147-Storage & Corridor	**Date**:	Jan-29-2020
Removal Contractor:	BARCO	**Time Inspected**:	15:15
Monitoring:	A. Kahawita / Oscar (Tidewater)	**Time Removal Began**:	11:15

Inspection Category	Activity to be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine" in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓	
2. Signage	**a.** Caution signs at vestibule entry	✓		**5. Work Habits in Work Area**	**d.** No smoking **e.** No eating/drinking	✓	
	b. OSHA ASBESTOS SIGN	✓		6. **Work Practices**	a. Hammers, Saws, etc. NOT in use b. Removed Material Promptly Bagged c. Debris Stored Properly	✓	
	c. Dumpster, drums and bags labeled	✓					

FIELD NOTES: (Describe any problems encountered)

NONE

TIDEWATER INC

PCM AIR SAMPLE DATA SHEET

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

Project : **MCM-Physical Education Building-Abatment** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **January 29, 2020** **On-Site** 6:00:00 **TO** 16:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
12920-5089-016-C-01	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Opened***
12920-5089-016-C-02	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Closed***
12920-5089-016-C-03	EV	2.0	6:51	2.0	2.0	14:46	475	950	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **03**. Front of Classroom-114 Door Corridor area.
12920-5089-016-C-04	EV	2.0	6:51	2.0	2.0	14:46	475	950	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **04**. Front of Dance-Studio-121 DoorvCorridor area.
12920-5089-016-C-05	EV	2.0	6:51	2.0	2.0	14:46	475	950	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **05**. Front of Classroom-126 Door Corridor area.
12920-5089-016-C-06	WA	3.0	11:49	3.0	3.0	15:56	247	741	9.5	100	0	12.10	**0.01**	☐ Work-Area ☐ • **06**. Inside Containment-1 of 147 Storage & Corridor area.
12920-5089-016-C-07	EV	3.0	11:52	3.0	3.0	15:58	246	738	1	100	0	1.27	**0.00**	☐ Environmental ☐ • **07**. Front of Deco Containment-1 of 147 Storage.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***						

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than **0.01 f/cc (<0.01)**. This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type **= *25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** **= *5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	January 29, 2020
ON SITE FROM:	7.30 TO 17.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	10 MILEAGE 60	Air Samples I.D.	1292020-100.5089.016-C

Scope of Work

Quick Glance: Physical Education Building abatement Project.
ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location: Containmenmt-1-A = 121-Dance Studio, 121A Mech, 119-Storage. (Preparation)
Containmenmt-1-B = 115-Womens-Toilet. (Preparation)
Containmenmt-2 = 147-Storage & Corridor. (Preparation) & (**Active**)
Containmenmt-3 = 140-Weight Room & attached Corridor. (Preparation)
Containmenmt-4 = 142-Mechanical Room. **(Pending)**
Containmenmt-5 = Classrooms & attached Corridor Main Entrances Lobby location. **(Pending)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768 BALTIMORE AVE, BELTSVILLE, MD 20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

7:30	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Tidewater Inc, (CIH) & Project Manager Skanda (443-983-0362), Tidewater Inc (IH) Walter Gonzalo (240-310-6633), MC-Campus Environmental Safety Manager (POC) Sharmila Pradhan (CHMM) (301-651-039)3 & Michael Rocke (240-753-2526), Barco-Abatement Crew Supervisor (Wendy) Gustavo Morales (703-870-0125) Project location Physical Education Building and discussed project work scope details. walked throughout project location, observed Barco abatement crew on site, continued with setup preparation.
9:30	Barco abatement crew continued containment setup preparation, met with crew supervisor Wendy and discussed activities progress details. • Setup environmental air sampling pumps 1st floor selected corridor Project location flow rate measured with a Rotameter at the start of the air sampling process.
11:00	Walked throughout project location, observed Barco abatement crew on site, continued with setup preparation. Met with Wendy and discussed activities progress details. Containmenmt-2 = 147-Storage & Corridor is ready for abatement conducted visual inspection and approved abatement, setup air sampling pumps on site.
12.00	Barco abatement crew continued containment setup preparation.
13.00	Barco abatement crew continued containment setup preparation. Communicated with Tidewater Inc, (CIH) & Project Manager Skanda (443-983-0362) and discussed project complained of Interfering the (abatement methods) and issue with Tidewater Inc (IH) Walter Gonzalo (240-310-6633) and Barco-Abatement Crew Supervisor (Wendy) Gustavo Morales (703-870-0125).
14.00	Collected air sampling pumps from 1st floor selected corridor Project location flow rate measured with a Rotameter at the end of the air sampling process Analysis Back-Ground PCM air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
	Walked throughout project location, observed Barco abatement crew continued with abatement and containment setup preparation. Met with Wendy and discussed activities progress details. Inspected Containmenmt-2 (147-Storage & Corridor) abatement completed on this project location conducted post visual inspection of the work area and found No suspected material od visible dust withing the scope of work areas and approved encapsulation of the work areas, and collected air samples from Containmenmt-2.

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

16.00	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
	Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. <u>Industrial Hygiene Consultant Accreditation:</u> • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-19002271) (Exp-date: Jan-2021) • Supervisor (State of Maryland I.D-19002651) (Exp-date: Jan-2021)

Reviewed by: _____

EXHIBIT A

ASBESTOS PRE-ABATEMENT CHECKLIST

Building:	Physical Education bldg.	**Project**:	Montgomery College (Rockville) #5089-016
Location:	115--Toilet & Dance-St-121 & 140-Weight	**Date**:	Jan-30-2020
Removal Contractor:	BARCO	**Time Inspected**:	11:15 & 15:45 & 13:45
Monitoring:	A. Kahawita / Oscar (Tidewater)	**Time Removal Began**:	06:15 & 07:00 & 16:00

Inspection Category	Activity to be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓ ✓ ✓	
2. Signage	a. Caution signs at vestibule entry	✓		**5. Work Habits in Work Area**	**d.** No smoking **e.** No eating/drinking	✓ ✓	
	b. OSHA ASBESTOS SIGN	✓					
	c. Dumpster, drums and bags labeled	✓					

FIELD NOTES: (Describe any problems encountered) None.

EXHIBIT B

ASBESTOS ABATEMENT CHECKLIST (Daily)

Building:	Physical Education Building	**Project**:	Montgomery College (Rockville) #5089-016
Location:	115--Toilet & Dance- St-121 & 140-Weight	**Date**:	Jan-30-2020
Removal Contractor:	BARCO	**Time Inspected**:	11:15 & 15:45 & 13:45
Monitoring:	A. Kahawita / Oscar (Tidewater)	**Time Removal Began**:	06:15 & 07:00 & 16:00

Inspection Category	Activityto be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine" in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓	
2. Signage	**a.** Caution signs at vestibule entry	✓		**5. Work Habits in Work Area**	**d.** No smoking **e.** No eating/drinking	✓	
	b. OSHA ASBESTOS SIGN	✓		6. **Work Practices**	a. Hammers, Saws, etc. NOT in use b. Removed Material Promptly Bagged c. Debris Stored Properly	✓	
	c. Dumpster, drums and bags labeled	✓					

FIELD NOTES: (Describe any problems encountered)

NONE

TIDEWATER INC

PCM & TEM AIR SAMPLE DATA SHEET

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **January 30, 2020** **On-Site** 6:00:00 **TO** 16:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **Yes**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location	
13020-5089-016-D-01	FB									100	0	0.00	**0.00**	***Filed Blank***	***Opened***
13020-5089-016-D-02	FB									100	0	0.00	**0.00**	***Filed Blank***	***Closed***
13020-5089-016-D-03	**WA**	3.0	6:15	3.0	3.0	11:26	311	933	6	100	0	7.64	**0.00**	☐ **Work-Area**	☐ • **03.** Inside Containmenmt-1-B = 115-Womens-Toilet
13020-5089-016-D-04	EV	3.0	6:18	3.0	3.0	11:29	311	933	0.5	100	0	0.64	**0.00**	☐ Environmental	☐ • **04.** Front of Deco Containmenmt-1-B = 115-Womens-Toilet
13020-5089-016-D-05	**WA**	2.0	6:49	2.0	2.0	15:46	537	1074	9.5	100	0	12.10	**0.00**	☐ **Work-Area**	☐ • **05.** Inside Containment-1/A Dance-Studio-121 area.
13020-5089-016-D-06	EV	2.0	6:53	2.0	2.0	15:36	523	1046	0	100	0	0.00	**0.00**	☐ Environmental	☐ • **06.** Front of Decon Dance-Studio-121 Door Corridor area.
13020-5089-016-D-07	**FB**													**Filed Blank**	***Open***
13020-5089-016-D-08	**FB**													**Filed Blank**	***Closed***
13020-5089-016-D-09	**FC**	10.0	10:38	10.0	10.0	12:40	122	1220						☐ **Final**	☐ • **06.** Inside Containment-2 of 147 Storage/Corridor
13020-5089-016-D-10	**FC**	10.0	10:38	10.0	10.0	12:40	122	1220						☐ **Final**	☐ • **06.** Inside Containment-2 of 147 Storage/Corridor
13020-5089-016-D-11	**FB**													**Filed Blank**	***Open***
13020-5089-016-D-12	**FB**													**Filed Blank**	***Closed***
13020-5089-016-D-13	**FC**	10.0	12:33	10.0	10.0	14:34	121	1210						☐ **Final**	☐ • **06.** Inside Containmenmt-1-B = 115-Womens-Toilet
13020-5089-016-D-14	**WA**	3.5	13:58	3.5	3.5	16:08	130	455	5.5	100	0	7.01	**0.01**	☐ **Work-Area**	☐ • **06.** Inside Containmenmt-3 = 140-Weight-Room
13020-5089-016-D-15	EV	4.0	14:01	4.0	4.0	16:10	129	516	0	100	0	0.00	**0.00**	☐ Environmental	☐ • **04.** Front of Decon Containmenmt-3 = 140-Weight-Room
-	-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***					

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification.

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	January 30, 2020
ON SITE FROM:	6.00 TO 16.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	10 MILEAGE 80	Air Samples I.D.	1302020-100.5089.016-D

Scope of Work

Quick Glance: Physical Education Building abatement Project.
ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location: Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage**. (Active)**
Containmenmt-**1**-**B** = 115-Womens-Toilet **(Active)**
Containmenmt-**2** = 147-Storage & Corridor. **(Active)**
Containmenmt-**3** = 140-Weight Room. **(Preparation) (Active)**
Containmenmt-**4** = 142-Mechanical Room. **(Preparation)**
Containmenmt-**5** = Classrooms & attached Corridor Main Entrances Lobby location. **(Preparation)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768 Baltimore Ave, Beltsville, MD 20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Tidewater Inc (IH) Walter (240-310-6633), Barco-Abatement Crew Supervisor (Wendy) Gustavo Morales (703-870-0125) and discussed project work scope details. • Conducted Pre abatement visual inspection of the Containmenmt-**1**-**B** = 115-Womens-Toilet work areas with crew supervisor and is acceptable for Ceiling Tiles removal, critical containment barriers of construction acceptable, securely affixed to supporting structures, some of the movable equipment furthers critical with double poly sheeting, rest of the floor walls and other critical with 6 mill poly sheet, required work practices and engineering control tools on site including air less spry and HEPA vacuum 12 Plus Air negative units attached to the containment t and operating at and optimum flow rate. Decontamination facility areas clean, authorized ceiling tile abatement • Abatement crew proceed to work area followed by proper PPE with ½ face respirators See attached PCM sample data sheet for location and flow rates and the sampling time schedules with full details. • Conducted Pre abatement visual inspection of the Containment-1/A Dance-Studio-121 work areas with crew supervisor and is acceptable for Ceiling Tiles removal, critical containment barriers of construction acceptable, securely affixed to supporting structures, some of the movable equipment furthers critical with double poly sheeting, rest of the floor walls and other critical with 6 mill poly sheet, required work practices and engineering control tools on site including air less spry and HEPA vacuum 12 Plus Air negative units attached to the containment t and operating at and optimum flow rate. Decontamination facility areas clean, authorized ceiling tile abatement • Abatement crew proceed to work area followed by proper PPE with ½ face respirators • See attached PCM sample data sheet for location and flow rates and the sampling time schedules with full details.
7:30	Met with MC-Campus Environmental Safety Manager (POC) Sharmila Pradhan (CHMM) (301-651-039)3 & Barco-Abatement Crew Supervisor (Wendy) Gustavo Morales (703-870-0125) Project location PE-Building and discussed project work scope details.
8:00	Barco abatement crews continued abatement and continued containment setup preparation, walked throughout project location no problems observed. Decon area clean adequate of worker protection disposable material on site.
9.30	Continued Project activities. Met with Barco on site crew supervisor Wendy and discussed activities progress details.
10.30	• Setup High volume TEM final clearances air samples Containmenmt-**2** = 147-Storage areas pumps flow rate measured with a Rotameter at the start ($10.0^{(LPM)}$), critical containment barriers are secure and sound, air negative units operating at and optimum flow rate, Decon areas clean, negative pressures reading greater than (0.02).

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

11.30	Met with Tidewater Inc, (CIH) & Project Manager Skanda (443-983-0362), Barco-Abatement Crew Supervisor (Wendy) Gustavo Morales (703-870-0125) Project location Physical Education Building and discussed project work scope details. Walked throughout project locations, Barco abatement crew on lunch break. Removed waste has been properly sealed bagged and labeled in accordance's with 29-CFR-1926-1101 (K) (2) guideline and stored on site Barco waste transportation Hauler
12.00	Barco abatement crews continued abatement and continued containment setup preparation, walked throughout project location no problems observed. Decon area clean adequate of worker protection disposable material on site • Setup High volume TEM final clearances air samples Containmenmt-**1**-**B** = 115-Womens-Toilet areas pumps flow rate measured with a Rotameter at the start ($10.0^{(LPM)}$), critical containment barriers are secure and sound, air negative units operating at and optimum flow rate, Decon areas clean, negative pressures reading greater than (0.02).
13.45	Abatement crew supervisor Wendy informed that weight room containment-**3**, is ready for pre abatement visual inspection. • Conducted Pre abatement visual inspection of the Containmenmt-**3** = 140-Weight Room work areas with crew supervisor and is acceptable for Ceiling Tiles removal, critical containment barriers of construction acceptable, securely affixed to supporting structures, some of the movable equipment furthers critical with double poly sheeting, rest of the floor walls and other critical with 6 mill poly sheet, required work practices and engineering control tools on site including air less spry and HEPA vacuum 12 Plus Air negative units attached to the containment t and operating at and optimum flow rate. Decontamination facility areas clean, authorized ceiling tile abatement • Abatement crew proceed to work area followed by proper PPE with ½ face respirators • See attached PCM sample data sheet for location and flow rates and the sampling time schedules with full details
	Analysis PCM air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
16.30	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
	Delivered TEM air samples to EMSL Analytical Inc. 10768 BALTIMORE AVE, BELTSVILLE, MD 20705. Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. Industrial Hygiene Consultant Accreditation: • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-19002271) (Exp-date: Jan-2021) • Supervisor (State of Maryland I.D-19002651) (Exp-date: Jan-2021)

Reviewed by: _____

EXHIBIT A

ASBESTOS PRE-ABATEMENT CHECKLIST

Building:	Physical Education bldg.	**Project**:	Montgomery College (Rockville) #5089-016
Location:	Dance-RM-121 & Weight-RM-140	**Date**:	Jan-31-2020
Removal Contractor:	BARCO	**Time Inspected**:	6:15 & 14:00
Monitoring:	A. Kahawita / Oscar (Tidewater)	**Time Removal Began**:	6:15

Inspection Category	Activity to be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓ ✓ ✓	
2. Signage	a. Caution signs at vestibule entry	✓		**5. Work Habits in Work Area**	**d.** No smoking **e.** No eating/drinking	✓ ✓	
	b. OSHA ASBESTOS SIGN	✓					
	c. Dumpster, drums and bags labeled	✓					

FIELD NOTES: (Describe any problems encountered) None.

EXHIBIT B

ASBESTOS ABATEMENT CHECKLIST (Daily)

Building:	Physical Education Building	**Project**:	Montgomery College (Rockville) #5089-016
Location:	Dance-RM-121 & Weight-RM-140	**Date**:	Jan-31-2020
Removal Contractor:	BARCO	**Time Inspected**:	14:00
Monitoring:	A. Kahawita / Oscar (Tidewater)	**Time Removal Began**:	06:15

Inspection Category	Activityto be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine" in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓	
2. Signage	**a.** Caution signs at vestibule entry	✓		**5. Work Habits in Work Area**	**d.** No smoking **e.** No eating/drinking	✓	
	b. OSHA ASBESTOS SIGN	✓		6. **Work Practices**	a. Hammers, Saws, etc. NOT in use b. Removed Material Promptly Bagged c. Debris Stored Properly	✓	
	c. Dumpster, drums and bags labeled	✓					

FIELD NOTES: (Describe any problems encountered)

NONE

TIDEWATER INC

PCM & TEM AIR SAMPLE DATA SHEET

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **January 31, 2020** **On-Site** 6:00:00 **TO** 16:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
13120-5089-016-E-01	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Opened***
13120-5089-016-E-02	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Closed***
13120-5089-016-E-03	WA	2.0	6:12	2.0	2.0	15:28	556	1112	18	100	0	22.93	**0.01**	☐ Work-Area ☐ • **05**. Inside Containment-1/A Dance-Studio-121 area.
13120-5089-016-E-04	EV	2.0	6:16	2.0	2.0	15:34	558	1116	1.5	100	0	1.91	**0.00**	☐ Environmental ☐ • **06**. Front of Decon Dance-Studio-121 Door Corridor area.
13120-5089-016-E-05	WA	3.5	6:32	3.5	3.5	15:47	555	1943	21.5	100	0	27.39	**0.01**	☐ Work-Area ☐ • **06**. Inside Containmenmt-3 = 140-Weight-Room
13120-5089-016-E-06	EV	4.0	6:35	4.0	4.0	15:50	555	2220	1.5	100	0	1.91	**0.00**	☐ Environmental ☐ • **04**. Front of Decon Containmenmt-3 = 140-Weight-Room
-	-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***				

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC

PCM & TEM AIR SAMPLE DATA SHEET

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date January 31, 2020 **On-Site** 6:00:00 **TO** 16:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
13120-5089-016-E-01	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Opened***
13120-5089-016-E-02	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Closed***
13120-5089-016-E-03	WA	2.0	6:12	2.0	2.0	15:28	556	1112	18	100	0	22.93	**0.01**	☐ Work-Area ☐ • **05**. Inside Containment-1/A Dance-Studio-121 area.
13120-5089-016-E-04	EV	2.0	6:16	2.0	2.0	15:34	558	1116	1.5	100	0	1.91	**0.00**	☐ Environmental ☐ • **06**. Front of Decon Dance-Studio-121 Door Corridor.
13120-5089-016-E-05	WA	3.5	6:32	3.5	3.5	15:47	555	1943	21.5	100	0	27.39	**0.01**	☐ Work-Area ☐ • **06**. Inside Containmenmt-3 = 140-Weight-Room
13120-5089-016-E-06	EV	4.0	6:35	4.0	4.0	15:50	555	2220	1.5	100	0	1.91	**0.00**	☐ Environmental ☐ • **04**. Front of Decon Containmenmt-3 = 140-Weight-Rm
-	-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***				

COMMENTS:

Samples Ran, collected and Analyzed by,**A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area =**385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 1, 2020
ON SITE FROM:	6.00 TO 16.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	10 MILEAGE 80	Air Samples I.D.	212020-100.5089.016-F

Scope of Work

Quick Glance: Physical Education Building abatement Project.
ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location: Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **(Active)**
Containmenmt-**3** = 140-Weight Room. **(Active)**
Containmenmt-**4** = 142-Mechanical Room. **(Preparation)**
Containmenmt-**5** = Classrooms & attached Corridor Main Entrances Lobby location. **(Preparation)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768 Baltimore Ave, Beltsville, MD 20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Tidewater Inc (IH) Walter (240-310-6633), Barco-Abatement Crew Supervisor (Wendy) Gustavo Morales (703-870-0125) and discussed project work scope details. • Inspected (Containment-**1/A** Dance-Studio-121) & (Containmenmt-**3** = 140-Weight Room) work areas critical containment barriers are secured and sound required work practices and engineering control tools on site including air less spry and HEPA vacuum Air negative units operating at and optimum flow rate. Decontamination facility areas clean. • Abatement crew proceed to work area followed by proper PPE with ½ face respirators • See attached PCM sample data sheet for location and flow rates and the sampling time schedules with full details.
7:00	Barco abatement crews continued abatement and continued containment setup preparation, walked throughout project location no problems observed. Decon area clean adequate of worker protection disposable material on site.
8:00	Barco abatement crews continued abatement and continued containment setup preparation, walked throughout project location no problems observed. Decon area clean adequate of worker protection disposable material on site.
9.0	Continued Project activities. Met with Barco on site crew supervisor Wendy and discussed activities progress details.
10.00	Barco abatement crews continued abatement and continued containment setup preparation, walked throughout project location no problems observed. Decon area clean adequate of worker protection disposable material on site.
11.00	Barco abatement crews left for lunch break. Abatement activities final cleaning and continued containment setup preparation continued followed by crew meal break. walked throughout project location no problems observed. Decon area clean adequate of worker protection disposable material on site.
12.00	Barco abatement crews continued abatement and continued containment setup preparation, walked throughout project location no problems observed. Decon area clean adequate of worker protection disposable material on site.
13.00	Met with Barco-Abatement Crew Supervisor Wendy & project manager Brett Harrison and discussed project activities progress details, TEM lab analysis result arrived, bass on TEM lab results, authorized teardown of the work areas of Containmenmt-**1**-**B** = 115-Womens-Toilet and Containmenmt-**2** = 147-Storage & Corridor location and advice to followed proper teardown cleaning procedures mentioned end of this report.
13.30	Barco Project manager requested TEM Air samples results from me, I asked him to get it from either Tidewater (CIH), following argument he used unwanted word on me and I want him not to use any bad word again for any request and discussion.
14.00	Barco Abatement crew supervisor informed Containment-**1/A** Dance-Studio-121 of the containment ready for post abatement visual inspection.

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

	• Conducted Post abatement visual inspection of the (Containment-**1/A** Dance-Studio-121) work areas visual inspection observation FOUN final cleaning HEPA vacuum inadequate Mechanical room area under the units and around the units need further cleaning and some areas of the pipe joint need proper cleaning visible dust and waste found within the this work areas, Final cleaning HEPA vacuumed, wet wipe process need to be continued **(Visual Inspection Failed**), critical containment barriers are secure and sound, Air negative units operating at an optimum flow rate. Collected air samples. Decon areas clean.
15.00	Inspected (Containmenmt-**3** = 140-Weight Room) work areas critical containment barriers are secured and sound required work practices and engineering control tools on site including air less spry and HEPA vacuum Air negative units operating at and optimum flow rate. Crew continued final cleaning process, collected air samples Decontamination facility areas clean
	Analysis PCM air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
16.30	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
	Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. <u>Industrial Hygiene Consultant Accreditation:</u> • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-19002271) (Exp-date: Jan-2021) • Supervisor (State of Maryland I.D-19002651) (Exp-date: Jan-2021)
	Procedures should be follow-up when containment teardown cleanup process If teardown cleanup activities unable to monitor by project monitor inspector, abatement crew need to follow-up following method: • All ploys must remove from the facility structures and bagged as asbestos waste. • All equipment tools, materials, supplies and waste must remove. • Spray glue and or tape residue adequately clean from facility structures. • Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum) • Keep air Negative units (if Possible) until final teardown completion.

Reviewed by: _____

EXHIBIT A

ASBESTOS PRE-ABATEMENT CHECKLIST

Building:	Physical Education bldg.	**Project**:	Montgomery College (Rockville) #5089-016
Location:	Dance-RM-121 & Weight-RM-140	**Date**:	Feb-01-2020
Removal Contractor:	BARCO	**Time Inspected**:	06:15
Monitoring:	A. Kahawita / Oscar (Tidewater)	**Time Removal Began**:	06:30

Inspection Category	Activity to be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓ ✓ ✓	
2. Signage	a. Caution signs at vestibule entry	✓		**5. Work Habits in Work Area**	**d.** No smoking **e.** No eating/drinking	✓ ✓	
	b. OSHA ASBESTOS SIGN	✓					
	c. Dumpster, drums and bags labeled	✓					

FIELD NOTES: (Describe any problems encountered) None.

EXHIBIT B

ASBESTOS ABATEMENT CHECKLIST (Daily)

Building:	Physical Education Building	**Project**:	Montgomery College (Rockville) #5089-016
Location:	Dance-RM-121 & Weight-RM-140	**Date**:	February-1-2020
Removal Contractor:	BARCO	**Time Inspected**:	14:00
Monitoring:	A. Kahawita / Oscar (Tidewater)	**Time Removal Began**:	06:30

Inspection Category	Activityto be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine" in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓	
2. Signage	**a.** Caution signs at vestibule entry	✓		**5. Work Habits in Work Area**	**d.** No smoking **e.** No eating/drinking	✓	
	b. OSHA ASBESTOS SIGN	✓		6. **Work Practices**	a. Hammers, Saws, etc. NOT in use b. Removed Material Promptly Bagged c. Debris Stored Properly	✓	
	c. Dumpster, drums and bags labeled	✓					

FIELD NOTES: (Describe any problems encountered)

NONE

TIDEWATER INC

PCM & TEM AIR SAMPLE DATA SHEET

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **February 1, 2020** **On-Site** 6:00:00 **TO** 16:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
2120-5089-016-F-01	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Opened***
2120-5089-016-F-02	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Closed***
2120-5089-016-F-03	WA	2.0	6:12	2.0	2.0	15:28	556	1112	18	100	0	22.93	**0.01**	☐ Work-Area ☐ • **05**. Inside Containment-1/A Dance-Studio-121 area.
2120-5089-016-F-04	EV	2.0	6:16	2.0	2.0	15:34	558	1116	1.5	100	0	1.91	**0.00**	☐ Environmental ☐ • **06**. Front of Decon Dance-Studio-121 Door Corridor area.
2120-5089-016-F-05	WA	3.5	6:32	3.5	3.5	15:47	555	1943	21.5	100	0	27.39	**0.01**	☐ Work-Area ☐ • **06**. Inside Containmenmt-3 = 140-Weight-Room
2120-5089-016-F-06	EV	4.0	6:35	4.0	4.0	15:50	555	2220	1.5	100	0	1.91	**0.00**	☐ Environmental ☐ • **04**. Front of Decon Containmenmt-3 = 140-Weight-Room
-	-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***				

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

PCM & TEM AIR SAMPLE DATA SHEET

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **February 1, 2020** **On-Site** 6:00:00 **TO** 14:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **Yes**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location	
2120-5089-016-F-01	FB													***Filed Blank***	***Opened***
2120-5089-016-F-02	FB													***Filed Blank***	***Closed***
2120-5089-016-F-03	**WA**	2.5	6:17	2.4	2.5	12:55	398	975	8.5	100	0	10.83	**0.00**	☐ **Work Area**	☐ • **03.** Inside Containment-1/A Dance-Studio-121 area.
2120-5089-016-F-04	**EV**	3.0	6:20	2.9	3.0	12:57	397	1171	1	100	0	1.27	**0.00**	☐ **Environmental**	☐ • **04.** Outside Containment-1/A Dance-Studio-121 area.
2120-5089-016-F-05	**FB**													**Filed Blank**	***Open***
2120-5089-016-F-06	**FB**													**Filed Blank**	***Closed***
2120-5089-016-F-07	**FC**	10.0	9:55	9.8	9.9	12:02	127	1257	0					☐ **Final-TEM**	☐ • **10.** Inside Containmenmt-3 = 140-Weight-RM-W/End
2120-5089-016-F-08	**FC**	10.0	9:55	10.0	10.0	12:02	127	1270	0					☐ **Final-TEM**	☐ • 10. Inside Containmenmt-3 = 140-Weight-RM-S/End
2120-5089-016-F-09	**FC**	10.0	9:55	10.0	10.0	12:03	128	1280	0					☐ **Final-TEM**	☐ • **10.** Inside Containmenmt-3 = 140-Weight-Room-Center
2120-5089-016-F-10	**FC**	10.0	9:55	9.9	10.0	12:03	128	1274	0					☐ **Final-TEM**	☐ • **10.** Inside Containmenmt-3 = 140-Weight-MFCH-RM
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***						

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 01, 2020
ON SITE FROM:	6.00 TO 14.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	08 MILEAGE 80	Air Samples I.D.	212020-100.5089.016-F

Scope of Work

Quick Glance: Physical Education Building abatement Project.
ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location: Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage**. (Active)**
Containmenmt-**3** = 140-Weight Room. **(Preparation) (Active)**
Containmenmt-**4** = 142-Mechanical Room. **(Preparation)**
Containmenmt-**5** = Classrooms & attached Corridor Main Entrances Lobby location. **(Preparation)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768 BALTIMORE AVE, BELTSVILLE, MD 20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Tidewater Inc (IH) Walter (240-310-6633), Barco-Abatement Crew Supervisor (Wendy) Gustavo Morales (703-870-0125 / 571-275-6944) and discussed project work scope details. Continued final cleaning HEPA vacuum process following containment Project location. • Inspected (Containment-**1/A** Dance-Studio-121) work areas critical containment barriers are secured and sound required work practices and engineering control tools on site including air less spry and HEPA vacuum Air negative units operating at and optimum flow rate. Decontamination facility areas clean. • Abatement crew proceed to work area followed by proper PPE with ½ face respirators • See attached PCM sample data sheet for location and flow rates and the sampling time schedules with full details.
7:00	Communicated with Tidewater Inc (IH) Walter (240-310-6633), and (CIH) Project Manager Skanda and discussed project work scope details and TEM air samples TAT schedules details.
8:00	Barco Abatement crew supervisor informed Containmenmt-**3** = 140-Weight Room & Containment-**1/A** Dance-Studio-121 of the containment ready for post abatement visual inspection. • Conducted Post abatement visual inspection Containmenmt-**3** = 140-Weight Room of the work areas with crew supervisor and Tidewater (IH) Walter, walked throughout work area, visual inspection observation FOUN NO visible dust or waste within the scope of work areas, Final cleaning HEPA vacuumed, wet wipe process conducted in an acceptable manner and meet the requirements, critical containment barriers are secure and sound, Air negative units operating at an optimum flow rate, authorized lock down encapsulation of the work area and advice crew supervisor to applied extract encapsulation above the ceiling areas Black Mastic sealant attach Duct system and pipe insulation areas. Collected work areas air samples. Decon areas clean, negative pressures greater than (0.02). final visual inspection PASSED, inspection started 8.00am and completed by 8.30am. • Conducted Post abatement 2nd visual inspection of the (Containment-**1/A** Dance-Studio-121) work areas crew supervisor and Tidewater (IH) Walter visual inspection observation FOUN final cleaning HEPA vacuum inadequate Mechanical room area units and around the units need further cleaning found one 1" by elbow with mudded fitting need to be abated, and above the light system covering and duct need to be clean, (Visible Dust present) the pipe joint need proper cleaning visible dust and waste found within the this work areas, Final cleaning HEPA vacuumed, wet wipe process need to be continued **(Visual Inspection Failed)**, critical containment barriers are secure and sound, Air negative units operating at an optimum flow rate.
9.00	Continued Project activities. discussed activities progress details with Tidewater Inc (IH) Walter (240-310-6633). Barco abatement crews continued abatement and continued containment setup preparation, walked throughout project location no problems observed. Decon area clean adequate of worker protection disposable material on site.

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

10.00	• Inspected and Setup High volume TEM final clearances air samples Containmenmt-**3** = 140-Weight Room project areas pumps flow rate measured with a Rotameter at the start ($10.0^{(LPM)}$), critical containment barriers are secure and sound, air negative units operating at and optimum flow rate, Decon areas clean, negative pressures reading greater than (0.02). • See attached TEM sample data sheet for locations.
11.00	Barco abatement crews left for lunch break. Abatement activities final cleaning and continued containment setup preparation continued followed by crew meal break.
12.00	• Collected TEM final clearances air samples from Containmenmt-**3** = 140-Weight Room project areas pumps flow rate measured with a Rotameter at the end of the sampling time, critical containment barriers are secure and sound, air negative units operating at and optimum flow rate, Decon areas clean, negative pressures reading greater than (0.02). See attached TEM sample data sheet for locations. Met with MC-Campus Environmental Safety Officer (POC) & Michael Rocke (240-753-2526) and Barco-Abatement Crew Supervisor (Wendy) Morales (703-870-0125), Tidewater Inc (IH) Walter (240-310-6633), on site Project location and discussed abatement Project work scope schedules details, including TEM air sampling TAT details. • Conducted Post abatement visual inspection Containment-**1/A** Dance-Studio-121 of the work areas with crew supervisor and Tidewater (IH) Walter, walked throughout work area, visual inspection observation FOUN NO visible dust or waste within the scope of work areas, Final cleaning HEPA vacuumed, wet wipe process conducted in an acceptable manner and meet the requirements, critical containment barriers are secure and sound, Air negative units operating at an optimum flow rate, authorized lock down encapsulation of the work area and advice crew supervisor to applied extract encapsulation above the ceiling areas Black Mastic sealant attach Duct system and pipe insulation areas. Collected work areas air samples. Decon areas clean, negative pressures greater than (0.02). final visual inspection PASSED • Removed ACM including 36 Mudded joint and fitting and 400sft of black mastic and 40sft of 9” x 9” floor tile mastic from Gymnasium storage facility and corridor door areas.
13.00	Continued Project activities. discussed activities.
14.00	Analysis PCM air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
14.30	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
	Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. TEM air samples delivered to EMSL Analytical Inc. 10768 BALTIMORE AVE, BELTSVILLE, MD 20705. Industrial Hygiene Consultant Accreditation: • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-19002271) (Exp-date: Jan-2021) • Supervisor (State of Maryland I.D-19002651) (Exp-date: Jan-2021)
	Procedures should be follow-up when containment teardown cleanup process • All ploys must remove from the facility structures and bagged as asbestos waste. • All equipment tools, materials, supplies and waste must remove. • Spray glue and or tape residue adequately clean from facility structures. • Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum) • Keep air Negative units (if Possible) until final teardown completion.

Reviewed by: _____

TIDEWATER INC

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

PCM & TEM AIR SAMPLE DATA SHEET

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **February 2, 2020** **On-Site** 6:00:00 **TO** 14:00:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **Yes**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
2220-5089-016-G-01	FB													***Filed Blank*** ***Opened***
2220-5089-016-G-02	FB													***Filed Blank*** ***Closed***
2220-5089-016-G-03	**FC**	10.0	7:07	9.8	9.9	9:12	125	1238						☐ **Final-TEM** ☐ • **03.** Inside Containment-1/A Dance Studio RM-121-B Mech
2220-5089-016-G-04	**FC**	10.0	7:07	10.0	10.0	9:12	125	1250						☐ **Final-TEM** ☐ • **04.** Inside Containment-1/A Dance Studio RM-121 / S-End
2220-5089-016-G-05	**FC**	10.0	7:07	9.9	10.0	9:13	126	1254						☐ **Final-TEM** ☐ • **05.** Inside Containment-1/A Dance Studio RM-121 / Center
2220-5089-016-G-06	**FC**	10.0	7:07	10.0	10.0	9:13	126	1260						☐ **Final-TEM** ☐ • **06.** Inside Containment-1/A Dance Studio (119-Storage)
2220-5089-016-G-07	**FC**	10.0	7:08	9.9	10.0	9:13	125	1244						☐ **Final-TEM** ☐ • **07.** Inside Containment-1/A Dance Studio (Corridor)
2220-5089-016-G-08	EV	3.0	7:35	2.8	2.9	13:14	339	983	1	100	0	1.27	**0.00**	☐ **Environmental** ☐ • **10.** Front of Main Lobby entrances door areas
2220-5089-016-G-09	EV	3.0	7:35	2.9	3.0	13:14	339	1000	0.5	100	0	0.64	**0.00**	☐ **Environmental** ☐ • **09.** Corridor front of Room 109 floor area
2220-5089-016-G-10	EV	3.0	7:36	3.0	3.0	13:14	338	1014	0	100	0	0.00	**0.00**	☐ **Environmental** ☐ • **07.** Front of Main Lobby Office RM-102 door areas
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***						

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 02, 2020
ON SITE FROM:	6.00 TO 14.00 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	08 MILEAGE 80	Air Samples I.D.	222020-100.5089.016G

Scope of Work

Quick Glance: Physical Education Building abatement Project.
ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location: Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage**. (Active) (FC)**
Containmenmt-**3** = 140-Weight Room. **(Teardown-Cleaning)**
Containmenmt-**4** = 142-Mechanical Room. **(Preparation) (Pending)**
Containmenmt-**5** = Classrooms & attached Corridor Main Entrances Lobby location. **(Pending))**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768 Baltimore Ave, Beltsville, MD 20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Tidewater Inc (IH) Walter (240-310-6633), Barco-Abatement Crew Supervisor (Wendy) Morales (703-870-0125) and discussed project work scope schedules details Containmenmt-**3** = 140-Weight Room TEM air samples Lab result (PASSED), based on the EMSL TEM air samples lab result authorized teardown of the 140-Weight Room Containmenmt-**3 project location**. Continued abatement 2nd floor project locations and continued containment setup preparation rest of the project location.
7:00	• Setup High volume TEM final clearances air samples Containment-**1/A** Dance-Studio-121 project areas pumps flow rate measured with a Rotameter at the start ($10.0^{(LPM)}$), critical containment barriers are secure and sound, air negative units operating at and optimum flow rate, Decon areas clean, negative pressures reading greater than (0.02). See attached TEM sample data sheet for locations. Setup environmental air samples 1st floor selected project location, pumps flow rate measured with a Rotameter at the start of the sampling.
8:00	Continued Project activities. discussed activities progress details with crew supervisor.
9.00	Continued Project activities. • Collected TEM final clearances air samples from Containment-**1/A** Dance-Studio-121 project, pumps flow rate measured with a Rotameter at the end of the sampling, critical containment barriers are secure and sound, air negative units operating at and optimum flow rate, Decon areas clean, negative pressures reading greater than (0.02). See attached TEM sample data sheet for locations.
11.00	Barco abatement crews left for lunch break.
13.00	Collected and Analysis PCM air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
14.30	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 03, 2020
ON SITE FROM:	6.00 TO 16.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	06 MILEAGE 60	Air Samples I.D.	232020-100.5089.016-H

Scope of Work

Quick Glance: Physical Education Building abatement Project.
ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations
Project location: Containmenmt-1-A = 121-Dance Studio, 121A Mech, 119-Storage. **(Waiting F/TEM-Results)** **(Teardown-Cleaning)**
Containmenmt-4 = 142-Mechanical Room. **(Preparation)**
Containmenmt-6 = 143-Storage-Pool-area. **(Preparation)**
Containmenmt-5 = Classrooms & attached Corridor Main Entrances Lobby location. **(Preparation)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768 BALTIMORE AVE, BELTSVILLE, MD 20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

11:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Tidewater Inc (IH) Walter (240-310-6633), Barco-Abatement Crew Supervisor (Wendy) Gustavo Morales (703-870-0125 / 571-275-6944) and discussed project work scope details. Continued abatement process f2nd floor containment Project location monitored by (IH) Walter. Barco abatement crews on lunch break • Setup environmental PCM air samples selected 1st floor project location, pumps flow rate measured with a Rotameter at the start of the sampling process.
12:00	Barco abatement crew continued containment setup preparation and continued abatement 2nd floor containment project location monitored by (IH) Walter.
15:30	Collected environmental air samples from project areas pumps flow rate measured with a Rotameter at the end of the sampling time. Analysis PCM air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy
14.30	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
	Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. Industrial Hygiene Consultant Accreditation: • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-19002271) (Exp-date: Jan-2021) • Supervisor (State of Maryland I.D-19002651) (Exp-date: Jan-2021)

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

	Procedures should be follow-up when containment teardown cleanup process • All ploys must remove from the facility structures and bagged as asbestos waste. • All equipment tools, materials, supplies and waste must remove. • Spray glue and or tape residue adequately clean from facility structures. • Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum) • Keep air Negative units (if Possible) until final teardown completion.

Reviewed by: _____

TIDEWATER INC

PCM & TEM AIR SAMPLE DATA SHEET

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **February 3, 2020** **On-Site** 11:00:00 **TO** 16:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
2320-5089-016-H-01	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Opened***
2320-5089-016-H-02	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Closed***
2320-5089-016-H-05	EV	2.0	11:34	2.0	2.0	15:32	238	476	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **05**. Front of Decon Dance-Studio-121 Door Corridor area.
2320-5089-016-H-06	EV	2.0	11:34	2.0	2.0	15:32	238	476	1	100	0	1.27	**0.00**	☐ Environmental ☐ • **06**. Front of Classroom-112- Door Corridor area.
2320-5089-016-H-14	EV	3.5	11:36	3.5	3.5	15:33	237	830	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **06**. Front of Lobby-101- Main Door area.
2320-5089-016-H-15	EV	4.0	11:36	4.0	4.0	15:33	237	948	0.5	100	0	0.64	**0.00**	☐ Environmental ☐ • **04**. Front of Staff-Locker-106 Door Corridor area.
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***					

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

EXHIBIT A

ASBESTOS PRE-ABATEMENT CHECKLIST

Building:	Physical Education bldg.	**Project**:	Montgomery College (Rockville) #5089-016
Location:	142-Mechanical Room	**Date**:	Feb-04-2020
Removal Contractor:	BARCO	**Time Inspected**:	06:15
Monitoring:	A. Kahawita / Oscar (Tidewater)	**Time Removal Began**:	06:30

Inspection Category	Activity to be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓ ✓ ✓	
2. Signage	a. Caution signs at vestibule entry	✓		**5. Work Habits in Work Area**	**d.** No smoking **e.** No eating/drinking	✓ ✓	
	b. OSHA ASBESTOS SIGN	✓					
	c. Dumpster, drums and bags labeled	✓					

FIELD NOTES: (Describe any problems encountered) None.

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 04, 2020
ON SITE FROM:	6.00 TO 16.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	10 MILEAGE 80	Air Samples I.D.	242020-100.5089.016-I

Scope of Work

Quick Glance: Physical Education Building abatement Project.
ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location: Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage**. (Teardown-Cleaning)**
Containmenmt-**4** = 142-Mechanical Room / Pool Office. **(Active)**
Containmenmt-**5** = Classrooms & attached Corridor Main Entrances Lobby location. **(Preparation)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768 Baltimore Ave, Beltsville, MD 20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Tidewater Inc (IH) Walter (240-310-6633), Barco-Abatement Crew Supervisor (Wendy) Gustavo Morales (703-870-0125 / 571-275-6944) and discussed project work scope details. Continued final cleaning HEPA vacuum process following containment Project location. • Conducted Pre abatement visual inspection of the Containmenmt-**4** = 142-Mechanical Room / Pool Office work areas with crew supervisor and is acceptable for Ceiling Tiles removal, critical containment barriers of construction acceptable, securely affixed to supporting structures, some of the movable equipment furthers critical with double poly sheeting, rest of the floor walls and other critical with 6 mill poly sheet, required work practices and engineering control tools on site including air less spry and HEPA Air negative units attached to the containment and operating at and optimum flow rate. Decontamination facility areas clean, authorized ceiling tile abatement • Abatement crew proceed to work area followed by proper PPE with ½ face respirators See attached PCM sample data sheet for location and flow rates and the sampling time schedules with full details.
7:00	Communicated with Tidewater Inc (CIH) Project Manager Skanda and discussed project work scope details and activities progress and schedules details.
8:00	Continued Project activities. discussed activities progress details with Tidewater Inc (IH) Walter (240-310-6633). Barco abatement crews continued abatement and continued containment setup preparation, walked throughout project location no problems observed. Decon area clean adequate of worker protection disposable material on site.
9.00	Continued Project activities, and removed waste load out process, removed ceiling tile bagging and removed waste load out process. removed waste has been properly sealed bagged and labeled in accordance's with 29-CFR-1926-1101 (K) (2) guideline and stored on site BARCO-Inc waste transportation Hauler
10:00	Continued Project activities.
11.00	Barco abatement crews left for lunch break. Abatement activities final cleaning and continued containment setup preparation continued followed by crew meal break.
13.00	Continued Project activities. Walked throughout project location, adequate worker protection disposable material on site, crew continued activities designated work project location, NO problem observed.
14:00	Continued Project activities. discussed activities progress details with supervisor, Barco abatement crews continued abatement and continued containment setup preparation, walked throughout project location no problems observed. Decon area clean adequate of worker protection disposable material on site.
15.00	Met with MC-Campus Environmental Safety Officer (POC) & Michael Rocke (240-753-2526) and discussed project work scope details, including Air handles shut down request details

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

	• Inspected & collected air samples from (Containmenmt-**4** = 142-Mechanical Room / Pool Office) work areas critical containment barriers are secured and sound required work practices and engineering control tools on site including air less spry and HEPA vacuum Air negative units operating at and optimum flow rate. Decontamination facility areas clean. Analysis PCM air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
16.30	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
	Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. Industrial Hygiene Consultant Accreditation: • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-19002271) (Exp-date: Jan-2021) • Supervisor (State of Maryland I.D-19002651) (Exp-date: Jan-2021)
	Procedures should be follow-up when containment teardown cleanup process • All ploys must remove from the facility structures and bagged as asbestos waste. • All equipment tools, materials, supplies and waste must remove. • Spray glue and or tape residue adequately clean from facility structures. • Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum) • Keep air Negative units (if Possible) until final teardown completion.
	Removed ACM-Quantity and description by (EACH) location & Containments. **(Abatement completed project locations)** 1. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **a.** Ceiling Tiles with **(Red Backing)** — **None** **b.** Mudded joint & Elbows — **37** **c.** Mastic (RM-119 /Storage area) — **500**^{SFT} **d.** 9" x "9" Floor Tile & Mastic (RM-119 /Storage area) — **60**^{SFT} 2. Containmenmt-**1**-**B** = 115-Womens-Toilet. **e.** Ceiling Tiles with **(Red Backing)** — **None** **f.** Mudded joint & Elbows — **None** 3. Containmenmt-**2** = 147-Storage & Corridor. **g.** Ceiling Tiles with (Red Backing) — **15** **h.** Mudded joint & Elbows — None 4. Containmenmt-**3** = 140-Weight Room & attached Corridor. **i.** Ceiling Tiles with (Red Backing) — **None** **j.** Suspected Dust & Debris (Mech) — **Lot** / Full Cleaning HEPA vacuumed.

Reviewed by: _____

TIDEWATER INC

PCM & TEM AIR SAMPLE DATA SHEET

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **February 4, 2020** **On-Site** 6:00:00 **TO** 16:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
2420-5089-016-I-01	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Opened***
2420-5089-016-I-02	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Closed***
2420-5089-016-I-05	EV	2.0	6:35	2.0	2.0	15:24	529	1058	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **05**. Corridor Front Of Classroom-191 door area.
2420-5089-016-I-06	EV	2.0	6:38	2.0	2.0	15:26	528	1056	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **06**. Corridor Front Of Classroom-131 door area.
2420-5089-016-I-14	EV	2.0	6:20	2.0	2.0	15:37	557	1114	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **06**. Corridor Front Of Classroom-112 door area.
2420-5089-016-I-15	EV	2.0	6:20	2.0	2.0	15:37	557	1114	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **04**. Front of Main Lobby 101 location
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***					

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 05, 2020
ON SITE FROM:	11:30 TO 16.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	6 MILEAGE 60	Air Samples I.D.	252020-100.5089.016-J

Scope of Work

Quick Glance: Physical Education Building abatement Project.
ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations
Project location: Containmenmt-**5** = Classrooms & attached Corridor Main Lobby location. **(Preparation)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768 BALTIMORE AVE, BELTSVILLE, MD 20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

11:30	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Tidewater Inc Walter (240-310-6633), Barco-Abatement Crew Supervisor (Wendy) Gustavo Morales (703-870-0125 / 571-275-6944) and discussed project work scope details. Continued final cleaning HEPA vacuum process and containment setup preparation.
13:00	Communicated with Tidewater Inc (CIH) Project Manager Skanda and discussed project work scope details and activities progress and schedules details.
14:00	Continued Project activities. discussed activities progress details with Tidewater Inc Walter (240-310-6633). Barco abatement crews continued abatement and continued containment setup preparation, walked throughout project location no problems observed. Decon area clean adequate of worker protection disposable material on site.
16.30	Industrial Hygiene Consultant Accreditation: • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-19002271) (Exp-date: Jan-2021) • Supervisor (State of Maryland I.D-19002651) (Exp-date: Jan-2021)
	Procedures should be follow-up when containment teardown cleanup process • All ploys must remove from the facility structures and bagged as asbestos waste. • All equipment tools, materials, supplies and waste must remove. • Spray glue and or tape residue adequately clean from facility structures. • Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum) • Keep air Negative units (if Possible) until final teardown completion.
	Removed ACM-Quantity and description by (EACH) location & Containments. **(Abatement completed project locations)** 1. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **a.** Ceiling Tiles with (Red Backing) **None** **b.** Mudded joint & Elbows **37** **c.** Mastic (RM-119 /Storage area) **500^{SFT}** **d.** 9" x "9" Floor Tile & Mastic (RM-119 /Storage area) **60^{SFT}** 2. Containmenmt-**1**-**B** = 115-Womens-Toilet. **e.** Ceiling Tiles with (Red Backing) **None** **f.** Mudded joint & Elbows **None** 3. Containmenmt-**2** = 147-Storage & Corridor.

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

	g. Ceiling Tiles with (Red Backing)	15
	h. Mudded joint & Elbows	None
	4. Containmenmt-3 = 140-Weight Room & attached Corridor.	
	i. Ceiling Tiles with (Red Backing)	None
	j. Suspected Dust & Debris	Lot / Full Cleaning HEPA vacuumed.

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 06, 2020
ON SITE FROM:	6.00 TO 16.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	10 MILEAGE 60	Air Samples I.D.	262020-100.5089.016-K

Scope of Work

Quick Glance: Physical Education Building abatement Project.

ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location:

Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) **(Preparation)**

Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **(Preparation)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768, Baltimore Ave, Beltsville, MD-20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Tidewater Inc (IH) Walter (240-310-6633), Barco-Abatement Crew Supervisor and discussed project work scope details. Continued containment setup preparation 1st floor rest of the Project location. Barco abatement crew continued containment setup preparation, met with crew supervisor Ron (443-974-2943) and discussed activities progress details. Setup environmental air sampling pumps 1st floor selected corridor Project location flow rate measured with a Rotameter at the start of the air sampling process.
7:00	Communicated with Tidewater Inc (CIH) Project Manager Skanda and discussed project work scope details and activities progress and schedules details.
8:00	Continued containment setup preparation 1st floor rest of the Project location, walked throughout project location with Barco on site supervisor Ron and discussed activities progress details.
9.00	Met with Tidewater Inc, (CIH) & Project Manager Skanda (443-983-0362), and discussed MCPE project activities and progress schedules details, walked throughout project areas 1st and 2nd floor to identified the fire door at this point able to count some of the fire doors, due to ongoing abatement activities and containment setup preparation critical are covering most of the doors, ones the abatement completed it best advice to count the fire doors quantification. Observed crew Continued Project activities. 1st floor and 2nd floor project locations, including abatement and containment setup preparation process.
10:00	Continued Project activities. 1st floor and 2nd floor project locations, including abatement and containment setup preparation process.
11.00	Barco abatement crews left for lunch break.
12:00	Met with Barco on site crew supervisor Ron and discussed activities progress details, according to Ron the work areas on 1st floor divided to two containment. First one covering locations including Lobby-101, corridor 191 and rest of the classroom and restrooms (102, 131, 107, 112, 114 & 191 corridor)
13.00	Met with Tidewater Inc (CIH) Project Manager Skanda and discussed project work scope details and activities progress and schedules details. Met with Barco Superintended Bread and Gustavo Morales (571-275-6944) and discussed project work scope details and abatement mudded elbow joint details. (according to Barco superintendent abatement of Mudded Joint and elbows limited to damage joint only if any thin in good condition remaining to be there as it is. Continued Project activities. Walked throughout project location, adequate worker protection disposable material on site, crew continued activities designated work project location, NO problem observed.

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

14:00	Continued Project activities. discussed activities progress details with supervisor, Continued Project activities. 1st floor and 2nd floor project locations, including abatement and containment setup preparation process. walked throughout project location no problems observed. Decon areas clean adequate of worker protection disposable material on site. Met with MC-Campus Environmental Safety Officer (POC) & Michael Rocke (240-753-2526) and Barco-Abatement Crew Supervisor (Ron) and discussed project work scope details, including rest of the pending project location work scope details.
15.00	Continued Project activities. 1st floor and 2nd floor project locations, including abatement and containment setup preparation process.
16.00	Continued Project activities. 1st floor and 2nd floor project locations, including abatement and containment setup preparation process.
15.00	Collected air sampling pumps from 1st floor selected corridor Project location flow rate measured with a Rotameter at the end of the air sampling process Analysis PCM air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
16.30	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
	Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. Industrial Hygiene Consultant Accreditation: • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-19002271) (Exp-date: Jan-2021) • Supervisor (State of Maryland I.D-19002651) (Exp-date: Jan-2021)
	Procedures should be follow-up when containment teardown cleanup process • All ploys must remove from the facility structures and bagged as asbestos waste. • All equipment tools, materials, supplies and waste must remove. • Spray glue and or tape residue adequately clean from facility structures. • Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum) • Keep air Negative units (if Possible) until final teardown completion.
	Removed ACM-Quantity and description by (EACH) location & Containments. **(Abatement completed project locations)** 1. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **a.** Ceiling Tiles with (Red Backing) — **None** **b.** Mudded joint & Elbows — **37** **c.** Mastic (RM-119 /Storage area) — **500SFT** **d.** 9" x "9" Floor Tile & Mastic (RM-119 /Storage area) — **60SFT** 2. Containmenmt-**1**-**B** = 115-Womens-Toilet. **e.** Ceiling Tiles with (Red Backing) — **None** **f.** Mudded joint & Elbows — **None** 3. Containmenmt-**2** = 147-Storage & Corridor. **g.** Ceiling Tiles with (Red Backing) — **15** **h.** Mudded joint & Elbows — None 4. Containmenmt-**3** = 140-Weight Room & attached Corridor. **i.** Ceiling Tiles with (Red Backing) — **None** **j.** Suspected Dust & Debris — **Lot (140A-Mech-Room)**

Reviewed by: _____

TIDEWATER INC

PCM & TEM AIR SAMPLE DATA SHEET

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **February 6, 2020** **On-Site** 6:00:00 **TO** 16:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
2620-5089-016-K-01	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Opened***
2620-5089-016-K-02	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Closed***
2620-5089-016-K-05	EV	2.0	6:35	2.0	2.0	15:10	515	1030	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **05**. Front of Elevator Lobby-101, Main-Entry door area.
2620-5089-016-K-06	EV	2.0	6:38	2.0	2.0	15:10	512	1024	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **06**. Front of Elevator Lobby Main-Entry door area.
2620-5089-016-K-14	EV	3.5	6:20	3.5	3.5	15:10	530	1855	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **06**. Corridor Classroom-191 area.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***					

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 07, 2020
ON SITE FROM:	6.00 TO 16.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	10 MILEAGE 60	Air Samples I.D.	272020-100.5089.016-L

Scope of Work

Quick Glance: Physical Education Building abatement Project.

ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location:

Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) **(Preparation)**

Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **(Preparation)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768, Baltimore Ave, Beltsville, MD-20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Tidewater Inc (IH) Walter (240-310-6633), Barco-Abatement Crew Supervisor and discussed project work scope details. Continued abatement and containment setup preparation rest of the Project location. Barco abatement crew continued containment setup preparation, met with crew supervisor Ron (443-974-2943) and discussed activities progress details. Setup environmental air sampling pumps 1st floor selected corridor Project location flow rate measured with a Rotameter at the start of the air sampling process.
7:00	Continued abatement and containment setup preparation rest of the Project location, walked throughout project location, adequate worker protection disposable materials on site. Met with MC-Campus Environmental Safety Officer (POC) & Michael Rocke (240-753-2526), Tidewater Inc (IH) Walter (240-310-6633) and Barco-Abatement Crew Supervisor Gustavo, Wendy, walked throughout project location and discussed Dance Studio 217 air handler shut of request details and rest of the project work scope details, including rest of the pending project location work scope details.
8:00	Continued containment setup preparation 1st floor Project location, walked throughout project location no problem observed.
9.00	Observed crew Continued Project activities. 1st floor and 2nd floor project locations, including abatement and containment setup preparation process. Abatement Crew Supervisor Wendy Morales (703-870-0125), Gustavo Morales (571-275-6944) and discussed 1st floor project location removed waste quantity details. Communicated with Tidewater Inc (CIH) Project Manager Skanda and discussed Pool 141 location Office facility areas air sampling project details with Tidewater Inc (IH) Walter (240-310-6633). • Setup High volume PCM air clearances air samples pumps on pool and pool office project areas pumps flow rate measured with a Rotameter at the start (10.0(LPM)). See attached PCM sample data sheet for locations.
10:00	Continued Project activities. 1st floor and 2nd floor project locations, including abatement and containment setup preparation process.
11.00	Barco abatement crews left for lunch break.
12:00	• Setup High volume PCM air clearances air samples pumps on pool and pool office project areas pumps flow rate measured with a Rotameter at the end of the sampling process. Analysis PCM air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy. Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value.

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

13.00	Continued Project activities. Walked throughout project location, adequate worker protection disposable material on site, crew continued activities designated work project location, NO problem observed.
14:45	walked throughout project location with Crew Supervisor Wendy Morales and Tidewater Inc (IH) Walter and discussed project activities schedules details. Continued Project activities. discussed activities progress details with supervisor. • Collected PCM air samples & pumps from 1st floor project areas pumps flow rate measured with a Rotameter at the end of the sampling process. See attached PCM sample data sheet for locations. Analysis PCM air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
15.00	Continued Project activities. 1st floor and 2nd floor project locations, including abatement and containment setup preparation process.
16.00	Continued Project activities. 1st floor and 2nd floor project locations, including abatement and containment setup preparation process.
16.30	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
	Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. Industrial Hygiene Consultant Accreditation: • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-2000002691) (Exp-date: Feb-2021)
	Procedures should be follow-up when containment teardown cleanup process • All ploys must remove from the facility structures and bagged as asbestos waste. • All equipment tools, materials, supplies and waste must remove. • Spray glue and or tape residue adequately clean from facility structures. • Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum) • Keep air Negative units (if Possible) until final teardown completion.
	Removed ACM-Quantity and description by (EACH) location & Containments. **(Abatement completed project locations)** 1. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **a.** Ceiling Tiles with (Red Backing) — **None** **b.** Mudded joint & Elbows — **37** **c.** Mastic (RM-119 /Storage area) — **500SFT** **d.** 9" x "9" Floor Tile & Mastic (RM-119 /Storage area) — **60SFT** 2. Containmenmt-**1**-**B** = 115-Womens-Toilet. **e.** Ceiling Tiles with (Red Backing) — **None** **f.** Mudded joint & Elbows — **None** 3. Containmenmt-**2** = 147-Storage & Corridor. **g.** Ceiling Tiles with (Red Backing) — **15** **h.** Mudded joint & Elbows — None 4. Containmenmt-**3** = 140-Weight Room & attached Corridor. **i.** Ceiling Tiles with (Red Backing) — **None** **j.** Suspected Dust & Debris — **Lot (140A-Mech-Room)** Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **(400)** waste bags including teardown cleaning waste. Containmenmt-**1**-**B** = 115-Womens-Toilet. **(75)** waste bags including teardown cleaning waste Containmenmt-**2** = 147-Storage & Corridor. **(100)** waste bags including teardown cleaning waste Containmenmt-**3** = 140-Weight Room. **(400)** waste bags including teardown cleaning waste

Reviewed by: _____

TIDEWATER INC

PCM & TEM AIR SAMPLE DATA SHEET

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **February 7, 2020** **On-Site** 6:00:00 **TO** 16:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
2720-5089-016-L-06	FB									100	0	0.00	**0.00**	**Filed Blank** **Opened**
2720-5089-016-L-07	FB									100	0	0.00	**0.00**	**Filed Blank** **Closed**
2720-5089-016-L-08	FC	10.0	9:57	9.9	10.0	12:05	128	1274	0	100	0	0.00	**0.00**	☐ FC / Clearances ☐ • **08**. Pool Front of Main-Entry Front desk area.
2720-5089-016-L-09	FC	10.0	9:57	10.0	10.0	12:05	128	1280	1	100	0	1.27	**0.00**	☐ FC / Clearances ☐ • **09**. Pool Office-142 Front of Main-desk area.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***						

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	EV = Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	WA= Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB** = Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC

PCM & TEM AIR SAMPLE DATA SHEET

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **February 7, 2020** **On-Site** 6:00:00 **TO** 16:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
2720-5089-016-L-01	FB									100	0	0.00	**0.00**	**Filed Blank** **Opened**
2720-5089-016-L-02	FB									100	0	0.00	**0.00**	**Filed Blank** **Closed**
2720-5089-016-L-03	EV	2.5	6:48	2.2	2.4	14:48	480	1128	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **06**. Front of Elevator Lobby Main-Entry door area.
2720-5089-016-L-04	EV	2.5	6:48	2.2	2.4	14:48	480	1128	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **04**. Corridor 191, front of Classroom-112 door area.
2720-5089-016-L-05	EV	2.5	6:48	2.2	2.4	14:48	480	1128	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **05**. Front of Elevator Lobby-101, Main-Entry door area.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***						

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 08, 2020
ON SITE FROM:	6.00 TO 14.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	08 MILEAGE 60	Air Samples I.D.	282020-100.5089.016-M

Scope of Work

Quick Glance: Physical Education Building abatement Project.

ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location:

Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) **(Preparation)**

Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **(Preparation)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768, Baltimore Ave, Beltsville, MD-20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Tidewater Inc (IH) Walter (240-310-6633), Barco-Abatement Crew Supervisor (Wendy) Gustavo Morales (703-870-0125), Gustavo Morales (571-275-6944) and discussed 1st floor project location removed waste quantity details. Barco abatement crew continued containment setup preparation, met with crew supervisor Ron (443-974-2943) and discussed activities progress details. Setup environmental air sampling pumps 1st floor selected corridor Project location flow rate measured with a Rotameter at the start of the air sampling process.
7:00	Continued abatement and containment setup preparation rest of the Project location, walked throughout project location, adequate worker protection disposable materials on site.
8:00	Continued containment setup preparation 1st floor Project location, walked throughout project location no problem observed.
9.00	Observed crew Continued Project activities. 1st floor and 2nd floor project locations, including abatement and containment setup preparation process.
10:00	Continued Project activities. 1st floor and 2nd floor project locations, including abatement and containment setup preparation process.
11.00	Barco abatement crews left for lunch break.
13:00	Continued Project activities. Walked throughout project location, adequate worker protection disposable material on site, crew continued activities designated work project location; NO problem observed. Collected PCM air samples & pumps from 1st floor project areas pumps flow rate measured with a Rotameter at the end of the sampling process. See attached PCM sample data sheet for locations. Analysis PCM air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
14.30	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar.
Industrial Hygiene Consultant Accreditation:

- American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172.
- Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049.
- Inspector (State of Maryland I.D-2000002691) (Exp-date: Feb-2021)

Procedures should be follow-up when containment teardown cleanup process

- All ploys must remove from the facility structures and bagged as asbestos waste.
- All equipment tools, materials, supplies and waste must remove.
- Spray glue and or tape residue adequately clean from facility structures.
- Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum)
- Keep air Negative units (if Possible) until final teardown completion.

Removed ACM-Quantity and description by (EACH) location & Containments.
(Abatement completed project locations)

1. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage.
   - **a.** Ceiling Tiles with (Red Backing) — **None**
   - **b.** Mudded joint & Elbows — **37**
   - **c.** Mastic (RM-119 /Storage area) — **500^{SFT}**
   - **d.** 9" x "9" Floor Tile & Mastic (RM-119 /Storage area) — **60^{SFT}**

2. Containmenmt-**1**-**B** = 115-Womens-Toilet.
   - **e.** Ceiling Tiles with (Red Backing) — **None**
   - **f.** Mudded joint & Elbows — **None**

3. Containmenmt-**2** = 147-Storage & Corridor.
   - **g.** Ceiling Tiles with (Red Backing) — **15**
   - **h.** Mudded joint & Elbows — None

4. Containmenmt-**3** = 140-Weight Room & attached Corridor.
   - **i.** Ceiling Tiles with (Red Backing) — **None**
   - **j.** Suspected Dust & Debris — **Lot (140A-Mech-Room)**

Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage.
(400) waste bags including teardown cleaning waste.
Containmenmt-**1**-**B** = 115-Womens-Toilet.
(75) waste bags including teardown cleaning waste
Containmenmt-**2** = 147-Storage & Corridor.
(100) waste bags including teardown cleaning waste
Containmenmt-**3** = 140-Weight Room.
(400) waste bags including teardown cleaning waste

Reviewed by: _____

TIDEWATER INC

PCM & TEM AIR SAMPLE DATA SHEET

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **February 8, 2020** **On-Site** 6:00:00 **TO** 14:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
2820-5089-016-M-01	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Opened***
2820-5089-016-M-02	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Closed***
2820-5089-016-M-03	EV	2.0	6:43	2.0	2.0	13:16	393	786	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **05**. Front of Elevator Lobby-101, Main-Entry door area.
2820-5089-016-M-04	EV	2.0	6:43	2.0	2.0	13:16	393	786	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **06**. Front of Elevator Lobby Main-Entry door area.
2820-5089-016-M-14	EV	3.5	6:43	3.5	3.5	13:16	393	1376	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **06**. Corridor Front of Classroom-112 area.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***					

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

	(Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
	Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. TEM air samples delivered to EMSL Analytical Inc. 10768 BALTIMORE AVE, BELTSVILLE, MD 20705. Industrial Hygiene Consultant Accreditation: • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-19002271) (Exp-date: Jan-2021) • Supervisor (State of Maryland I.D-19002651) (Exp-date: Jan-2021)
	Procedures should be follow-up when containment teardown cleanup process • All ploys must remove from the facility structures and bagged as asbestos waste. • All equipment tools, materials, supplies and waste must remove. • Spray glue and or tape residue adequately clean from facility structures. • Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum) • Keep air Negative units (if Possible) until final teardown completion.

Reviewed by: _____

TIDEWATER INC

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

PCM & TEM AIR SAMPLE DATA SHEET

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **February 9, 2020** **On-Site** 6:00:00 **TO** 14:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
2920-5089-016-N-01	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Opened***
2920-5089-016-N-02	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Closed***
2920-5089-016-N-03	WA	2.0	6:39	1.9	2.0	13:13	394	768	23.5	100	0	29.94	**0.01**	☐ Work-Area ☐ • **03**. Inside Containmenmt-5 (attached RMs & Corridor).
2920-5089-016-N-04	EV	2.0	6:46	2.0	2.0	13:16	390	780	1.5	100	0	1.91	**0.00**	☐ Environmental ☐ • **04**. Front of Deco Containmenmt-5 Project location
2920-5089-016-N-05	EV	2.0	6:46	1.8	1.9	13:16	390	741	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **05**. Front of Classroom 116, Main Lobby location.
2920-5089-016-N-06	EV	4.0	9:19	4.0	4.0	11:10	111	444	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **06**. Under Glove bag Project areas storage-119 Gymnasium.
2920-5089-016-N-07	EV	4.0	9:20	4.0	4.0	11:11	111	444	0.5	100	0	0.64	**0.00**	☐ Environmental ☐ • **07**. Under Glove bag Project areas storage-119 Gymnasium.
2920-5089-016-N-08	EV	4.0	9:20	4.0	4.0	11:12	112	448	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **08**. Glove bag Project areas storage-119 Gymnasium.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***						

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**

NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 09, 2020
ON SITE FROM:	6.00 TO 14.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	08 MILEAGE 60	Air Samples I.D.	292020-100.5089.016-N

Scope of Work

Quick Glance: Physical Education Building abatement Project.
ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location:

Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) **(Prep/Activation)**
Glove Bags abatement (Glove bag Project areas storage-119 Gymnasium)
Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **(Preparation)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768, Baltimore Ave, Beltsville, MD-20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Tidewater Inc (IH) Walter (240-310-6633), Barco-Abatement Crew Supervisor, Ron (443-974-2943), Gustavo Morales (571-275-6944) and discussed abatement project work scope schedules details. Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) **Preparation completed and is ready for pre abatement visual inspection.** • Containmenmt-**5**, 1st Pre abatement inspection failed required minor areas sealed. • Conducted 2nd Pre abatement visual inspection of the work areas with and is acceptable abatement, critical containment barriers are secure and sound, required work practices and engineering control tools on site including air less spry and HEPA vacuum, Air negative units operating at and optimum flow rate. Setup work areas air sampling pumps flow rate measured with a Rotameter at the start of the sampling, three stage Decontamination facility areas clean with line supply water, authorized abatement. Setup Environmental air sampling pumps selected project locations (randomly), flow rate measured with a Rotameter at the start of the sampling. See attached PCM sample data sheet for location and flow rates and the end volume.
7:00	Abatement crew proceed to work area followed by proper PPE with ½ face respirators. Decon area clean, walked throughout project location, adequate worker protection disposable materials on site. Met with crew supervisor and discussed project work scope details, continued abatement containment-5 project location, and Glove bag setup preparation storage-119 Gymnasium project location.
8:00	Continued abatement containment 5, 1st floor Project location, walked throughout project location no problem observed.
9.00	Crew Continued Project activities. 1st floor Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors project location, Gove bag setup preparation completed storage-119 Gymnasium project location. Conducted pre abatement visual inspection, including smoke test, and is acceptable for glove bag abatement, authorized removal, setup air sampling pump setup on glove bag project location. See attached PCM sample data sheet for location and flow rates and the end volume.
10:00	Continued Project activities. 1st floor and 191 Corridors project location, decon area clean negative pressure greater than (0,020 adequate worker protection disposable material on site. Met with MC-Campus Environmental Safety Manager (POC) Sharmila Pradhan and discussed project schedules and work scope details.
11.00	Barco abatement crews left for lunch break. Crew supervisor inform 191 Corridors project location, Gove bag abatement completed, conducted post abatement visual inspection, found no visible dust or waste with the scope of work areas, collected air samples Analysis PCM air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

13:00	Continued Project activities. Walked throughout project location, adequate worker protection disposable material on site, crew continued activities designated work project location; NO problem observed. Inspected and collected air samples from Containment-. Collected PCM air samples & pumps from 1st floor project areas pumps flow rate measured with a Rotameter at the end of the sampling process. See attached PCM sample data sheet for locations. Analysis PCM air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
14.30	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
	Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. Industrial Hygiene Consultant Accreditation: • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-2000002691) (Exp-date: Feb-2021)
	Procedures should be follow-up when containment teardown cleanup process • All ploys must remove from the facility structures and bagged as asbestos waste. • All equipment tools, materials, supplies and waste must remove. • Spray glue and or tape residue adequately clean from facility structures. • Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum) • Keep air Negative units (if Possible) until final teardown completion.
	Removed ACM-Quantity and description by (EACH) location & Containments. **(Abatement completed project locations)** 1. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **a.** Ceiling Tiles with (Red Backing) — **None** **b.** Mudded joint & Elbows — **37** **c.** Mastic (RM-119 /Storage area) — **500SFT** **d.** 9" x "9" Floor Tile & Mastic (RM-119 /Storage area) — **60SFT** 2. Containmenmt-**1**-**B** = 115-Womens-Toilet. **e.** Ceiling Tiles with (Red Backing) — **None** **f.** Mudded joint & Elbows — **None** 3. Containmenmt-**2** = 147-Storage & Corridor. **g.** Ceiling Tiles with (Red Backing) — **15** **h.** Mudded joint & Elbows — None 4. Containmenmt-**3** = 140-Weight Room & attached Corridor. **i.** Ceiling Tiles with (Red Backing) — **None** **j.** Suspected Dust & Debris — **Lot** (**140A-Mech-Room)** 5. Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) **k.** Ceiling Tiles with (Red Backing) — **None** **l.** Mudded joint & Elbows — **11 (Removed only the Damage Mudded joint or Elbow)** 6. Glove Bags abatement (Glove bag Project areas storage-119 Gymnasium) **m.** Mudded joint & Elbows — **04** **Waste Bags Quantity** Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **(400)** waste bags including teardown cleaning waste. Containmenmt-**1**-**B** = 115-Womens-Toilet. **(75)** waste bags including teardown cleaning waste Containmenmt-**2** = 147-Storage & Corridor. **(100)** waste bags including teardown cleaning waste

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

	Containmenmt-3 = 140-Weight Room. **(400)** waste bags including teardown cleaning waste

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 09, 2020
ON SITE FROM:	6.00 TO 14.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	08 MILEAGE 60	Air Samples I.D.	292020-100.5089.016-N

Scope of Work

Quick Glance: Physical Education Building abatement Project.

ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location:

Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) **(Prep/Activation)**

Glove Bags abatement (Glove bag Project areas storage-119 Gymnasium)

Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **(Preparation)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768, Baltimore Ave, Beltsville, MD-20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Tidewater Inc (IH) Walter (240-310-6633), Barco-Abatement Crew Supervisor, Ron (443-974-2943), Gustavo Morales (571-275-6944) and discussed abatement project work scope schedules details. Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) **Preparation completed and is ready for pre abatement visual inspection.** • Containmenmt-**5**, 1st Pre abatement inspection failed required minor areas sealed. • Conducted 2nd Pre abatement visual inspection of the work areas with and is acceptable abatement, critical containment barriers are secure and sound, required work practices and engineering control tools on site including air less spry and HEPA vacuum, Air negative units operating at and optimum flow rate. Setup work areas air sampling pumps flow rate measured with a Rotameter at the start of the sampling, three stage Decontamination facility areas clean with line supply water, authorized abatement. Setup Environmental air sampling pumps selected project locations (randomly), flow rate measured with a Rotameter at the start of the sampling. See attached PCM sample data sheet for location and flow rates and the end volume.
7:00	Abatement crew proceed to work area followed by proper PPE with ½ face respirators. Decon area clean, walked throughout project location, adequate worker protection disposable materials on site. Met with crew supervisor and discussed project work scope details, continued abatement containment-5 project location, and Glove bag setup preparation storage-119 Gymnasium project location.
8:00	Continued abatement containment 5, 1st floor Project location, walked throughout project location no problem observed.
9.00	Crew Continued Project activities. 1st floor Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors project location, Gove bag setup preparation completed storage-119 Gymnasium project location. Conducted pre abatement visual inspection, including smoke test, and is acceptable for glove bag abatement, authorized removal, setup air sampling pump setup on glove bag project location. See attached PCM sample data sheet for location and flow rates and the end volume.
10:00	Continued Project activities. 1st floor and 191 Corridors project location, decon area clean negative pressure greater than (0,020 adequate worker protection disposable material on site. Met with MC-Campus Environmental Safety Manager (POC) Sharmila Pradhan and discussed project schedules and work scope details.
11.00	Barco abatement crews left for lunch break. Crew supervisor inform 191 Corridors project location, Gove bag abatement completed, conducted post abatement visual inspection, found no visible dust or waste with the scope of work areas, collected air samples Analysis PCM air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

13:00	Continued Project activities. Walked throughout project location, adequate worker protection disposable material on site, crew continued activities designated work project location; NO problem observed. Inspected and collected air samples from Containment-. Collected PCM air samples & pumps from 1st floor project areas pumps flow rate measured with a Rotameter at the end of the sampling process. See attached PCM sample data sheet for locations. Analysis PCM air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
14.30	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
	Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. Industrial Hygiene Consultant Accreditation: • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-2000002691) (Exp-date: Feb-2021)
	Procedures should be follow-up when containment teardown cleanup process • All ploys must remove from the facility structures and bagged as asbestos waste. • All equipment tools, materials, supplies and waste must remove. • Spray glue and or tape residue adequately clean from facility structures. • Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum) • Keep air Negative units (if Possible) until final teardown completion.
	Removed ACM-Quantity and description by (EACH) location & Containments. **(Abatement completed project locations)** 1. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **a.** Ceiling Tiles with (Red Backing) — **None** **b.** Mudded joint & Elbows — **37** **c.** Mastic (RM-119 /Storage area) — **500SFT** **d.** 9" x "9" Floor Tile & Mastic (RM-119 /Storage area) — **60SFT** 2. Containmenmt-**1**-**B** = 115-Womens-Toilet. **e.** Ceiling Tiles with (Red Backing) — **None** **f.** Mudded joint & Elbows — **None** 3. Containmenmt-**2** = 147-Storage & Corridor. **g.** Ceiling Tiles with (Red Backing) — **15** **h.** Mudded joint & Elbows — None 4. Containmenmt-**3** = 140-Weight Room & attached Corridor. **i.** Ceiling Tiles with (Red Backing) — **None** **j.** Suspected Dust & Debris — **Lot (140A-Mech-Room)** 5. Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) **k.** Ceiling Tiles with (Red Backing) — **None** **l.** Mudded joint & Elbows — **11 (Removed only the Damage Mudded joint or Elbow)** 6. Glove Bags abatement (Glove bag Project areas storage-119 Gymnasium) **m.** Mudded joint & Elbows — **04** **Waste Bags Quantity** Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **(400)** waste bags including teardown cleaning waste. Containmenmt-**1**-**B** = 115-Womens-Toilet. **(75)** waste bags including teardown cleaning waste Containmenmt-**2** = 147-Storage & Corridor. **(100)** waste bags including teardown cleaning waste

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

	Containmenmt-**3** = 140-Weight Room. **(400)** waste bags including teardown cleaning waste

TIDEWATER INC

PCM & TEM AIR SAMPLE DATA SHEET

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **February 9, 2020** **On-Site** 6:00:00 **TO** 14:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
2920-5089-016-N-01	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Opened***
2920-5089-016-N-02	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Closed***
2920-5089-016-N-03	**WA**	2.0	6:39	1.9	2.0	13:13	394	768	23.5	100	0	29.94	**0.01**	☐ **Work-Area** ☐ • **03**. Inside Containmenmt-5 (attached RMs & Corridor).
2920-5089-016-N-04	EV	2.0	6:46	2.0	2.0	13:16	390	780	1.5	100	0	1.91	**0.00**	☐ Environmental ☐ • **04**. Front of Deco Containmenmt-5 Project location
2920-5089-016-N-05	EV	2.0	6:46	1.8	1.9	13:16	390	741	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **05**. Front of Classroom 116, Main Lobby location.
2920-5089-016-N-06	EV	4.0	9:19	4.0	4.0	11:10	111	444	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **06**. Under Glove bag Project areas storage-119 Gymnasium.
2920-5089-016-N-07	EV	4.0	9:20	4.0	4.0	11:11	111	444	0.5	100	0	0.64	**0.00**	☐ Environmental ☐ • **07**. Under Glove bag Project areas storage-119 Gymnasium.
2920-5089-016-N-08	EV	4.0	9:20	4.0	4.0	11:12	112	448	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **08**. Glove bag Project areas storage-119 Gymnasium.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***				

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**

NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

PCM & TEM AIR SAMPLE DATA SHEET

TIDEWATER INC

6625 Selnick Drive. , Suite A, Elkridge, MD 21075
Tell: (410) 540-8700
Fax: (410) 579-1685

Project : **MCM-Physical Education Building-Abatement**
Job – No : **100.5089.016**
Name : **Asoka Kahawita / Oscar**

Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Time & Date **February 10, 2020** **On-Site** 6:00:00 **TO** 16:30:00
Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location	
21020-5089-016-O-01	FB									100	0	0.00	**0.00**	***Filed Blank***	***Opened***
21020-5089-016-O-02	FB									100	0	0.00	**0.00**	***Filed Blank***	***Closed***
21020-5089-016-O-03	**WA**	3.0	6:15	3.0	3.0	13:10	415	1245	19.5	100	0	24.84	**0.01**	☐ Work-Area	☐ • **03**. Inside Containmenmt-5 project corridor 119 area
21020-5089-016-O-04	EV	3.0	6:28	3.0	3.0	13:14	406	1218	1.5	100	0	1.91	**0.00**	☐ Environmental	☐ • **04**. Front of Deco Containmenmt-5 lobby area
21020-5089-016-O-05	EV	2.0	6:15	2.0	2.0	13:10	415	830	0	100	0	0.00	**0.00**	☐ Environmental	☐ • **05**. Front of Elevator Lobby-classroom-116 door area.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***						

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV** = Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**

NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 10, 2020
ON SITE FROM:	6.00 TO 16.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	10 MILEAGE 60	Air Samples I.D.	2102020-100.5089.016-O

Scope of Work

Quick Glance: Physical Education Building abatement Project.
ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations
Project location:
Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) **(Active)**
Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **(Preparation)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768, Baltimore Ave, Beltsville, MD-20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Tidewater Inc (IH) Walter (240-310-6633), Barco-Abatement Crew Supervisor Gustavo Morales (571-275-6944), Ron (443-974-2943) and discussed abatement project work scope schedules details. • Inspected (Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) work areas critical containment barriers are secured and sound required work practices and engineering control tools on site including air less spry and HEPA vacuum Air negative units operating at and optimum flow rate. Decontamination facility areas clean. • Abatement crew continued activities using proper PPE with ½ face respirators See attached PCM sample data sheet for location and flow rates and the sampling time schedules with full details. Setup environmental air sampling pumps 1st floor selected corridor Project location flow rate measured with a Rotameter at the start of the air sampling process. Note: Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors found approximately 37 mudded and or elbow joint out of 37 mudded joint 26 for removal and 11 remain to be there.
7:00	Continued abatement process 1st floor containment-5, Project location, walked throughout project location, adequate worker protection disposable materials on site.
8:00	Continued Project activities. Communicated with MC-Campus Environmental Safety Officer (POC) & Michael Rocke (240-753-2526), & Tidewater Inc (CIH) Skanda (443-983-0362) and discussed project activities work scope details. Met with Barco-Abatement Crew Supervisor Gustavo Morales (571-275-6944), and discussed Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors
9.00	Met with MC-Campus Environmental Safety Officer (POC) & Michael Rocke (240-753-2526), & TWI (CIH) Skanda (443-983-0362) and discussed project activities work scope details. Discussed project activities details MC-Officer Riched White (240-4525) walked throughout Lead abatement project location with TWI/CIH and discussed bulk sampling and lead bass paid chip sampling details. met with Barco-Abatement Crew Supervisor Gustavo Morales (571-275-6944) and discussed activities and critical barriers setup details with Riched.
10:00	Continued Project activities. Walked throughout project location, containment-5 decon area clean, adequate worker protection disposable material on site, no problem observed.
11.00	Barco abatement crews left for lunch break. Met with MC-Campus Environmental Safety Manager (POC) Sharmila (301-651-0393), and Barco-Abatement Crew Supervisor Gustavo Morales and discussed project activities work scope and critical details.

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

13:00	Continued Project activities. Walked throughout project location, adequate worker protection disposable material on site, crew continued activities designated work project location.
14:00	Continued Project activities. Walked throughout project location, adequate worker protection disposable material on site, crew continued activities designated work project location.
15:00	Collected PCM air samples & pumps from 1st floor project areas pumps flow rate measured with a Rotameter at the end of the sampling process. See attached PCM sample data sheet for locations. Analysis PCM air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
16.30	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
	Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. Industrial Hygiene Consultant Accreditation: • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-2000002691) (Exp-date: Feb-2021)
	Procedures should be follow-up when containment teardown cleanup process • All ploys must remove from the facility structures and bagged as asbestos waste. • All equipment tools, materials, supplies and waste must remove. • Spray glue and or tape residue adequately clean from facility structures. • Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum) • Keep air Negative units (if Possible) until final teardown completion.
	Removed ACM-Quantity and description by (EACH) location & Containments. **(Abatement completed project locations)** 1. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **a.** Ceiling Tiles with (Red Backing) — **None** **b.** Mudded joint & Elbows — **37** **c.** Mastic (RM-119 /Storage area) — **500SFT** **d.** 9" x "9" Floor Tile & Mastic (RM-119 /Storage area) — **60SFT** 2. Containmenmt-**1**-**B** = 115-Womens-Toilet. **e.** Ceiling Tiles with (Red Backing) — **None** **f.** Mudded joint & Elbows — **None** 3. Containmenmt-**2** = 147-Storage & Corridor. **g.** Ceiling Tiles with (Red Backing) — **15** **h.** Mudded joint & Elbows — None 4. Containmenmt-**3** = 140-Weight Room & attached Corridor. **i.** Ceiling Tiles with (Red Backing) — **None** **j.** Suspected Dust & Debris — **Lot (140A-Mech-Room)** 5. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **k.** Ceiling Tiles with (Red Backing) — **None** **l.** Mudded joint & Elbows — **37 (26 Glove bag) 11 stay** **m.** 9" x "9" Floor Tile & Mastic (RM-112) Damage areas — **20SFT** Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **(400)** waste bags including teardown cleaning waste. Containmenmt-**1**-**B** = 115-Womens-Toilet. **(75)** waste bags including teardown cleaning waste Containmenmt-**2** = 147-Storage & Corridor. **(100)** waste bags including teardown cleaning waste Containmenmt-**3** = 140-Weight Room. **(400)** waste bags including teardown cleaning waste

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 10, 2020
ON SITE FROM:	6.00 TO 16.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	10 MILEAGE 60	Air Samples I.D.	2102020-100.5089.016-O

Scope of Work

Quick Glance: Physical Education Building abatement Project.

ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location:

Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) **(Active)**

Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **(Preparation)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768, Baltimore Ave, Beltsville, MD-20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Tidewater Inc (IH) Walter (240-310-6633), Barco-Abatement Crew Supervisor Gustavo Morales (571-275-6944), Ron (443-974-2943) and discussed abatement project work scope schedules details. • Inspected (Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) work areas critical containment barriers are secured and sound required work practices and engineering control tools on site including air less spry and HEPA vacuum Air negative units operating at and optimum flow rate. Decontamination facility areas clean. • Abatement crew continued activities using proper PPE with ½ face respirators See attached PCM sample data sheet for location and flow rates and the sampling time schedules with full details. Setup environmental air sampling pumps 1st floor selected corridor Project location flow rate measured with a Rotameter at the start of the air sampling process. Note: Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors found approximately 37 mudded and or elbow joint out of 37 mudded joint 26 for removal and 11 remain to be there.
7:00	Continued abatement process 1st floor containment-5, Project location, walked throughout project location, adequate worker protection disposable materials on site.
8:00	Continued Project activities. Communicated with MC-Campus Environmental Safety Officer (POC) & Michael Rocke (240-753-2526), & Tidewater Inc (CIH) Skanda (443-983-0362) and discussed project activities work scope details. Met with Barco-Abatement Crew Supervisor Gustavo Morales (571-275-6944), and discussed Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors
9.00	Met with MC-Campus Environmental Safety Officer (POC) & Michael Rocke (240-753-2526), & TWI (CIH) Skanda (443-983-0362) and discussed project activities work scope details. Discussed project activities details MC-Officer Riched White (240-4525) walked throughout Lead abatement project location with TWI/CIH and discussed bulk sampling and lead bass paid chip sampling details. met with Barco-Abatement Crew Supervisor Gustavo Morales (571-275-6944) and discussed activities and critical barriers setup details with Riched.
10:00	Continued Project activities. Walked throughout project location, containment-5 decon area clean, adequate worker protection disposable material on site, no problem observed.
11.00	Barco abatement crews left for lunch break. Met with MC-Campus Environmental Safety Manager (POC) Sharmila (301-651-0393), and Barco-Abatement Crew Supervisor Gustavo Morales and discussed project activities work scope and critical details.

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

13:00	Continued Project activities. Walked throughout project location, adequate worker protection disposable material on site, crew continued activities designated work project location.
14:00	Continued Project activities. Walked throughout project location, adequate worker protection disposable material on site, crew continued activities designated work project location.
15:00	Collected PCM air samples & pumps from 1st floor project areas pumps flow rate measured with a Rotameter at the end of the sampling process. See attached PCM sample data sheet for locations. Analysis PCM air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
16.30	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
	Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. Industrial Hygiene Consultant Accreditation: • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-2000002691) (Exp-date: Feb-2021)
	Procedures should be follow-up when containment teardown cleanup process • All ploys must remove from the facility structures and bagged as asbestos waste. • All equipment tools, materials, supplies and waste must remove. • Spray glue and or tape residue adequately clean from facility structures. • Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum) • Keep air Negative units (if Possible) until final teardown completion.
	Removed ACM-Quantity and description by (EACH) location & Containments. **(Abatement completed project locations)** 1. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **a.** Ceiling Tiles with (Red Backing) **None** **b.** Mudded joint & Elbows **37** **c.** Mastic (RM-119 /Storage area) **500SFT** **d.** 9" x "9" Floor Tile & Mastic (RM-119 /Storage area) **60SFT** 2. Containmenmt-**1**-**B** = 115-Womens-Toilet. **e.** Ceiling Tiles with (Red Backing) **None** **f.** Mudded joint & Elbows **None** 3. Containmenmt-**2** = 147-Storage & Corridor. **g.** Ceiling Tiles with (Red Backing) **15** **h.** Mudded joint & Elbows None 4. Containmenmt-**3** = 140-Weight Room & attached Corridor. **i.** Ceiling Tiles with (Red Backing) **None** **j.** Suspected Dust & Debris **Lot (140A-Mech-Room)** 5. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **k.** Ceiling Tiles with (Red Backing) **None** **l.** Mudded joint & Elbows **37 (26 Glove bag) 11 stay** **m.** 9" x "9" Floor Tile & Mastic (RM-112) Damage areas **20SFT** Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **(400)** waste bags including teardown cleaning waste. Containmenmt-**1**-**B** = 115-Womens-Toilet. **(75)** waste bags including teardown cleaning waste Containmenmt-**2** = 147-Storage & Corridor. **(100)** waste bags including teardown cleaning waste Containmenmt-**3** = 140-Weight Room. **(400)** waste bags including teardown cleaning waste

Reviewed by: _____

TIDEWATER INC

PCM & TEM AIR SAMPLE DATA SHEET

6625 Selnick Drive. , Suite A, Elkridge, MD 21075

Tell: (410) 540-8700
Fax: (410) 579-1685

Project : **MCM-Physical Education Building-Abatement**
Job – No : **100.5089.016**
Name : **Asoka Kahawita / Oscar**

Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Time & Date **February 10, 2020** **On-Site** 6:00:00 **TO** 16:30:00
Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location	
21020-5089-016-O-01	FB									100	0	0.00	**0.00**	***Filed Blank***	***Opened***
21020-5089-016-O-02	FB									100	0	0.00	**0.00**	***Filed Blank***	***Closed***
21020-5089-016-O-03	**WA**	3.0	6:15	3.0	3.0	13:10	415	1245	19.5	100	0	24.84	**0.01**	☐ **Work-Area**	☐ • **03**. Inside Containmenmt-5 project corridor 119 area
21020-5089-016-O-04	EV	3.0	6:28	3.0	3.0	13:14	406	1218	1.5	100	0	1.91	**0.00**	☐ Environmental	☐ • **04**. Front of Deco Containmenmt-5 lobby area
21020-5089-016-O-05	EV	2.0	6:15	2.0	2.0	13:10	415	830	0	100	0	0.00	**0.00**	☐ Environmental	☐ • **05**. Front of Elevator Lobby-classroom-116 door area.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***						

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV** = Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**

NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

EXHIBIT A

ASBESTOS PRE-ABATEMENT CHECKLIST

Building:	Physical Education bldg.	**Project**:	Montgomery College (Rockville) #5089-016
Location:	Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and	**Date**:	Feb-11-2020
Removal Contractor:	BARCO	**Time Inspected**:	06:15
Monitoring:	A. Kahawita / Oscar (Tidewater)	**Time Removal Began**:	06:30

Inspection Category	Activity to be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓ ✓ ✓	
2. Signage	a. Caution signs at vestibule entry	✓		**5. Work Habits in Work Area**	**d.** No smoking **e.** No eating/drinking	✓ ✓	
	b. OSHA ASBESTOS SIGN	✓					
	c. Dumpster, drums and bags labeled	✓					

FIELD NOTES: (Describe any problems encountered) None.

TIDEWATER INC

PCM & TEM AIR SAMPLE DATA SHEET

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

Project : **MCM-Physical Education Building-Abatement**
Job – No : **100.5089.016**
Name : **Asoka Kahawita / Oscar**

Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Time & Date **February 11, 2020** **On-Site** 6:00:00 **TO** 16:30:00
Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
21120-5089-016-P-01	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Opened***
21120-5089-016-P-02	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Closed***
21120-5089-016-P-03	WA	2.0	6:19	2.0	2.0	14:49	510	1020	23.5	100	0	29.94	**0.01**	☐ Work-Area ☐ • **03**. Inside Containmenmt-5, 191 Corridor area.
21120-5089-016-P-04	EV	2.0	6:19	2.0	2.0	14:52	513	1026	1	100	0	1.27	**0.00**	☐ Environmental ☐ • **04**. Front of Deco Containmenmt-5 main lobby area.
21120-5089-016-P-05	EV	2.0	6:19	2.0	2.0	14:53	514	1028	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **05**. Front of Classroom-116Door main lobby area
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***						

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 11, 2020
ON SITE FROM:	6.00 TO 16.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	10 MILEAGE 60	Air Samples I.D.	2112020-100.5089.016-P

Scope of Work

Quick Glance: Physical Education Building abatement Project.
ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location:

Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) **(Active)**
Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **(Preparation)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768, Baltimore Ave, Beltsville, MD-20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Barco-Abatement Crew Supervisor Gustavo Morales (571-275-6944), Ron (443-974-2943) and discussed abatement project work scope schedules details. • Inspected (Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) work areas critical containment barriers are secured and sound required work practices and engineering control tools on site including air less spry and HEPA vacuum Air negative units operating at and optimum flow rate. Continued final cleaning HEPA vacuumed wet wipe process. Decontamination facility areas clean. • Abatement crew continued activities using proper PPE with ½ face respirators See attached PCM sample data sheet for location and flow rates and the sampling time schedules with full details. Setup environmental air sampling pumps 1st floor selected corridor Project location flow rate measured with a Rotameter at the start of the air sampling process.
7:00	Continued abatement process 1st floor containment-5, Project location, walked throughout project location, adequate worker protection disposable materials on site. Crew supervisor informed Glove bags setup preparation completed, inspected and conducted smoke test did not found or observed any leaking g, authorized glove bag abatement. Critical containment barriers are secured and sound, negative units operating at and optimum flow rate, decon areas clean, adequate worker protection disposable material on site.
8:00	Continued Project activities. Communicated with MC-Campus Environmental Safety Officer (POC) & Michael Rocke (240-753-2526), & Tidewater Inc (CIH) Skanda (443-983-0362) and discussed project activities work scope details. Met with Barco-Abatement Crew Supervisor Gustavo Morales (571-275-6944), and discussed Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and 102, 131, 107, 112, 114 & 191 Corridors attached combined work area activities progress details.
9.00	Met with MC-Campus Environmental Safety Officer (POC) & Michael Rocke (240-753-2526), & walked throughout (2nd floor) abatement process completed project location and conducted worked throughout visual inspection and found activities completed areas within limits in according to provided project work scope specification if applicable.
10:00	Continued Project activities. Walked throughout project location, containment-5 decon area clean, adequate worker protection disposable material on site, no problem observed. Met with Tidewater Inc (IH) Walter (240-310-6633), and discussed project work scope details.
11.00	Barco abatement crews left for lunch break. Met with Barco-Abatement Crew Supervisor Gustavo Morales and discussed project activities work scope progress details.

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

13:00	Continued Project activities. Walked throughout project location, adequate worker protection disposable material on site, crew continued activities designated work project location.
14:00	Continued Project activities. Walked throughout project location, adequate worker protection disposable material on site, crew continued activities designated work project location. Collected PCM air samples & pumps from 1st floor project areas pumps flow rate measured with a Rotameter at the end of the sampling process. See attached PCM sample data sheet for locations.
15:00	Analysis PCM air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
16.30	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
	Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. Industrial Hygiene Consultant Accreditation: • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-2000002691) (Exp-date: Feb-2021)
	Procedures should be follow-up when containment teardown cleanup process • All ploys must remove from the facility structures and bagged as asbestos waste. • All equipment tools, materials, supplies and waste must remove. • Spray glue and or tape residue adequately clean from facility structures. • Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum) • Keep air Negative units (if Possible) until final teardown completion.
	Removed ACM-Quantity and description by (EACH) location & Containments. **(Abatement completed project locations)** 1. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **a.** Ceiling Tiles with (Red Backing) **None** **b.** Mudded joint & Elbows **37** **c.** Mastic (RM-119 /Storage area) **500SFT** **d.** 9" x "9" Floor Tile & Mastic (RM-119 /Storage area) **60SFT** 2. Containmenmt-**1**-**B** = 115-Womens-Toilet. **e.** Ceiling Tiles with (Red Backing) **None** **f.** Mudded joint & Elbows **None** 3. Containmenmt-**2** = 147-Storage & Corridor. **g.** Ceiling Tiles with (Red Backing) **15** **h.** Mudded joint & Elbows None 4. Containmenmt-**3** = 140-Weight Room & attached Corridor. **i.** Ceiling Tiles with (Red Backing) **None** **j.** Suspected Dust & Debris **Lot** (**140A-Mech-Room)** 5. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **k.** Ceiling Tiles with (Red Backing) **None** **l.** Mudded joint & Elbows **42 (31 Glove bag) 11 stay** **m.** 9" x "9" Floor Tile & Mastic (RM-112) Damage areas **20SFT** Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **(400)** waste bags including teardown cleaning waste. Containmenmt-**1**-**B** = 115-Womens-Toilet. **(75)** waste bags including teardown cleaning waste Containmenmt-**2** = 147-Storage & Corridor. **(100)** waste bags including teardown cleaning waste Containmenmt-**3** = 140-Weight Room. **(400)** waste bags including teardown cleaning waste

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 11, 2020
ON SITE FROM:	6.00 TO 16.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	10 MILEAGE 60	Air Samples I.D.	2112020-100.5089.016-P

Scope of Work

Quick Glance: Physical Education Building abatement Project.

ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location:

Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) **(Active)**

Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **(Preparation)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768, Baltimore Ave, Beltsville, MD-20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Barco-Abatement Crew Supervisor Gustavo Morales (571-275-6944), Ron (443-974-2943) and discussed abatement project work scope schedules details. • Inspected (Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) work areas critical containment barriers are secured and sound required work practices and engineering control tools on site including air less spry and HEPA vacuum Air negative units operating at and optimum flow rate. Continued final cleaning HEPA vacuumed wet wipe process. Decontamination facility areas clean. • Abatement crew continued activities using proper PPE with ½ face respirators See attached PCM sample data sheet for location and flow rates and the sampling time schedules with full details. Setup environmental air sampling pumps 1st floor selected corridor Project location flow rate measured with a Rotameter at the start of the air sampling process.
7:00	Continued abatement process 1st floor containment-5, Project location, walked throughout project location, adequate worker protection disposable materials on site. Crew supervisor informed Glove bags setup preparation completed, inspected and conducted smoke test did not found or observed any leaking g, authorized glove bag abatement. Critical containment barriers are secured and sound, negative units operating at and optimum flow rate, decon areas clean, adequate worker protection disposable material on site.
8:00	Continued Project activities. Communicated with MC-Campus Environmental Safety Officer (POC) & Michael Rocke (240-753-2526), & Tidewater Inc (CIH) Skanda (443-983-0362) and discussed project activities work scope details. Met with Barco-Abatement Crew Supervisor Gustavo Morales (571-275-6944), and discussed Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and 102, 131, 107, 112, 114 & 191 Corridors attached combined work area activities progress details.
9.00	Met with MC-Campus Environmental Safety Officer (POC) & Michael Rocke (240-753-2526), & walked throughout (2nd floor) abatement process completed project location and conducted worked throughout visual inspection and found activities completed areas within limits in according to provided project work scope specification if applicable.
10:00	Continued Project activities. Walked throughout project location, containment-5 decon area clean, adequate worker protection disposable material on site, no problem observed. Met with Tidewater Inc (IH) Walter (240-310-6633), and discussed project work scope details.
11.00	Barco abatement crews left for lunch break. Met with Barco-Abatement Crew Supervisor Gustavo Morales and discussed project activities work scope progress details.

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

13:00	Continued Project activities. Walked throughout project location, adequate worker protection disposable material on site, crew continued activities designated work project location.
14:00	Continued Project activities. Walked throughout project location, adequate worker protection disposable material on site, crew continued activities designated work project location. Collected PCM air samples & pumps from 1st floor project areas pumps flow rate measured with a Rotameter at the end of the sampling process. See attached PCM sample data sheet for locations.
15:00	Analysis PCM air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
16.30	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
	Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. Industrial Hygiene Consultant Accreditation: • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-2000002691) (Exp-date: Feb-2021)
	Procedures should be follow-up when containment teardown cleanup process • All ploys must remove from the facility structures and bagged as asbestos waste. • All equipment tools, materials, supplies and waste must remove. • Spray glue and or tape residue adequately clean from facility structures. • Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum) • Keep air Negative units (if Possible) until final teardown completion.
	Removed ACM-Quantity and description by (EACH) location & Containments. **(Abatement completed project locations)** 1. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **a.** Ceiling Tiles with (Red Backing) — **None** **b.** Mudded joint & Elbows — **37** **c.** Mastic (RM-119 /Storage area) — **500SFT** **d.** 9" x "9" Floor Tile & Mastic (RM-119 /Storage area) — **60SFT** 2. Containmenmt-**1**-**B** = 115-Womens-Toilet. **e.** Ceiling Tiles with (Red Backing) — **None** **f.** Mudded joint & Elbows — **None** 3. Containmenmt-**2** = 147-Storage & Corridor. **g.** Ceiling Tiles with (Red Backing) — **15** **h.** Mudded joint & Elbows — None 4. Containmenmt-**3** = 140-Weight Room & attached Corridor. **i.** Ceiling Tiles with (Red Backing) — **None** **j.** Suspected Dust & Debris — **Lot (140A-Mech-Room)** 5. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **k.** Ceiling Tiles with (Red Backing) — **None** **l.** Mudded joint & Elbows — **42 (31 Glove bag) 11 stay** **m.** 9" x "9" Floor Tile & Mastic (RM-112) Damage areas — **20SFT** Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **(400)** waste bags including teardown cleaning waste. Containmenmt-**1**-**B** = 115-Womens-Toilet. **(75)** waste bags including teardown cleaning waste Containmenmt-**2** = 147-Storage & Corridor. **(100)** waste bags including teardown cleaning waste Containmenmt-**3** = 140-Weight Room. **(400)** waste bags including teardown cleaning waste

Reviewed by: _____

TIDEWATER INC

PCM & TEM AIR SAMPLE DATA SHEET

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **February 11, 2020** **On-Site** 6:00:00 **TO** 16:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
21120-5089-016-P-01	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Opened***
21120-5089-016-P-02	FB									100	0	0.00	**0.00**	***Filed Blank*** ***Closed***
21120-5089-016-P-03	**WA**	2.0	6:19	2.0	2.0	14:49	510	1020	23.5	100	0	29.94	**0.01**	☐ **Work-Area** ☐ • **03.** Inside Containmenmt-5, 191 Corridor area.
21120-5089-016-P-04	EV	2.0	6:19	2.0	2.0	14:52	513	1026	1	100	0	1.27	**0.00**	☐ Environmental ☐ • **04.** Front of Deco Containmenmt-5 main lobby area.
21120-5089-016-P-05	EV	2.0	6:19	2.0	2.0	14:53	514	1028	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **05.** Front of Classroom-116Door main lobby area
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***						

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

EXHIBIT A

ASBESTOS PRE-ABATEMENT CHECKLIST

Building:	Physical Education bldg.	**Project**:	Montgomery College (Rockville) #5089-016
Location:	Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and	**Date**:	Feb-12-2020
Removal Contractor:	BARCO	**Time Inspected**:	06:15
Monitoring:	A. Kahawita / Oscar (Tidewater)	**Time Removal Began**:	06:30

Inspection Category	Activity to be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓ ✓ ✓	
2. Signage	a. Caution signs at vestibule entry	✓		**5. Work Habits in Work Area**	**d.** No smoking **e.** No eating/drinking	✓ ✓	
	b. OSHA ASBESTOS SIGN	✓					
	c. Dumpster, drums and bags labeled	✓					

FIELD NOTES: (Describe any problems encountered) None.

TIDEWATER INC

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

PCM & TEM AIR SAMPLE DATA SHEET

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **February 12, 2020** **On-Site** 6:00:00 **TO** 16:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location	
21220-5089-016-Q-01	**FB**									100	0	0.00	**0.00**	***Filed Blank***	***Opened***
21220-5089-016-Q-02	**FB**									100	0	0.00	**0.00**	***Filed Blank***	***Closed***
21220-5089-016-Q-03	**WA**	2.0	6:26	2.0	2.0	11:12	286	572	17	100	0	21.66	**0.01**	☐ **Work-Area**	☐ • **03**. Inside Containmenmt-5, 191 Corridor area.
21220-5089-016-Q-04	EV	2.0	6:34	2.0	2.0	11:15	281	562	1.5	100	0	1.91	**0.00**	☐ Environmental	☐ • **04**. Front of Deco Containmenmt-5 main lobby area.
21220-5089-016-Q-05	EV	2.0	6:34	2.0	2.0	11:15	281	562	0	100	0	0.00	**0.00**	☐ Environmental	☐ • **05**. Front of Classroom-116Door main lobby area
21220-5089-016-Q-06	**FB**													☐ FB/FC/TEM	***Opened***
21220-5089-016-Q-07	**FB**													☐ FB/FC/TEM	***Closed***
21220-5089-016-Q-08	**FC**	10.0	13:43	9.8	9.9	15:47	124	1228						☐ **FC/TEM**	☐ • **08**. 1st Flr Inside Containmenmt-5, PEC-RM-131-Center
21220-5089-016-Q-09	**FC**	10.0	13:43	10.0	10.0	15:47	124	1240						☐ **FC/TEM**	☐ • **09**. 1st Flr Inside Containmenmt-5, 101 Main-Lobby Center.
21220-5089-016-Q-10	**FC**	10.0	13:44	9.9	10.0	15:48	124	1234						☐ **FC/TEM**	☐ • **10**. 1st Flr Inside Cont-5, 191 Corridor F/Of-RM114-Door.
21220-5089-016-Q-11	**FC**	10.0	13:44	9.9	10.0	15:48	124	1234						☐ **FC/TEM**	☐ • **10**. 1st Flr Inside Cont-5, Classroom-112 center
21220-5089-016-Q-12	**FC**	10.0	13:45	10.0	10.0	15:48	123	1230						☐ **FC/TEM**	☐ • **12**. 1st Flr Inside Cont-5, Corridor front of RM-107 door
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***						

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 12, 2020
ON SITE FROM:	6.00 TO 16.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	10 MILEAGE 60	Air Samples I.D.	2122020-100.5089.016-Q

Scope of Work

Quick Glance: Physical Education Building abatement Project.

ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location:

Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) **(Active)**

Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **(Preparation)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768, Baltimore Ave, Beltsville, MD-20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Barco-Abatement Crew Supervisor Gustavo Morales (571-275-6944), Ron (443-974-2943) and discussed abatement project work scope schedules details. continued with final cleaning HEPA vacuumed wet wipe process. • Inspected (Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) work areas critical containment barriers are secured and sound required work practices and engineering control tools on site including air less spry and HEPA vacuum, Air negative units operating optimum flow rate. Decontamination facility areas clean. • Abatement crew continued activities using proper PPE with ½ face respirators See attached PCM sample data sheet for location and flow rates and the sampling time schedules with full details. Setup environmental air sampling pumps 1st floor selected corridor Project location flow rate measured with a Rotameter at the start of the air sampling process.
7:00	Continued abatement process 1st floor containment-5, Project location, walked throughout project location, adequate worker protection disposable materials on site.
8:00	Continued Project activities. Met with Barco-Abatement Crew Supervisor Gustavo Morales (571-275-6944), and discussed Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and 102, 131, 107, 112, 114 & 191 Corridors attached combined work area activities progress details.
9.00	Continued with final cleaning HEPA vacuumed wet wipe process. met with MC-Campus Environmental Safety Officer (POC) & Michael Rocke (240-753-2526), and walked throughout project location and discussed activities progress schedules details with Barco-Abatement Crew Supervisor Gustavo Morales & Ron.
10:00	Continued Project activities. walked throughout project location with MC-Campus Environmental Safety Officer (POC) & Michael Rocke (240-753-2526), Ms. Mia Toyofuku and discussed activities progress schedules details, including Pool observation wall area lead bass paint chip sampling project details Barco-Abatement Crew Supervisor Gustavo Morales informed Containment-5 ready for post abatement visual inspection. • Conducted Post abatement visual inspection of the work areas with crew supervisor with five crew workers, walked throughout visual inspection observation FOUN NO visible dust or waste within the scope of work areas, Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors and others spaces under the containment. Final cleaning HEAP vacuumed, wet wipe process conducted in an acceptable manner and meet the requirements, critical containment barriers are secure and sound, Air negative units operating at an optimum flow rate, authorized lock down encapsulation of the work area and advice crew supervisor to applied extract encapsulation above the ceiling areas Black Mastic sealant attach Duct system and pipe insulation areas. Collected work areas air samples. Decon areas clean, negative pressures greater than (0.02)

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

11.00	• Collected environmental air samples from the project location pump Flow rate measured with a Rotameter at the end of the sampling time Note: Final visual inspection passed, inspection started 10.30am and completed by 11.15pm due to volume of the containment areas and some areas visual conducted random manner. Total of 34 Mudded joint removed from this project location and 8 mudded joint remaining there with good condition. remaining Mudded joint located 5 on the 101-lobby location and 3 on the PE Class room next to 119 Gymnasium Storage location. Collected PCM air samples & pumps from 1st floor project areas pumps flow rate measured with a Rotameter at the end of the sampling process. See attached PCM sample data sheet for locations. Analysis air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
12:00	Continued Project activities (Containment setup preparation) 1st floor located in the main lobby attached Elevator. discussed setup preparation activities progress details with crew supervisor.
13.30	• Setup High volume TEM final clearances air samples Containmenmt-**5** areas pumps flow rate measured with a Rotameter at the start ($10.0^{(LPM)}$), critical containment barriers are secure and sound, air negative units operating at and optimum flow rate, Decon areas clean, negative pressures reading greater than (0.02).
15:45	Continued Project activities (Containment setup preparation) 1st floor located in the main lobby attached Elevator. discussed setup preparation activities progress details with crew supervisor. • Collected TEM final clearances air samples from Containmenmt-**5** areas pumps flow rate measured with a Rotameter at the end of the sampling process, critical containment barriers are secure and sound, air negative units operating at and optimum flow rate, Decon areas clean, negative pressures reading greater than (0.02).
16.30	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
17.30	Deliver TEM air samples to EMSL Analytical Inc. 10768, Baltimore Ave, Beltsville, MD-20705. Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. Industrial Hygiene Consultant Accreditation: • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-2000002691) (Exp-date: Feb-2021)
	Procedures should be follow-up when containment teardown cleanup process • All ploys must remove from the facility structures and bagged as asbestos waste. • All equipment tools, materials, supplies and waste must remove. • Spray glue and or tape residue adequately clean from facility structures. • Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum) • Keep air Negative units (if Possible) until final teardown completion.
	Removed ACM-Quantity and description by (EACH) location & Containments. **(Abatement completed project locations)** 1. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **a.** Ceiling Tiles with (Red Backing) — **None** **b.** Mudded joint & Elbows — **37** **c.** Mastic (RM-119 /Storage area) — **500SFT** **d.** 9" x "9" Floor Tile & Mastic (RM-119 /Storage area) — **60SFT** 2. Containmenmt-**1**-**B** = 115-Womens-Toilet. **e.** Ceiling Tiles with (Red Backing) — **None** **f.** Mudded joint & Elbows — **None** 3. Containmenmt-**2** = 147-Storage & Corridor. **g.** Ceiling Tiles with (Red Backing) — **15** **h.** Mudded joint & Elbows — None 4. Containmenmt-**3** = 140-Weight Room & attached Corridor. **i.** Ceiling Tiles with (Red Backing) — **None** **j.** Suspected Dust & Debris — **Lot (140A-Mech-Room)** 5. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **k.** Ceiling Tiles with (Red Backing) — **None** **l.** Mudded joint & Elbows — **42 (34 Glove bag) 8 stay** **m.** 9" x "9" Floor Tile & Mastic (RM-112) Damage areas — **15SFT**

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

	Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **(400)** waste bags including teardown cleaning waste. Containmenmt-**1**-**B** = 115-Womens-Toilet. **(75)** waste bags including teardown cleaning waste Containmenmt-**2** = 147-Storage & Corridor. **(100)** waste bags including teardown cleaning waste Containmenmt-**3** = 140-Weight Room. **(400)** waste bags including teardown cleaning waste

TIDEWATER INC

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

PCM & TEM AIR SAMPLE DATA SHEET

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **February 12, 2020** **On-Site** 6:00:00 **TO** 16:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
21220-5089-016-Q-01	**FB**									100	0	0.00	**0.00**	***Filed Blank*** ***Opened***
21220-5089-016-Q-02	**FB**									100	0	0.00	**0.00**	***Filed Blank*** ***Closed***
21220-5089-016-Q-03	**WA**	2.0	6:26	2.0	2.0	11:12	286	572	17	100	0	21.66	**0.01**	☐ **Work-Area** ☐ • **03**. Inside Containmenmt-5, 191 Corridor area.
21220-5089-016-Q-04	EV	2.0	6:34	2.0	2.0	11:15	281	562	1.5	100	0	1.91	**0.00**	☐ Environmental ☐ • **04**. Front of Deco Containmenmt-5 main lobby area.
21220-5089-016-Q-05	EV	2.0	6:34	2.0	2.0	11:15	281	562	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **05**. Front of Classroom-116Door main lobby area
21220-5089-016-Q-06	**FB**													☐ FB/FC/TEM ***Opened***
21220-5089-016-Q-07	**FB**													☐ FB/FC/TEM ***Closed***
21220-5089-016-Q-08	**FC**	10.0	13:43	9.8	9.9	15:47	124	1228						☐ **FC/TEM** ☐ • **08**. 1st Flr Inside Containmenmt-5, PEC-RM-131-Center
21220-5089-016-Q-09	**FC**	10.0	13:43	10.0	10.0	15:47	124	1240						☐ **FC/TEM** ☐ • **09**. 1st Flr Inside Containmenmt-5, 101 Main-Lobby Center.
21220-5089-016-Q-10	**FC**	10.0	13:44	9.9	10.0	15:48	124	1234						☐ **FC/TEM** ☐ • **10**. 1st Flr Inside Cont-5, 191 Corridor F/Of-RM114-Door.
21220-5089-016-Q-11	**FC**	10.0	13:44	9.9	10.0	15:48	124	1234						☐ **FC/TEM** ☐ • **10**. 1st Flr Inside Cont-5, Classroom-112 center
21220-5089-016-Q-12	**FC**	10.0	13:45	10.0	10.0	15:48	123	1230						☐ **FC/TEM** ☐ • **12**. 1st Flr Inside Cont-5, Corridor front of RM-107 door
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***					

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC

PCM & TEM AIR SAMPLE DATA SHEET

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

Project : **MCM-Physical Education Building-Abatement**
Job – No : **100.5089.016**
Name : **Asoka Kahawita / Oscar**

Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Time & Date **February 13, 2020** **On-Site** 6:00:00 **TO** 16:30:00
Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
21320-5089-016-R-01	**FB**									100	0	0.00	**0.00**	***Filed Blank*** ***Opened***
21320-5089-016-R-02	**FB**									100	0	0.00	**0.00**	***Filed Blank*** ***Closed***
21320-5089-016-R-03	EV	2.0	6:33	2.0	2.0	14:49	496	992	0	100	0	0.00	**0.00**	☐ Environmental ☐ **• 03**. Front of Deco Containmenmt-5 main lobby area.
21320-5089-016-R-04	EV	2.0	6:33	2.0	2.0	14:49	496	992	0	100	0	0.00	**0.00**	☐ Environmental ☐ **• 04**. Front of Classroom-117 door lobby location.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***						

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 13, 2020
ON SITE FROM:	6.00 TO 16.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	10 MILEAGE 60	Air Samples I.D.	2132020-100.5089.016-R

Scope of Work

Quick Glance: Physical Education Building abatement Project.
ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location:

Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) **(Active /FC)**
Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **(Preparation)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768, Baltimore Ave, Beltsville, MD-20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Barco-Abatement Crew Supervisor Gustavo Morales (571-275-6944), Ron (443-974-2943) and discussed Project work scope schedules details. continued with final cleaning HEPA vacuumed wet wipe process. • Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) Waiting for Final clearances TEM air samples results. • Abatement crew continued Preparation Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **Project location.** Setup environmental air sampling pumps 1st floor selected corridor Project location flow rate measured with a Rotameter at the start of the air sampling process. See attached PCM sample data sheet for location and flow rates and the sampling time schedules with full details
7:00	Continued Preparation Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **Project location**.
8:00	Continued Preparation Containmenmt-**6,** Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **Project location**
9.00	Continued Preparation Containmenmt-**6,** Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **Project location.**
10:00	Continued Preparation Containmenmt-**6,** Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **Project location.** Communicated with MC-Campus Environmental Safety Officer (POC) & Michael Rocke (240-753-2526) and discussed abatement project work scope schedules details.
11:00	Barco crew on lunch break, Preparation Continued Containmenmt-**6 Project location.**
15:00	• Collected environmental air samples from the project location pump Flow rate measured with a Rotameter at the end of the sampling time See attached PCM sample data sheet for locations. Analysis air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
16.30	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection.

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

	8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
16.00	Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. Industrial Hygiene Consultant Accreditation: • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-2000002691) (Exp-date: Feb-2021)
	Procedures should be follow-up when containment teardown cleanup process • All ploys must remove from the facility structures and bagged as asbestos waste. • All equipment tools, materials, supplies and waste must remove. • Spray glue and or tape residue adequately clean from facility structures. • Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum) • Keep air Negative units (if Possible) until final teardown completion.
	Removed ACM-Quantity and description by (EACH) location & Containments. **(Abatement completed project locations)** 1. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **a.** Ceiling Tiles with (Red Backing) **None** **b.** Mudded joint & Elbows **37** **c.** Mastic (RM-119 /Storage area) **500^{SFT}** **d.** 9” x “9” Floor Tile & Mastic (RM-119 /Storage area) **60^{SFT}** 2. Containmenmt-**1**-**B** = 115-Womens-Toilet. **e.** Ceiling Tiles with (Red Backing) **None** **f.** Mudded joint & Elbows **None** 3. Containmenmt-**2** = 147-Storage & Corridor. **g.** Ceiling Tiles with (Red Backing) **15** **h.** Mudded joint & Elbows None 4. Containmenmt-**3** = 140-Weight Room & attached Corridor. **i.** Ceiling Tiles with (Red Backing) **None** **j.** Suspected Dust & Debris **Lot (140A-Mech-Room)** 5. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **k.** Ceiling Tiles with (Red Backing) **None** **l.** Mudded joint & Elbows **42 (34 Glove bag) 8 stay** **m.** 9” x “9” Floor Tile & Mastic (RM-112) Damage areas **15^{SFT}** Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **(400)** waste bags including teardown cleaning waste. Containmenmt-**1**-**B** = 115-Womens-Toilet. **(75)** waste bags including teardown cleaning waste Containmenmt-**2** = 147-Storage & Corridor. **(100)** waste bags including teardown cleaning waste Containmenmt-**3** = 140-Weight Room. **(400)** waste bags including teardown cleaning waste Containmenmt-**5** = 140-Weight Room. **(475)** waste bags including teardown cleaning waste

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 13, 2020
ON SITE FROM:	6.00 TO 16.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	10 MILEAGE 60	Air Samples I.D.	2132020-100.5089.016-R

Scope of Work

Quick Glance: Physical Education Building abatement Project.

ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location:

Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) **(Active /FC)**

Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **(Preparation)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768, Baltimore Ave, Beltsville, MD-20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Barco-Abatement Crew Supervisor Gustavo Morales (571-275-6944), Ron (443-974-2943) and discussed Project work scope schedules details. continued with final cleaning HEPA vacuumed wet wipe process. • Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) Waiting for Final clearances TEM air samples results. • Abatement crew continued Preparation Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **Project location.** Setup environmental air sampling pumps 1st floor selected corridor Project location flow rate measured with a Rotameter at the start of the air sampling process. See attached PCM sample data sheet for location and flow rates and the sampling time schedules with full details
7:00	Continued Preparation Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **Project location**.
8:00	Continued Preparation Containmenmt-**6,** Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **Project location**
9.00	Continued Preparation Containmenmt-**6,** Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **Project location.**
10:00	Continued Preparation Containmenmt-**6,** Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **Project location.** Communicated with MC-Campus Environmental Safety Officer (POC) & Michael Rocke (240-753-2526) and discussed abatement project work scope schedules details.
11:00	Barco crew on lunch break, Preparation Continued Containmenmt-**6 Project location.**
15:00	• Collected environmental air samples from the project location pump Flow rate measured with a Rotameter at the end of the sampling time See attached PCM sample data sheet for locations. Analysis air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
16.30	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection.

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

	8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
16.00	Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. Industrial Hygiene Consultant Accreditation: • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-2000002691) (Exp-date: Feb-2021)
	Procedures should be follow-up when containment teardown cleanup process • All ploys must remove from the facility structures and bagged as asbestos waste. • All equipment tools, materials, supplies and waste must remove. • Spray glue and or tape residue adequately clean from facility structures. • Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum) • Keep air Negative units (if Possible) until final teardown completion.
	Removed ACM-Quantity and description by (EACH) location & Containments. **(Abatement completed project locations)** 1. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **a.** Ceiling Tiles with (Red Backing) — **None** **b.** Mudded joint & Elbows — **37** **c.** Mastic (RM-119 /Storage area) — **500^{SFT}** **d.** 9" x "9" Floor Tile & Mastic (RM-119 /Storage area) — **60^{SFT}** 2. Containmenmt-**1**-**B** = 115-Womens-Toilet. **e.** Ceiling Tiles with (Red Backing) — **None** **f.** Mudded joint & Elbows — **None** 3. Containmenmt-**2** = 147-Storage & Corridor. **g.** Ceiling Tiles with (Red Backing) — **15** **h.** Mudded joint & Elbows — None 4. Containmenmt-**3** = 140-Weight Room & attached Corridor. **i.** Ceiling Tiles with (Red Backing) — **None** **j.** Suspected Dust & Debris — **Lot (140A-Mech-Room)** 5. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **k.** Ceiling Tiles with (Red Backing) — **None** **l.** Mudded joint & Elbows — **42 (34 Glove bag) 8 stay** **m.** 9" x "9" Floor Tile & Mastic (RM-112) Damage areas — **15^{SFT}** Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **(400)** waste bags including teardown cleaning waste. Containmenmt-**1**-**B** = 115-Womens-Toilet. **(75)** waste bags including teardown cleaning waste Containmenmt-**2** = 147-Storage & Corridor. **(100)** waste bags including teardown cleaning waste Containmenmt-**3** = 140-Weight Room. **(400)** waste bags including teardown cleaning waste Containmenmt-**5** = 140-Weight Room. **(475)** waste bags including teardown cleaning waste

Reviewed by: _____

TIDEWATER INC

PCM & TEM AIR SAMPLE DATA SHEET

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **February 13, 2020** **On-Site** 6:00:00 **TO** 16:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
21320-5089-016-R-01	**FB**									100	0	0.00	**0.00**	***Filed Blank*** ***Opened***
21320-5089-016-R-02	**FB**									100	0	0.00	**0.00**	***Filed Blank*** ***Closed***
21320-5089-016-R-03	EV	2.0	6:33	2.0	2.0	14:49	496	992	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **03**. Front of Deco Containmenmt-5 main lobby area.
21320-5089-016-R-04	EV	2.0	6:33	2.0	2.0	14:49	496	992	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **04**. Front of Classroom-117 door lobby location.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***						

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC

PCM & TEM AIR SAMPLE DATA SHEET

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **February 14, 2020** **On-Site** 6:00:00 **TO** 16:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
21420-5089-016-S-01	**FB**									100	0	0.00	**0.00**	***Filed Blank*** ***Opened***
21420-5089-016-S-02	**FB**									100	0	0.00	**0.00**	***Filed Blank*** ***Closed***
21420-5089-016-S-03	EV	2.0	6:20	1.9	2.0	14:52	512	998	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **03**. Front of Classroom-109 door Corridor area.
21420-5089-016-S-04	EV	2.0	6:20	1.8	1.9	14:52	512	973	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **04**. Front of Classroom-128 door Corridor area.
21420-5089-016-S-05	WA	3.0	11:58	3.0	3.0	14:46	168	504	14.5	100	0	18.47	**0.01**	☐ **Work area** ☐ • **05**. Inside Containment-6 Main lobby entry door area.
21420-5089-016-S-06	EV	3.0	11:59	3.0	3.0	14:48	169	507	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **06**. Outside Front Of Decontamination Clean room area.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***						

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 14, 2020
ON SITE FROM:	6.00 TO 16.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	10 MILEAGE 60	Air Samples I.D.	2142020-100.5089.016-S

Scope of Work

Quick Glance: Physical Education Building abatement Project.
ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location:

Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) **(Teardown)**
Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **(Prep -Activation)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768, Baltimore Ave, Beltsville, MD-20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Barco-Abatement Crew Supervisor Wendy Morales & Gustavo Morales (571-275-6944), Ron (443-974-2943) and discussed Project work scope schedules details. Met with Barco-Abatement Crew Supervisor Gustavo Morales (571-275-6944), Ron (443-974-2943) and discussed Containmenmt-**5,** Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors project TEM air samples lab results details, bass on EMSL lab results authorized teardown cleaning of the work areas, and advices to proper teardown cleaning method. • Abatement crew continued Preparation Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **Project location.** Setup environmental air sampling pumps 1st floor selected corridor Project location flow rate measured with a Rotameter at the start of the air sampling process. See attached PCM sample data sheet for location and flow rates and the sampling time schedules with full details
9.00	Continued Preparation Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **Project location**.
10:00	Continued Preparation Containmenmt-**6** Met with MC-Campus Environmental Safety Officer (POC) & Michael Rocke (240-753-2526), & walked throughout project activities completed areas and setup preparation project location and discussed activities progress details.
11:00	Barco crew on lunch break**.** **Crew supervisor Wendy, informed that the work area** Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **(ready) for pre abatement visual inspection.** • Conducted Pre abatement visual inspection of the Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) work areas with crew supervisor and is acceptable for Ceiling Tiles removal, critical containment barriers of construction acceptable, securely affixed to supporting structures, none movable equipment critical with double poly sheeting, rest of the floor walls and other critical with 6 mill poly sheet, required work practices and engineering control tools on site including air less spry and HEPA vacuum, Air negative units attached to the containment and operating optimum flow rate. Decontamination facility areas clean, authorized abatement, Negative pressure reading (<0.02) **regulated** • See attached PCM sample data sheet for location and flow rates and the sampling time schedules with full details. • Adequate worker protection disposable material on site.
12.00	Met with crew supervisor Wendy and discussed Containment -6 project work scope and schedules details. • Abatement crew proceed to work area followed by proper PPE with ½ face respirators.

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

	OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.
13.00	Continued abatement containment-6 project location, decon area clean, negative pressure reading greater than (0.02).
14.00	Continued abatement containment-6 project location
15:00	• Inspected & collected air samples from (Containmenmt-**6**) project work area critical containment barriers are secured and sound required work practices and engineering control tools on site including air less spry and HEPA vacuum Air negative units operating at and optimum flow rate. Decontamination facility areas clean. • Collected environmental air samples from the project location pump Flow rate measured flow up with a Rotameter at the end time. Analysis air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
16.30	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
	Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. Industrial Hygiene Consultant Accreditation: • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-2000002691) (Exp-date: Feb-2021)
	Procedures should be follow-up when containment teardown cleanup process • All ploys must remove from the facility structures and bagged as asbestos waste. • All equipment tools, materials, supplies and waste must remove. • Spray glue and or tape residue adequately clean from facility structures. • Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum) • Keep air Negative units (if Possible) until final teardown completion.
	Removed ACM-Quantity and description by (EACH) location & Containments. **(Abatement completed project locations)** 1. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **a.** Ceiling Tiles with (Red Backing) — **None** **b.** Mudded joint & Elbows — **37** **c.** Mastic (RM-119 /Storage area) — **500^{SFT}** **d.** 9" x "9" Floor Tile & Mastic (RM-119 /Storage area) — **60^{SFT}** 2. Containmenmt-**1**-**B** = 115-Womens-Toilet. **e.** Ceiling Tiles with (Red Backing) — **None** **f.** Mudded joint & Elbows — **None** 3. Containmenmt-**2** = 147-Storage & Corridor. **g.** Ceiling Tiles with (Red Backing) — **15** **h.** Mudded joint & Elbows — None 4. Containmenmt-**3** = 140-Weight Room & attached Corridor. **i.** Ceiling Tiles with (Red Backing) — **None** **j.** Suspected Dust & Debris — **Lot (140A-Mech-Room)** 5. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **k.** Ceiling Tiles with (Red Backing) — **None** **l.** Mudded joint & Elbows — **42 (34 Glove bag) 8 stay** **m.** 9" x "9" Floor Tile & Mastic (RM-112) Damage areas — **15^{SFT}** Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **(400)** waste bags including teardown cleaning waste. Containmenmt-**1**-**B** = 115-Womens-Toilet. **(75)** waste bags including teardown cleaning waste Containmenmt-**2** = 147-Storage & Corridor. **(100)** waste bags including teardown cleaning waste Containmenmt-**3** = 140-Weight Room. **(400)** waste bags including teardown cleaning waste Containmenmt-**3** = 140-Weight Room **(500)** waste bags including teardown cleaning waste

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 14, 2020
ON SITE FROM:	6.00 TO 16.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	10 MILEAGE 60	Air Samples I.D.	2142020-100.5089.016-S

Scope of Work

Quick Glance: Physical Education Building abatement Project.
ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location:

Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors) **(Teardown)**
Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **(Prep -Activation)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768, Baltimore Ave, Beltsville, MD-20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Barco-Abatement Crew Supervisor Wendy Morales & Gustavo Morales (571-275-6944), Ron (443-974-2943) and discussed Project work scope schedules details. Met with Barco-Abatement Crew Supervisor Gustavo Morales (571-275-6944), Ron (443-974-2943) and discussed Containmenmt-**5,** Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors project TEM air samples lab results details, bass on EMSL lab results authorized teardown cleaning of the work areas, and advices to proper teardown cleaning method. • Abatement crew continued Preparation Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **Project location.** Setup environmental air sampling pumps 1st floor selected corridor Project location flow rate measured with a Rotameter at the start of the air sampling process. See attached PCM sample data sheet for location and flow rates and the sampling time schedules with full details
9.00	Continued Preparation Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **Project location**.
10:00	Continued Preparation Containmenmt-**6** Met with MC-Campus Environmental Safety Officer (POC) & Michael Rocke (240-753-2526), & walked throughout project activities completed areas and setup preparation project location and discussed activities progress details.
11:00	Barco crew on lunch break**.** **Crew supervisor Wendy, informed that the work area** Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **(ready) for pre abatement visual inspection.** • Conducted Pre abatement visual inspection of the Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) work areas with crew supervisor and is acceptable for Ceiling Tiles removal, critical containment barriers of construction acceptable, securely affixed to supporting structures, none movable equipment critical with double poly sheeting, rest of the floor walls and other critical with 6 mill poly sheet, required work practices and engineering control tools on site including air less spry and HEPA vacuum, Air negative units attached to the containment and operating optimum flow rate. Decontamination facility areas clean, authorized abatement, Negative pressure reading (<0.02) **regulated** • See attached PCM sample data sheet for location and flow rates and the sampling time schedules with full details. • Adequate worker protection disposable material on site.
12.00	Met with crew supervisor Wendy and discussed Containment -6 project work scope and schedules details. • Abatement crew proceed to work area followed by proper PPE with ½ face respirators.

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

	OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.
13.00	Continued abatement containment-6 project location, decon area clean, negative pressure reading greater than (0.02).
14.00	Continued abatement containment-6 project location
15:00	• Inspected & collected air samples from (Containmenmt-**6**) project work area critical containment barriers are secured and sound required work practices and engineering control tools on site including air less spry and HEPA vacuum Air negative units operating at and optimum flow rate. Decontamination facility areas clean. • Collected environmental air samples from the project location pump Flow rate measured flow up with a Rotameter at the end time. Analysis air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
16.30	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
	Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. Industrial Hygiene Consultant Accreditation: • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-2000002691) (Exp-date: Feb-2021)
	Procedures should be follow-up when containment teardown cleanup process • All ploys must remove from the facility structures and bagged as asbestos waste. • All equipment tools, materials, supplies and waste must remove. • Spray glue and or tape residue adequately clean from facility structures. • Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum) • Keep air Negative units (if Possible) until final teardown completion.
	Removed ACM-Quantity and description by (EACH) location & Containments. **(Abatement completed project locations)** 1. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **a.** Ceiling Tiles with (Red Backing) — **None** **b.** Mudded joint & Elbows — **37** **c.** Mastic (RM-119 /Storage area) — **500^{SFT}** **d.** 9" x "9" Floor Tile & Mastic (RM-119 /Storage area) — **60^{SFT}** 2. Containmenmt-**1**-**B** = 115-Womens-Toilet. **e.** Ceiling Tiles with (Red Backing) — **None** **f.** Mudded joint & Elbows — **None** 3. Containmenmt-**2** = 147-Storage & Corridor. **g.** Ceiling Tiles with (Red Backing) — **15** **h.** Mudded joint & Elbows — None 4. Containmenmt-**3** = 140-Weight Room & attached Corridor. **i.** Ceiling Tiles with (Red Backing) — **None** **j.** Suspected Dust & Debris — **Lot (140A-Mech-Room)** 5. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **k.** Ceiling Tiles with (Red Backing) — **None** **l.** Mudded joint & Elbows — **42 (34 Glove bag) 8 stay** **m.** 9" x "9" Floor Tile & Mastic (RM-112) Damage areas — **15^{SFT}** Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **(400)** waste bags including teardown cleaning waste. Containmenmt-**1**-**B** = 115-Womens-Toilet. **(75)** waste bags including teardown cleaning waste Containmenmt-**2** = 147-Storage & Corridor. **(100)** waste bags including teardown cleaning waste Containmenmt-**3** = 140-Weight Room. **(400)** waste bags including teardown cleaning waste Containmenmt-**3** = 140-Weight Room **(500)** waste bags including teardown cleaning waste

Reviewed by: _____

TIDEWATER INC

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

PCM & TEM AIR SAMPLE DATA SHEET

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **February 14, 2020** **On-Site** 6:00:00 **TO** 16:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
21420-5089-016-S-01	**FB**									100	0	0.00	**0.00**	***Filed Blank*** ***Opened***
21420-5089-016-S-02	**FB**									100	0	0.00	**0.00**	***Filed Blank*** ***Closed***
21420-5089-016-S-03	EV	2.0	6:20	1.9	2.0	14:52	512	998	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **03**. Front of Classroom-109 door Corridor area.
21420-5089-016-S-04	EV	2.0	6:20	1.8	1.9	14:52	512	973	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **04**. Front of Classroom-128 door Corridor area.
21420-5089-016-S-05	WA	3.0	11:58	3.0	3.0	14:46	168	504	14.5	100	0	18.47	**0.01**	☐ **Work area** ☐ • **05**. Inside Containment-6 Main lobby entry door area.
21420-5089-016-S-06	EV	3.0	11:59	3.0	3.0	14:48	169	507	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **06**. Outside Front Of Decontamination Clean room area.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***						

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

PCM & TEM AIR SAMPLE DATA SHEET

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **February 15, 2020** **On-Site** 6:00:00 **TO** 16:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
21520-5089-016-T-01	**FB**									100	0	0.00	**0.00**	***Filed Blank*** ***Opened***
21520-5089-016-T-02	**FB**									100	0	0.00	**0.00**	***Filed Blank*** ***Closed***
21520-5089-016-T-03	EV	2.5	6:30	2.5	2.5	14:25	475	1188	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **03**. Front of Classroom-109 door Corridor area.
21520-5089-016-T-04	EV	2.5	6:30	2.5	2.5	14:25	475	1188	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **04**. Front of Classroom-128 door Corridor area.
21520-5089-016-T-05	EV	2.5	6:30	2.4	2.5	14:23	473	1159	2	100	0	2.55	**0.00**	☐ Environmental ☐ • **05**. Outside Front Of Decontamination Clean room area.
21520-5089-016-T-06	**WA**	2.5	6:34	2.3	2.4	14:19	465	1116	26	100	0	33.12	**0.01**	☐ **Work area** ☐ • **06**. Inside Containment-6 Main lobby entry door area.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***						

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 15, 2020
ON SITE FROM:	6.00 TO 16.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	10 MILEAGE 60	Air Samples I.D.	2152020-100.5089.016-T

Scope of Work

Quick Glance: Physical Education Building abatement Project.
ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location:

Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **(Active)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768, Baltimore Ave, Beltsville, MD-20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Barco-Abatement Crew Supervisor Gustavo Morales (571-275-6944), Ron (443-974-2943) and discussed Project work scope schedules details. Setup environmental air sampling pumps 1st floor selected corridor Project location flow rate measured with a Rotameter at the start of the air sampling process. • Abatement crew proceed to work area followed by proper PPE with ½ face respirators. • Inspected and setup air sampling pumps, Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) work area. critical containment barriers sound and secure, required work practices and engineering control tools on site including air less spry and HEPA vacuum, Air negative units attached to the containment and operating optimum flow rate. Decontamination facility areas clean, authorized abatement, Negative pressure reading (<0.02) See attached PCM sample data sheet for location and flow rates and the sampling time schedules with full details
9.00	Continued abatement 1st floor containment-6 Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors areas.
10:00	Continued abatement 1st floor containment-6 Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors areas.
11:00	Barco crew on lunch break**.**
12.00	Met with crew supervisor Wendy and discussed Containment -6 project work scope and schedules details. • Abatement crew proceed to work area followed by crew lunch break using proper PPE with ½ face respirators.
13.00	Continued abatement containment-6 project location, decon area clean, negative pressure reading greater than (0.02).
14.00	Continued abatement 1st floor containment-6 Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors areas.
15:00	• Inspected & collected air samples from (Containmenmt-**6**) project work area critical containment barriers are secured and sound required work practices and engineering control tools on site including air less spry and HEPA vacuum Air negative units operating at and optimum flow rate. Decontamination facility areas clean. • Collected environmental air samples from the project location pump Flow rate measured flow up with a Rotameter at the end time. Analysis air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
16.00	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address.

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

	If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
16.00	Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. Industrial Hygiene Consultant Accreditation: • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-2000002691) (Exp-date: Feb-2021)
	Procedures should be follow-up when containment teardown cleanup process • All ploys must remove from the facility structures and bagged as asbestos waste. • All equipment tools, materials, supplies and waste must remove. • Spray glue and or tape residue adequately clean from facility structures. • Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum) • Keep air Negative units (if Possible) until final teardown completion.
	Removed ACM-Quantity and description by (EACH) location & Containments. **(Abatement completed project locations)** 1. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **a.** Ceiling Tiles with (Red Backing) — **None** **b.** Mudded joint & Elbows — **37** **c.** Mastic (RM-119 /Storage area) — **500^{SFT}** **d.** 9" x "9" Floor Tile & Mastic (RM-119 /Storage area) — **60^{SFT}** 2. Containmenmt-**1**-**B** = 115-Womens-Toilet. **e.** Ceiling Tiles with (Red Backing) — **None** **f.** Mudded joint & Elbows — **None** 3. Containmenmt-**2** = 147-Storage & Corridor. **g.** Ceiling Tiles with (Red Backing) — **15** **h.** Mudded joint & Elbows — None 4. Containmenmt-**3** = 140-Weight Room & attached Corridor. **i.** Ceiling Tiles with (Red Backing) — **None** **j.** Suspected Dust & Debris — **Lot (140A-Mech-Room)** 5. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **k.** Ceiling Tiles with (Red Backing) — **None** **l.** Mudded joint & Elbows — **42 (34 Glove bag) 8 stay** **m.** 9" x "9" Floor Tile & Mastic (RM-112) Damage areas — **15^{SFT}** Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **(400)** waste bags including teardown cleaning waste. Containmenmt-**1**-**B** = 115-Womens-Toilet. **(75)** waste bags including teardown cleaning waste Containmenmt-**2** = 147-Storage & Corridor. **(100)** waste bags including teardown cleaning waste Containmenmt-**3** = 140-Weight Room. **(400)** waste bags including teardown cleaning waste Containmenmt-**4** = 140-Weight Room **(500)** waste bags including teardown cleaning waste

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 15, 2020
ON SITE FROM:	6.00 TO 16.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	10 MILEAGE 60	Air Samples I.D.	2152020-100.5089.016-T

Scope of Work

Quick Glance: Physical Education Building abatement Project.

ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location:

Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **(Active)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768, Baltimore Ave, Beltsville, MD-20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Barco-Abatement Crew Supervisor Gustavo Morales (571-275-6944), Ron (443-974-2943) and discussed Project work scope schedules details. Setup environmental air sampling pumps 1st floor selected corridor Project location flow rate measured with a Rotameter at the start of the air sampling process. • Abatement crew proceed to work area followed by proper PPE with ½ face respirators. • Inspected and setup air sampling pumps, Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) work area. critical containment barriers sound and secure, required work practices and engineering control tools on site including air less spry and HEPA vacuum, Air negative units attached to the containment and operating optimum flow rate. Decontamination facility areas clean, authorized abatement, Negative pressure reading (<0.02) See attached PCM sample data sheet for location and flow rates and the sampling time schedules with full details
9.00	Continued abatement 1st floor containment-6 Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors areas.
10:00	Continued abatement 1st floor containment-6 Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors areas.
11:00	Barco crew on lunch break**.**
12.00	Met with crew supervisor Wendy and discussed Containment -6 project work scope and schedules details. • Abatement crew proceed to work area followed by crew lunch break using proper PPE with ½ face respirators.
13.00	Continued abatement containment-6 project location, decon area clean, negative pressure reading greater than (0.02).
14.00	Continued abatement 1st floor containment-6 Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors areas.
15:00	• Inspected & collected air samples from (Containmenmt-**6**) project work area critical containment barriers are secured and sound required work practices and engineering control tools on site including air less spry and HEPA vacuum Air negative units operating at and optimum flow rate. Decontamination facility areas clean. • Collected environmental air samples from the project location pump Flow rate measured flow up with a Rotameter at the end time. Analysis air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
16.00	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address.

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

	If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
16.00	Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. Industrial Hygiene Consultant Accreditation: • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-2000002691) (Exp-date: Feb-2021)
	Procedures should be follow-up when containment teardown cleanup process • All ploys must remove from the facility structures and bagged as asbestos waste. • All equipment tools, materials, supplies and waste must remove. • Spray glue and or tape residue adequately clean from facility structures. • Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum) • Keep air Negative units (if Possible) until final teardown completion.
	Removed ACM-Quantity and description by (EACH) location & Containments. **(Abatement completed project locations)** 1. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **a.** Ceiling Tiles with (Red Backing) — **None** **b.** Mudded joint & Elbows — **37** **c.** Mastic (RM-119 /Storage area) — **500^{SFT}** **d.** 9" x "9" Floor Tile & Mastic (RM-119 /Storage area) — **60^{SFT}** 2. Containmenmt-**1**-**B** = 115-Womens-Toilet. **e.** Ceiling Tiles with (Red Backing) — **None** **f.** Mudded joint & Elbows — **None** 3. Containmenmt-**2** = 147-Storage & Corridor. **g.** Ceiling Tiles with (Red Backing) — **15** **h.** Mudded joint & Elbows — None 4. Containmenmt-**3** = 140-Weight Room & attached Corridor. **i.** Ceiling Tiles with (Red Backing) — **None** **j.** Suspected Dust & Debris — **Lot (140A-Mech-Room)** 5. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **k.** Ceiling Tiles with (Red Backing) — **None** **l.** Mudded joint & Elbows — **42 (34 Glove bag) 8 stay** **m.** 9" x "9" Floor Tile & Mastic (RM-112) Damage areas — **15^{SFT}** Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **(400)** waste bags including teardown cleaning waste. Containmenmt-**1**-**B** = 115-Womens-Toilet. **(75)** waste bags including teardown cleaning waste Containmenmt-**2** = 147-Storage & Corridor. **(100)** waste bags including teardown cleaning waste Containmenmt-**3** = 140-Weight Room. **(400)** waste bags including teardown cleaning waste Containmenmt-**4** = 140-Weight Room **(500)** waste bags including teardown cleaning waste

Reviewed by: _____

TIDEWATER INC

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

PCM & TEM AIR SAMPLE DATA SHEET

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **February 15, 2020** **On-Site** 6:00:00 **TO** 16:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
21520-5089-016-T-01	**FB**									100	0	0.00	**0.00**	***Filed Blank*** ***Opened***
21520-5089-016-T-02	**FB**									100	0	0.00	**0.00**	***Filed Blank*** ***Closed***
21520-5089-016-T-03	EV	2.5	6:30	2.5	2.5	14:25	475	1188	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **03**. Front of Classroom-109 door Corridor area.
21520-5089-016-T-04	EV	2.5	6:30	2.5	2.5	14:25	475	1188	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **04**. Front of Classroom-128 door Corridor area.
21520-5089-016-T-05	EV	2.5	6:30	2.4	2.5	14:23	473	1159	2	100	0	2.55	**0.00**	☐ Environmental ☐ • **05**. Outside Front Of Decontamination Clean room area.
21520-5089-016-T-06	**WA**	2.5	6:34	2.3	2.4	14:19	465	1116	26	100	0	33.12	**0.01**	☐ **Work area** ☐ • **06**. Inside Containment-6 Main lobby entry door area.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***						

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 17, 2020
ON SITE FROM:	6.00 TO 16.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	10 MILEAGE 60	Air Samples I.D.	2172020-100.5089.016-U

Scope of Work

Quick Glance: Physical Education Building abatement Project.

ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location:

Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **(Active)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768, Baltimore Ave, Beltsville, MD-20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Barco-Abatement Crew Supervisor Wendy Morales & Gustavo Morales (571-275-6944), and discussed Project work scope schedules details. Setup environmental air sampling pumps 1st floor selected corridor Project location flow rate measured with a Rotameter at the start of the air sampling process. • Setup air sampling pumps, Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) work area. critical containment barriers sound and secure, required work practices and engineering control tools on site including air less spry and HEPA vacuum, Air negative units attached to the containment and operating optimum flow rate. Decontamination facility areas clean, Negative pressure reading (<0.02) • Abatement crew proceed to work area followed by proper PPE with ½ face respirators. See attached PCM sample data sheet for location and flow rates and the sampling time schedules with full details
7.30	Communicated with Tidewater Inc (CIH) Skanda (443-983-0362) and discussed project activities work scope details with MC-Campus Environmental Safety Officer (POC) & Michael Rocke (240-753-2526).
8:00	Continued abatement & fine cleaning containment-6 Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors project location. Met with MC-Facility maintenances project Manager Michael (240-753-2526) and walked throughout some of the 1st floor project location with Barco abatement crew supervisor Wendy and discussed
9.30	Continued abatement & fine cleaning containment-6 project location. Me with MC-Campus Environmental Safety Officer (POC) & Michael Rocke (240-753-2526).
10:00	Continued abatement containment-6 project location, continued with final cleaning HEPA vacuumed wet wipe process decon area clean, adequate worker protection disposable material on site.
11:00	Barco crew on lunch break**.** Met with Barco-Abatement Crew Supervisor Wendy Morales & Gustavo Morales (571-275-6944) discussed project work scope schedules details.
12.00	Met with crew supervisor Wendy and discussed Containment -6 project work scope and schedules details. Continued with final cleaning HEPA vacuumed wet wipe process. • Abatement crew proceed to work area followed by crew lunch break using proper PPE with ½ face respirators.
13.00	Continued abatement containment-6 project location, decon area clean, negative pressure reading greater than (0.02).
14.00	Continued abatement (final cleaning HEPA vacuumed wet wipe process) containment-6 project location

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 17, 2020
ON SITE FROM:	6.00 TO 16.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	10 MILEAGE 60	Air Samples I.D.	2172020-100.5089.016-U

Scope of Work

Quick Glance: Physical Education Building abatement Project.

ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location:

Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **(Active)**

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768, Baltimore Ave, Beltsville, MD-20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Barco-Abatement Crew Supervisor Wendy Morales & Gustavo Morales (571-275-6944), and discussed Project work scope schedules details. Setup environmental air sampling pumps 1st floor selected corridor Project location flow rate measured with a Rotameter at the start of the air sampling process. • Setup air sampling pumps, Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) work area. critical containment barriers sound and secure, required work practices and engineering control tools on site including air less spry and HEPA vacuum, Air negative units attached to the containment and operating optimum flow rate. Decontamination facility areas clean, Negative pressure reading (<0.02) • Abatement crew proceed to work area followed by proper PPE with ½ face respirators. See attached PCM sample data sheet for location and flow rates and the sampling time schedules with full details
7.30	Communicated with Tidewater Inc (CIH) Skanda (443-983-0362) and discussed project activities work scope details with MC-Campus Environmental Safety Officer (POC) & Michael Rocke (240-753-2526).
8:00	Continued abatement & fine cleaning containment-6 Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors project location. Met with MC-Facility maintenances project Manager Michael (240-753-2526) and walked throughout some of the 1st floor project location with Barco abatement crew supervisor Wendy and discussed
9.30	Continued abatement & fine cleaning containment-6 project location. Me with MC-Campus Environmental Safety Officer (POC) & Michael Rocke (240-753-2526).
10:00	Continued abatement containment-6 project location, continued with final cleaning HEPA vacuumed wet wipe process decon area clean, adequate worker protection disposable material on site.
11:00	Barco crew on lunch break**.** Met with Barco-Abatement Crew Supervisor Wendy Morales & Gustavo Morales (571-275-6944) discussed project work scope schedules details.
12.00	Met with crew supervisor Wendy and discussed Containment -6 project work scope and schedules details. Continued with final cleaning HEPA vacuumed wet wipe process. • Abatement crew proceed to work area followed by crew lunch break using proper PPE with ½ face respirators.
13.00	Continued abatement containment-6 project location, decon area clean, negative pressure reading greater than (0.02).
14.00	Continued abatement (final cleaning HEPA vacuumed wet wipe process) containment-6 project location

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

15:00

- Inspected & collected air samples from (Containmenmt-6) project work area critical containment barriers are secured and sound required work practices and engineering control tools on site including air less spry and HEPA vacuum Air negative units operating at and optimum flow rate. Decontamination facility areas clean.
- Collected environmental air samples from the project location pump Flow rate measured flow up with a Rotameter at the end time.

Analysis air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.

16.30

PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report.
If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection.
8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration).
E-mail report and finding details sheet including PCM data sheet to provided e-mail address.
If you have any question or concerns do not hesitate to contact us at any time.
PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.

16.00

Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar.
Industrial Hygiene Consultant Accreditation:

- American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172.
- Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049.
- Inspector (State of Maryland I.D-2000002691) (Exp-date: Feb-2021)

Procedures should be follow-up when containment teardown cleanup process

- All ploys must remove from the facility structures and bagged as asbestos waste.
- All equipment tools, materials, supplies and waste must remove.
- Spray glue and or tape residue adequately clean from facility structures.
- Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum)
- Keep air Negative units (if Possible) until final teardown completion.

Removed ACM-Quantity and description by (EACH) location & Containments.
(Abatement completed project locations)

1. Containmenmt-1-A = 121-Dance Studio, 121A Mech, 119-Storage.
   - **a.** Ceiling Tiles with (Red Backing) — **None**
   - **b.** Mudded joint & Elbows — **37**
   - **c.** Mastic (RM-119 /Storage area) — **500SFT**
   - **d.** 9" x "9" Floor Tile & Mastic (RM-119 /Storage area) — **60SFT**
2. Containmenmt-1-B = 115-Womens-Toilet.
   - **e.** Ceiling Tiles with (Red Backing) — **None**
   - **f.** Mudded joint & Elbows — **None**
3. Containmenmt-2 = 147-Storage & Corridor.
   - **g.** Ceiling Tiles with (Red Backing) — **15**
   - **h.** Mudded joint & Elbows — None
4. Containmenmt-3 = 140-Weight Room & attached Corridor.
   - **i.** Ceiling Tiles with (Red Backing) — **None**
   - **j.** Suspected Dust & Debris — **Lot (140A-Mech-Room)**
5. Containmenmt-4 = 121-Dance Studio, 121A Mech, 119-Storage.
   - **k.** Ceiling Tiles with (Red Backing) — **None**
   - **l.** Mudded joint & Elbows — **42 (34 Glove bag) 8 stay**
   - **m.** 9" x "9" Floor Tile & Mastic (RM-112) Damage areas — **15SFT**
6. Containmenmt-5-A = 137B-Fitness Center-Main entry door areas.
   - **n.** Ceiling Tiles with (Red Backing) — **1**
   - **o.** Mudded joint & Elbows — **None**
   - **p.** 9" x "9" Floor Tile & Mastic (RM-112) Damage areas — **None**
7. Containmenmt-6 = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors.
   - **q.** Ceiling Tiles with (Red Backing) — **347**
   - **r.** Mudded joint & Elbows (MPJ-134A) — **15**
   - **s.** Mastic (RM-134-Sprinle-IT) area) — **14SFT**

Containmenmt-1-A = 121-Dance Studio, 121A Mech, 119-Storage.
(400) waste bags including teardown cleaning waste.
Containmenmt-1-B = 115-Womens-Toilet.
(75) waste bags including teardown cleaning waste
Containmenmt-2 = 147-Storage & Corridor.
(100) waste bags including teardown cleaning waste
Containmenmt-3 = 140-Weight Room.
(400) waste bags including teardown cleaning waste

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

	Containmenmt-**4** = 137B-Fitness Center-Main entry door areas **(80)** waste bags including teardown cleaning waste Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors **(500)** waste bags including teardown cleaning waste Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors **(600)** waste bags including teardown cleaning waste

TIDEWATER INC

PCM & TEM AIR SAMPLE DATA SHEET

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **February 17, 2020** **On-Site** 6:00:00 **TO** 16:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location
21720-5089-016-U-01	**FB**									100	0	0.00	**0.00**	***Filed Blank*** ***Opened***
21720-5089-016-U-02	**FB**									100	0	0.00	**0.00**	***Filed Blank*** ***Closed***
21720-5089-016-U-03	EV	2.5	6:31	2.5	2.5	14:45	494	1235	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **03**. Front of Classroom-109 door Corrido.
21720-5089-016-U-04	EV	2.5	6:31	2.5	2.5	14:45	494	1235	0	100	0	0.00	**0.00**	☐ Environmental ☐ • **04**. Front of Classroom-128 door Corrido.
21720-5089-016-U-05	EV	2.5	6:32	2.4	2.5	14:44	492	1205	1	100	0	1.27	**0.00**	☐ Environmental ☐ • **05**. Outside Front Decon Clean room.
21720-5089-016-U-06	**WA**	2.5	6:36	2.3	2.4	14:39	483	1159	27.5	100	0	35.03	**0.01**	☐ **Work area** ☐ • **06**. Inside Cont-6 Main lobby entry door.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***						

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 18, 2020
ON SITE FROM:	6.00 TO 16.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	10 MILEAGE 60	Air Samples I.D.	2182020-100.5089.016-V

Scope of Work

Quick Glance: Physical Education Building abatement Project.
ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location:

Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) ***(Active)***
Containmenmt-**7** = Gymnasum-137A (Mini-Storage-137A) ***(Active)***

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768, Baltimore Ave, Beltsville, MD-20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Barco-Abatement Crew Supervisor Wendy Morales (571-275-6944), and discussed Project work scope schedules details, continued with final cleaning HEPA vacuumed wet wipe process. Setup environmental air sampling pumps 1st floor selected corridor Project location flow rate measured with a Rotameter at the start of the air sampling process. • Setup air sampling pumps, Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) work area. critical containment barriers sound and secure, required work practices and engineering control tools on site including air less spry and HEPA vacuum, Air negative units attached to the containment and operating optimum flow rate. Decontamination facility areas clean, Negative pressure reading (<0.02) • Abatement crew proceed to work area followed by proper PPE with ½ face respirators. See attached PCM sample data sheet for location and flow rates and the sampling time schedules with full details • Inspected and Setup air sampling pumps, Cont-7 137A-Strograe facility work area. critical containment barriers sound and secure, required work practices and engineering control tools on site including air less spry and HEPA vacuum, **this area minor cleanup including 5sft of mastic.** Under critical mini containment. • Abatement crew proceed to work area followed by proper PPE with ½ face respirators. See attached PCM sample data sheet for location and flow rates and the sampling time schedules with full details
7.30	Continued abatement & fine cleaning containment-6 Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors project location.
8:00	Continued abatement & fine cleaning containment-6 Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors project location. Met with MC-Facility maintenances project Manager Michael (240-753-2526) and walked throughout some of the 1st floor project location with Barco abatement crew supervisor Wendy and discussed
9.30	Met with Tidewater Inc (CIH) Skanda (443-983-0362) and discussed project activities work scope details including abatement project activities completion schedules details.
10:00	Continued abatement containment-6 project location, continued with final cleaning HEPA vacuumed wet wipe process decon area clean, adequate worker protection disposable material on site.
11:00	Barco crew on lunch break**.** Met with Barco-Abatement Crew Supervisor Wendy Morales discussed project work scope schedules details.
12.00	Met with crew supervisor Wendy and discussed Containment -6 project work scope and schedules details. Continued with final cleaning HEPA vacuumed wet wipe process. Abatement crew proceed to work area followed by crew lunch break using proper PPE with ½ face

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

	respirators.
13.00	Continued abatement containment-6 project location, decon area clean, negative pressure reading greater than (0.02).
14.00	Continued abatement (final cleaning HEPA vacuumed wet wipe process) containment-6 project location
15:00	• Inspected & collected air samples from (Containmenmt-**6**) project work area critical containment barriers are secured, and sound required work practices and engineering control tools on site including air less spry and HEPA vacuum Air negative units operating at and optimum flow rate. Decontamination facility areas clean. • Collected environmental air samples from the project location pump Flow rate measured flow up with a Rotameter at the end time. Analysis air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
16.00	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
16.30	Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. Industrial Hygiene Consultant Accreditation: • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-2000002691) (Exp-date: Feb-2021)
	Procedures should be follow-up when containment teardown cleanup process • All ploys must remove from the facility structures and bagged as asbestos waste. • All equipment tools, materials, supplies and waste must remove. • Spray glue and or tape residue adequately clean from facility structures. • Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum) • Keep air Negative units (if Possible) until final teardown completion.
	Removed ACM-Quantity and description by (EACH) location & Containments. **(Abatement completed project locations)** 1. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **a.** Ceiling Tiles with (Red Backing) — **None** **b.** Mudded joint & Elbows — **37** **c.** Mastic (RM-119 /Storage area) — **500^{SFT}** **d.** 9" x "9" Floor Tile & Mastic (RM-119 /Storage area) — **60^{SFT}** 2. Containmenmt-**1**-**B** = 115-Womens-Toilet. **e.** Ceiling Tiles with (Red Backing) — **None** **f.** Mudded joint & Elbows — **None** 3. Containmenmt-**2** = 147-Storage & Corridor. **g.** Ceiling Tiles with (Red Backing) — **15** **h.** Mudded joint & Elbows — None 4. Containmenmt-**3** = 140-Weight Room & attached Corridor. **i.** Ceiling Tiles with (Red Backing) — **None** **j.** Suspected Dust & Debris — **Lot (140A-Mech-Room)** 5. Containmenmt-**4** = 121-Dance Studio, 121A Mech, 119-Storage. **k.** Ceiling Tiles with (Red Backing) — **None** **l.** Mudded joint & Elbows — **42 (34 Glove bag) 8 stay** **m.** 9" x "9" Floor Tile & Mastic (RM-112) Damage areas — **15^{SFT}** 6. Containmenmt-**5**-**A** = 137B-Fitness Center-Main entry door areas. **n.** Ceiling Tiles with (Red Backing) — **1** **o.** Mudded joint & Elbows — **None** **p.** 9" x "9" Floor Tile & Mastic (RM-112) Damage areas — **None** 7. Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors. **q.** Ceiling Tiles with (Red Backing) — **347** **r.** Mudded joint & Elbows (MPJ-134A) — **15** **s.** Mastic (RM-134-Sprinle-IT) area) — **14^{SFT}** Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **(400)** waste bags including teardown cleaning waste. Containmenmt-**1**-**B** = 115-Womens-Toilet. **(75)** waste bags including teardown cleaning waste

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

	Containmenmt-**2** = 147-Storage & Corridor. **(100)** waste bags including teardown cleaning waste Containmenmt-**3** = 140-Weight Room. **(400)** waste bags including teardown cleaning waste Containmenmt-**4** = 137B-Fitness Center-Main entry door areas **(80)** waste bags including teardown cleaning waste Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors **(500)** waste bags including teardown cleaning waste Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors **(600)** waste bags including teardown cleaning waste

TIDEWATER INC

PCM & TEM AIR SAMPLE DATA SHEET

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **February 18, 2020** **On-Site** 6:00:00 **TO** 16:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location	
21820-5089-016-V-01	**FB**									100	0	0.00	**0.00**	***Filed Blank***	***Opened***
21820-5089-016-V-02	**FB**									100	0	0.00	**0.00**	***Filed Blank***	***Closed***
21820-5089-016-V-03	EV	2.5	6:26	2.5	2.5	14:23	477	1193	0	100	0	0.00	**0.00**	☐ Environmental	☐ • **03**. Front of Classroom-109 door Corrido.
21820-5089-016-V-04	EV	2.5	6:26	2.5	2.5	14:23	477	1193	0	100	0	0.00	**0.00**	☐ Environmental	☐ • **04**. Front of Classroom-128 door Corrido.
21820-5089-016-V-05	EV	2.5	6:28	2.4	2.5	14:20	472	1156	1	100	0	1.27	**0.00**	☐ Environmental	☐ • **05**. Outside Front Decon Clean room.
21820-5089-016-V-06	**WA**	2.5	6:33	2.3	2.4	14:17	464	1114	11	100	0	14.01	**0.00**	☐ **Work area**	☐ • **06**. Inside Cont-6 Main lobby entry door.
21820-5089-016-V-07	EV	3.0	6:55	3.0	3.0	8:10	75	225	0	100	0	0.00	**0.00**	☐ Environmental	☐ • **07**. Front of 137A-Storage facility area.
21820-5089-016-V-08	**WA**	3.0	6:55	3.0	3.0	8:08	73	219	1	100	0	1.27	**0.00**	☐ **Work area**	☐ • **08**. Inside 137A-Storage facility location..
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***						

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV =** Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA=** Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level.	**FC=** Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure.	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance.	**FB =** Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 19, 2020
ON SITE FROM:	6.00 TO 16.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	10 MILEAGE 60	Air Samples I.D.	2192020-100.5089.016-W

Scope of Work

Quick Glance: Physical Education Building abatement Project.
ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations

Project location:
Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) **Active**
Final Clearances TEM Air sampling

Abatement Method:

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out Method

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification.

Project Monitor Activities

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance:

- TEM.

TEM air samples Analysis Method:

- EMSL Analytical Inc. 10768, Baltimore Ave, Beltsville, MD-20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Met with Barco-Abatement Crew Supervisor Wendy Morales & Gustavo Morales (571-275-6944), and discussed Project work scope schedules details. Continued with final cleaning HEPA vacuumed process. Setup environmental air sampling pumps 1st floor selected corridor Project location flow rate measured with a Rotameter at the start of the air sampling process. • Setup air sampling pumps, Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) work area. critical containment barriers sound and secure, required work practices and engineering control tools on site including air less spry and HEPA vacuum, Air negative units attached to the containment and operating optimum flow rate. Decontamination facility areas clean, Negative pressure reading (<0.02) • Abatement crew proceed to work area followed by proper PPE with ½ face respirators. See attached PCM sample data sheet for location and flow rates and the sampling time schedules with full details
7.00	Continued abatement & fine cleaning containment-6 Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors project location.
8:00	Continued abatement & fine cleaning.
9.00	Continued abatement containment-6 project location, continued with final cleaning HEPA vacuumed wet wipe process decon area clean, adequate worker protection disposable material on site. Met with MC-Campus Environmental Safety Manager (POC) Sharmila Pradhan (CHMM) (301-651-0393), Barco-Abatement Project Crew Supervisor (Wendy) Gustavo Morales (703-870-0125) discussed project work scope details.
10:00	Barco Abatement crew supervisor Wendy Morales (571-275-6944) informed Containmenmt-**6** ready for post abatement visual inspection. • Conducted Post abatement visual inspection Containmenmt-**6** work areas with crew supervisor Wendy, walked throughout work area of Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors, visual inspection observation FOUN NO visible dust or waste within the scope of work areas, Final cleaning HEPA vacuumed, wet wipe process conducted in an acceptable manner and meet the requirements, critical containment barriers are secure and sound, Air negative units operating at an optimum flow rate, authorized lock down encapsulation of the work area and advice crew supervisor to applied extract encapsulation above the ceiling areas Black Mastic sealant attach Duct system and pipe insulation areas. Collected work areas air samples. Decon areas clean, negative pressures greater than (0.02). final visual inspection PASSED. • Authorized lock down encapsulation of the work areas. • Post abatement visual inspection started 10:05am and completed by 10:50am. Note

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

	• During inspection observed there are Mudded fitting and Elbows some of the main lobby location around the restroom areas above the ceiling tiles, including some of the classrooms, the back mastic attached duct insulation can be found all over the duct system, (consider as (ACM according to newly conducted survey by Tidewater Inc. Duct system has black mastic sealant and strips around most of the areas (ACM) pipe insulation with different color paper insulation (ACM) refed to ACM comprehensive survey report recently conducted by the Tidewater Inc. Collected environmental air samples from the project location pump Flow rate measured flow up with a Rotameter at the end time. Analysis air samples as it was collected, followed by samples slides preparation. Method specified NIOSH-7400 (PCM) Phase-Contrast-Microscopy.
12.00	Met with crew supervisor Wendy and discussed Contianment-6 Final clearances TEM air samples (TAT) schedules details and rest of the project work scope details.
13.30	• Setup High volume TEM final clearances air samples Containmenmt-**6** project areas pumps flow rate measured with a Rotameter at the start (10.0$^{(LPM)}$), critical containment barriers are secure and sound, air negative units operating at and optimum flow rate, Decon areas clean, negative pressures reading greater than (0.02). See attached TEM sample data sheet for locations.
15:40	• Collected final clearances TEM air samples from Containmenmt-**6** project areas pumps flow rate measured with a Rotameter at the end of the sampling time, critical containment barriers are secure and sound, air negative units operating at and optimum flow rate, Decon areas clean, negative pressures reading greater than (0.02). See attached TEM sample data sheet for locations.
16.00	PCM Air Samples Analytical test results showed Fibers in air Concentration less than (<0.01) f/cc), which meets EPA recommended value. Attached PCM AIR SAMPLE DATA SHEET with this report. If Adjusted Count is less than or equal to (5 Fibers/100 Fields), count Result = (<LOD) Limit of Detection. 8-Hour (TWA) Time Weighted Average can be calculated by inserting the (Time & Concentration). E-mail report and finding details sheet including PCM data sheet to provided e-mail address. If you have any question or concerns do not hesitate to contact us at any time. PCM on site air samples analysis was conducted in accordance with mandatory OSHA reference 29-CFR-Part 1910.1001 & 1926.1101 (Append, A & B) NIOSH 7400 Method for (PCM) Phase Contrast Microscope dated 8-15-94 and EPA (Silver Book) number 600/4-85-049- measuring airborne asbestos following an abatement action.
	Delivered TEM air samples to EMSL Analytical Inc. 10768, Baltimore Ave, Beltsville, MD-20705 Air samples Ran, Collected & Analysis by on site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar. Industrial Hygiene Consultant Accreditation: • American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172. • Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049. • Inspector (State of Maryland I.D-2000002691) (Exp-date: Feb-2021)
	Procedures should be follow-up when containment teardown cleanup process • All ploys must remove from the facility structures and bagged as asbestos waste. • All equipment tools, materials, supplies and waste must remove. • Spray glue and or tape residue adequately clean from facility structures. • Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum) • Keep air Negative units (if Possible) until final teardown completion.
	Removed ACM-Quantity and description by (EACH) location & Containments. **(Abatement completed project locations)** 1. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage. **a.** Ceiling Tiles with (Red Backing) **17** **b.** Mudded joint & Elbows **37** **c.** Mastic (RM-119 /Storage area) **500^{SFT}** **d.** 9" x "9" Floor Tile & Mastic (RM-119 /Storage area) **60^{SFT}** 2. Containmenmt-**1**-**B** = 115-Womens-Toilet. **e.** Ceiling Tiles with (Red Backing) **None** **f.** Mudded joint & Elbows **None** 3. Containmenmt-**2** = 147-Storage & Corridor. **g.** Ceiling Tiles with (Red Backing) **20** **h.** Mudded joint & Elbows None 4. Containmenmt-**3** = 140-Weight Room & attached Corridor. **i.** Ceiling Tiles with (Red Backing) **None** **j.** Suspected Dust & Debris **Lot (140A-Mech-Room)** 5. Containmenmt-**4** = 121-Dance Studio, 121A Mech, 119-Storage. **k.** Ceiling Tiles with (Red Backing) **40** **l.** Mudded joint & Elbows **42 (34 Glove bag) 8 stay** **m.** 9" x "9" Floor Tile & Mastic (RM-112) Damage areas **15^{SFT}** 6. Containmenmt-**5**-**A** = 137B-Fitness Center-Main entry door areas. **n.** Ceiling Tiles with (Red Backing) **1** **o.** Mudded joint & Elbows **None** **p.** 9" x "9" Floor Tile & Mastic (RM-112) Damage areas **None** 7. Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors.

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

	q. Ceiling Tiles with (Red Backing) 750 r. Mudded joint & Elbows (MPJ-134A) 15 s. Mastic (RM-134-Sprinkle-IT) area) 14SFT Containmenmt-1-A = 121-Dance Studio, 121A Mech, 119-Storage. **(400)** waste bags including teardown cleaning waste. Containmenmt-1-B = 115-Womens-Toilet. **(75)** waste bags including teardown cleaning waste Containmenmt-2 = 147-Storage & Corridor. **(100)** waste bags including teardown cleaning waste Containmenmt-3 = 140-Weight Room. **(400)** waste bags including teardown cleaning waste Containmenmt-4 = 137B-Fitness Center-Main entry door areas **(80)** waste bags including teardown cleaning waste Containmenmt-5 = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors **(500)** waste bags including teardown cleaning waste Containmenmt-6 = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors **(800)** waste bags including teardown cleaning waste.
	1st Floor **Red Backing Ceiling Tiles 827** **Mudded Joint 105** **Mastic 514sft** **VFT Mastic 75sft** **Waste bags 2320** **2nd Floor** **Red Backing Ceiling Tiles 966** **Mudded Joint 44** **Mastic 60sft** **Waste bags 1815** **Total (4135) waste bags removed from this Project during gross removal final cleaning operation, two (2) containers of waste transportation haulers, Waste transportation list with Barco-Inc.** removed waste has been properly sealed bagged and labeled in accordance's with 29-CFR-1926-1101 (K) (2) guideline and stored on site until Barco-Inc waste transportation Hauler

TIDEWATER INC

PCM & TEM AIR SAMPLE DATA SHEET

6625 Selnick Drive. , Suite A, Elkridge, MD 21075 Tell: (410) 540-8700
Fax: (410) 579-1685

Project : **MCM-Physical Education Building-Abatement** Client: **MC-Montgomery College Rockville Campus, Rockville Maryland**
Job – No : **100.5089.016** Time & Date **February 19, 2020** **On-Site** 6:00:00 **TO** 16:30:00
Name : **Asoka Kahawita / Oscar** Analy-On-Site **Yes** Office **No** Laboratory **No**

Sample ID	Sample Type	Rotameter Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm2)	Fiber Conc. (f/cc)	Description & Location	
21920-5089-016-W-01	**FB**									100	0	0.00	**0.00**	***Filed Blank***	***Opened***
21920-5089-016-W-02	**FB**									100	0	0.00	**0.00**	***Filed Blank***	***Closed***
21920-5089-016-W-03	EV	2.5	6:12	2.5	2.5	10:54	282	705	0	100	0	0.00	**0.00**	☐ Environmental	☐ • **03**. Front of Containment-6 Decon area.
21920-5089-016-W-04	**WA**	2.5	6:15	2.5	2.5	10:50	275	688	6.5	100	0	8.28	**0.00**	☐ **Work area**	☐ • **04**. Inside Contoanment-6 main Lobby area.
21920-5089-016-W-05	EV	5.0	6:26	5.0	5.0	7:19	53	265	0	100	0	0.00	**0.00**	☐ Environmental	☐ • **05**. Front of Mini Cont-7 Decon critical area.
21920-5089-016-W-06	**WA**	5.0	6:27	5.0	5.0	7:18	51	255	0	100	0	0.00	**0.00**	☐ **Work area**	☐ • **06**. Inside Mini Containment-7 door area.
21920-5089-016-W-07	**FB**													***Filed Blank***	***Opened***
21920-5089-016-W-08	**FB**													***Filed Blank***	***Closed***
21920-5089-016-W-09	**FC**	10.0	13:36	9.8	9.9	15:40	124	1228						☐ **Final-TEM**	☐ • **09**. Cont-6, 1st Flr-Main-Lobby F/o/Eup-RM
21920-5089-016-W-10	**FC**	10.0	13:37	10.0	10.0	15:40	123	1230						☐ **Final-TEM**	☐ • **10**. Cont-6, 1st Flr-Mech-RM-134A-Center
21920-5089-016-W-11	**FC**	10.0	13:37	9.9	10.0	15:41	124	1234						☐ **Final-TEM**	☐ • **11**. Cont-6, 1st Flr-Front of Stairs to 2nd Flr
21920-5089-016-W-12	**FC**	10.0	13:38	10.0	10.0	15:41	123	1230						☐ **Final-TEM**	☐ • **12**. Cont-6, 1st Flr-Front of 133B door area
21920-5089-016-W-13	**FC**	10.0	13:38	10.0	10.0	15:42	124	1240						☐ **Final-TEM**	☐ • **13**. Cont-6, 1st Flr-Front of RM-138A IT D.
-	-	-	-	-	-	-	-	-	If Adjusted Count is less than or equal to **(5 Fibers/100 Fields)**, count Result = **(<LOD)** ***Limit of Detection***						

COMMENTS:

Samples Ran, collected and Analyzed by, **A. Kahawita (Oscar)**.

Analytical Test results indicated air samples Fibers in air concentration less than 0.01 f/cc (<0.01). This analysis was conducted in accordance with NIOSH 7400 Method for Phase Contrast Microscopy.

TEM air samples Analysis Method: Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable

American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D.#-9172, (TWI/I.D. 152002).

Key:

Analytical Constants:	***Units of Measure:***	***Sample Types:***
Effective Collecting Filter Area = **385 mm2**	**f/cc** = Fibers per cubic centimeter of filter	**EV** = Environmental
Microscope Graticle Field Area = **0.00785 mm2**	**f/mm2** = Fibers per millimeter squared of filter	BG = Background
Filter Type = ***25mm MCE, 0.8 mm pore size***	**Lpm** = Liters per minute of sampling time	**WA**= Inside work area during abatement
Limit of Detection ***(LOD)*** = ***5.5 fibers/100 fields***	**min** = Minutes of sampling time	TWA= Time Weighted Average
Definitions of Abbreviations:	**General Notes:**	WC= Working Clearance
CONC. = Concentration in air sampled	**x** - Denotes sample uncountable due to high particulate level	**FC**= Final Clearance
LOD = Limit of detection for sample	**xx** - Denotes sample not counted due to air pump failure	PS = Personal **Barco-Inc**
NIOSH = National Institute for Occupational Safety & Health	**xxx** - Denotes sample not counted due to disturbance	**FB** = Field Blank
NFO = No Fiber Observed.	**AHERA 40 CFR 763.90 (i)(2)(ii) Filters are 25MM MCE**	

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

CLIENT:	MC-Montgomery College, Rockville Campus, Rockville Maryland	JOB NUMBER:	100.5089.016
PROJECT NAME:	Physical Education Building Abatement.	DATE:	February 20, 2020
ON SITE FROM:	6.00 TO 15.30 LUNCH -	Industrial hygiene consultant	A. Kahawita / Oscar
TOTAL HOURS:	10 MILEAGE 60	Air Samples I.D.	2202020-100.5089.016-X

Scope of Work

Quick Glance: Physical Education Building abatement Project. **(Completed)**

ACM: Elbow-Mud Joint & Pipe Fitting, Ceiling Tiles (with Red Backing) Floor Tile, Mastic, Debris withing the project locations **(Completed)**

Project location:

Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors) (Teardown-Cleaning-HEPA vacuumed wet wipe activities)

Abatement **Used** Method: **(Completed)**

- Three stage Decontamination facility utilizing proper engineering control, air less spry, HEPA vacuum and wet Method.

ACM waste load out **removal** Method:

- Properly dispose of all Materials in strict, accordance with the method and procedures outlined in the project specification. (properly sealed bagged and labeled in accordance's with 29-CFR-1926-1101 (K) (2) guideline)

Project Monitor Activities **(Completed)**

- Oversight Project Monitor, Air sampling during removal & waste load out cleaning operations.
- Pre & Post abatement visual inspection authorization.
- Regular, Frequent walk throughout project areas and inspection of the job site.
- Analysis on site PCM air samples using method specified in NIOSH-7400 (PCM) Phase Contrast Microscopy.

Final air Clearance: **(Completed)**

- TEM. **(Pass)**

TEM air samples Analysis Method: **(Completed)**

- EMSL Analytical Inc. 10768, Baltimore Ave, Beltsville, MD-20705
- TEM-Transmission Electron Microscopy conducted in accordance with EPA 40-CFR-Part763-Subpart-E Appendix guideline accordance with project work scope specification if applicable.

Note **(Completed) by Barco**

- OSHA Compliance Air monitor by Abatement contractor (Barco Environmental Inc) and responsible for Personnel air sampling during all activities, in accordance's with 29-CFR-1926-1101-OSHA Asbestos standard guideline to establish negative exposure levels during the removal process and varying tasks.

6:00	Arrived on Project site, MC-Montgomery College, Rockville Campus. Communicated with: Barco-Abatement Crew Supervisor Wendy Morales (571-275-6944) MC-Campus Environmental Safety Manager (POC) Sharmila Pradhan (CHMM) (301-651-0393) MC-Campus Environmental Safety Officer (POC) & Michael Rocke (240-753-2526) TWI (CIH) Skanda (443-983-0362) and discussed Project work scope schedules details. Based on final Clearances TEM air samples results authorized removal of the Containment-06 located MCPE-main entrances lobby areas.
7.30	Met with MC-Facility Maintenances Manager Riched White (240-328-4525) and discussed project activities work scope details.
8:00	Discussed Project activities work scope details with Barco-Abatement Crew Supervisor Wendy and advice to follow-up following teardown cleaning procedures during removal of the critical barriers. Note: Highly Recommended procedures to follow-up proper removal cleaning process. **Procedures should be follow-up when containment teardown cleanup process** • All polys must remove from the facility structures and bagged as asbestos waste. • All equipment tools, materials, supplies and waste must remove. • Spray glue and or tape residue adequately clean from facility structures. • Any suspected material or residue found during teardown cleaning need to remove using (wet wipe, HEPA vacuum) • Keep air Negative units (if Possible) until final teardown completion.
9.00	Barco abatement crew continued with teardown cleaning HEPA vacuumed wet wipe process containment-6 main lobby attached project critical barriers. Met with MC-Campus Environmental Safety Officer (POC) Michael Rocke (240-753-2526) walked throughout main lobby project location and discussed project details with Barco-Abatement Crew Supervisor Wendy Morales (571-275-6944).
10:00	Continued with teardown cleaning HEPA vacuumed wet wipe process. Met with MC-Campus Environmental Safety Officer (POC) Mai walked throughout main lobby project location discussed project details.
11:00	Barco crew left for lunch break, discussed activities progress details with crew supervisor Wendy & Ron, according to crew supervisors, Teardown cleaning HEAP vacuum activities continued until tomorrow crew unable to complete today shifty as expected.
12.00	Continued with teardown cleaning HEPA vacuumed wet wipe process.

Reviewed by: _____

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

6625 Selnick Drive, Suite A, Elkridge, Maryland – 21075
Phone: (410)-540-8700 Fax: (410)-579-1685

DAILY-REPORT

14:00 Teardown Cleaning process continued, 70% of the work areas cleaning activities completed the rest to be schedules tomorrow. main lobby attached project location, discussed activities completion details with Barco-Abatement
Crew Supervisor Wendy Morales (571-275-6944).

On site Project Monitor (Tidewater Inc) (I.H.) Asoka Kahawita / Oscar.
Industrial Hygiene Consultant Accreditation:

- American Industrial Hygienic Association (AIHA) Asbestos Analysts Registry (AAR) Registered Analysts I.D. #-9172.
- Collecting & Analyzing Asbestos Air Samples: National Institute for Occupational Safety and Health (NIOSH) 582-CA06049.
- Inspector (State of Maryland I.D-2000002691) (Exp-date: Feb-2021)

Removed ACM-Quantity and description by (EACH) location & Containments.
(Abatement action completed project locations)

1. Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage.
   - **a.** Ceiling Tiles with (Red Backing) — **17**
   - **b.** Mudded joint & Elbows — **37**
   - **c.** Mastic (RM-119 /Storage area) — **500^{SFT}**
   - **d.** 9" x "9" Floor Tile & Mastic (RM-119 /Storage area) — **60^{SFT}**
2. Containmenmt-**1**-**B** = 115-Womens-Toilet.
   - **e.** Ceiling Tiles & Mudded joint & Elbows — **None**
3. Containmenmt-**2** = 147-Storage & Corridor.
   - **f.** Ceiling Tiles with (Red Backing) — **20**
4. Containmenmt-**3** = 140-Weight Room & attached Corridor.
   - **g.** Suspected Dust & Debris — **Lot (140A-Mech-Room-Debries)**
5. Containmenmt-**4** = 121-Dance Studio, 121A Mech, 119-Storage.
   - **h.** Ceiling Tiles with (Red Backing) — **40**
   - **i.** Mudded joint & Elbows — **42 (34 Glove bag) 8 stay**
   - **j.** 9" x "9" Floor Tile & Mastic (RM-112) Damage areas — **15^{SFT}**
6. Containmenmt-**5**-**A** = 137B-Fitness Center-Main entry door areas.
   - **k.** Ceiling Tiles with (Red Backing) — **1**
7. Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors.
   - **l.** Ceiling Tiles with (Red Backing) — **750**
   - **m.** Mudded joint & Elbows (MPJ-134A) — **15**
   - **n.** Mastic (RM-134-Sprinkle-IT) area) — **14^{SFT}**

Containmenmt-**1**-**A** = 121-Dance Studio, 121A Mech, 119-Storage.
(400) waste bags including teardown cleaning waste.
Containmenmt-**1**-**B** = 115-Womens-Toilet.
(75) waste bags including teardown cleaning waste
Containmenmt-**2** = 147-Storage & Corridor.
(100) waste bags including teardown cleaning waste
Containmenmt-**3** = 140-Weight Room.
(400) waste bags including teardown cleaning waste
Containmenmt-**4** = 137B-Fitness Center-Main entry door areas
(80) waste bags including teardown cleaning waste
Containmenmt-**5** = Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors
(500) waste bags including teardown cleaning waste
Containmenmt-**6** = Main Lobby-Rest of the classroom and (106, 117, 134+5+6, 116, 114 & 190 Corridors
(800) waste bags including teardown cleaning waste.

1st Floor
Red Backing Ceiling Tiles (827)
Mudded Joint (105)
Mastic(514^{sft})
VFT Mastic (75^{sft})
Waste bags (2320)
2nd Floor
Red Backing Ceiling Tiles (966)
Mudded Joint (44)
Mastic (60^{sft})
Waste bags (1815)
Of
Total of (4135) waste bags removed from this Project during gross removal final cleaning operation, two (2) containers of waste transportation haulers, Waste transportation list with Barco-Inc.
removed waste has been properly sealed bagged and labeled in accordance's with 29-CFR-1926-1101 (K) (2) guideline.

Reviewed by: _____

TIDEWATER INC

PCM AIR SAMPLE DATA SHEET

6625 Selnick Dr., Suite A, Elkridge, MD 21075

Office: (410) 540-8700

Fax: (410) 997-8713

Project : **Physical Education bldg.**

Job – No : **5089-016**

Name : Walter Gonzalez

Client: **Montgomery College (Rockville)**

Time & Date January 27, 2020 **On-Site** 7:30am **TO** 4:30pm

Analy-On-Site YES

Sample ID	Sample Type	Rotometer Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm^2)	Fiber Conc. (f/cc)	Description & Location
WG-012720-01	BG	1.5	8:36	1.5	1.50	15:30	414	621	2	100	0	2.55	**0.002**	Hall by rm #229
WG-012720-02	BG	1.5	8:36	1.5	1.50	15:30	414	621	1.5	100	0	1.91	**0.001**	Hall by rm #261
WG-012720-03	BG	1.5	8:38	1.5	1.50	15:33	415	623	2.5	100	0	3.18	**0.002**	rm #240
WG-012720-04	BG	1.5	8:39	1.5	1.50	13:35	296	444	3	100	0	3.82	**0.003**	Corridor #293
WG-012720-05	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank
WG-012720-06	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank

Physical Education bldg. 2nd floor - BARCO works on setting up contianment on 2nd floor

Analysis in accordance to NIOSH 7400 Method for Phase Contrast Microscopy, air sampling pumps are calibrated with rotameter # 194588-01

Key:

Analytical Constants:

Effective Collecting Filter Area = **385 mm^2**

Microscope Graticle Field Area = **0.00785 mm^2**

Filter Type = 25mm MCE, 0.8 µm pore size

Limit of Detection (LOD) = **5.5 fibers/100 fields**

Definitions of Abbreviations:

CONC. = Concentration in air sampled

LOD = Limit of detection for sample

NIOSH = National Institute for Occupational Safety & Health

NFO = No Fiber Observed.

Units of Measure:

f/cc = Fibers per cubic centimeter of air

f/mm2 = Fibers per square millimeter of filter

Lpm = Liters per minute of sampling time

min = Minutes of sampling time

General Notes:

***** - Denotes sample uncountable due to high particulate level.

****** - Denotes sample not counted due to air pump failure.

******* - Denotes sample not counted due to disturbance.

AHERA 40 CFR 763.90 (i)(2)(ii)

Sample Types:

EV = Environmental

BG = Background

WA= Inside work area during abatement

TWA= Time Weighted Average

WC= Working Clearance

FC= Final Clearance

PS = Personal

FB = Field Blank

TIDEWATER INC

6625 Selnick Drive, Suite A, Elkridge, Maryland 21075

Phone: (410)-540-8700 Fax (410)-997-8713

DAILY REPORT

CLIENT: Montgomery College (Rockville)

JOB NUMBER: 5089-016

PROJECT NAME: Physical Education bldg.

DATE: 1-27-2020

ON-SITE FROM: 0730 TO: 1630 LUNCH:_____

EXPENSES:_____

TOTAL HOURS:_____ MILEAGE:_____

EMPLOYEE: Walter Gonzalez

SCOPE OF WORK:

Physical Education bldg. 2nd floor – BARCO performs containment set up

SUMMARY OF ACTIVITIES:

(0730) Tidewater, Inc. Industrial Hygienist Walter Gonzalez (WG) arrives on-site at Montgomery College Campus at 51 Mannakee street, Rockville, MD 20850 to perform Area Air Monitoring and Asbestos Abatement air quality control. (WG) meets with TWI, Montgomery College and BARCO representatives to discuss work activities for the project; building is walked to discuss work practices and identified asbestos materials.

(0815) Tidewater IH calibrates high volume air sampling pumps @1.5 (LPM)

(0836) Background air samples are started throughout 2nd floor.

(0930) BARCO works on setting up critical poly barriers on power outlets and electronic device attached to ceiling. 6 mil poly is used to cover electronics and spray glue/ tape are used to create tight seals.

(1015) Workers use8 ft. ladders to reach ceiling level in order to hang poly walls. Poly wall seams are sealed with spray glue and gray tape in order to create tight seals.

(1100) Break

(1200) All workers return to their designated work areas after break.

(1230) Double layer critical barriers are set up on double doors located on corridor #292 by women's locker room; this is done to isolate the work area. Spray glue and gray tape are used on edges in order to create tight seals.

(1330) BARCO workers continue setting up poly walls, 8 ft ladders are used to reach ceiling level. Spray glue and gray tape are used on edges in order to create tight seals; bottom edges are reinforced with double side tape.

(1430) Double layer critical barriers are set up on double doors located on hallway by room #230; this is done to isolate the work area. Spray glue and gray tape are used on edges in order to create tight seals.

(1530) Tidewater rep. (WG) collects background air samples and prepares them for onsite analysis.

(1630) Work areas are cleaned for the shift, trash debris are disposed in trash bags. BARCO crew departs project-site. Tidewater IH WG performs pcm air sample analysis; results do not indicate elevated fiber concentrations.

Reviewed by:__WG_____

01-27-2020

EXHIBIT A

ASBESTOS PRE-ABATEMENT CHECKLIST

Building:	Physical Education	**Project**:	5089-016
Location:	2nd floor, Containment #1 Men's Locker Area	**Date**:	01-28-2020
Removal Contractor:	BARCO	**Time Inspected**:	12:45
Monitoring:	Walter Gonzalez (Tidewater)	**Time Removal Began**:	13:10

Inspection Category	Activity to be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓ ✓ ✓	
2. Signage	a. Caution signs at vestibule entry	✓		**5. Work Habits In Work Area**	**d.** No smoking **e.** No eating/drinking	✓ ✓	
	b. OSHA ASBESTOS SIGN	✓					
	c. Dumpster, drums and bags labeled	✓					

FIELD NOTES: (Describe any problems encountered) None.

TIDEWATER INC

6625 Selnick Dr., Suite A, Elkridge, MD 21075

Office: (410) 540-8700
Fax: (410) 997-8713

PCM AIR SAMPLE DATA SHEET

Project : **Physical Education bldg.**
Job – No : **5089-016**
Name : Walter Gonzalez

Client: **Montgomery College (Rockville)**
Time & Date January 28, 2020 **On-Site** 7:30am **TO** 4:30pm
Analy-On-Site YES

Sample ID	Sample Type	Rotometer Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm²)	Fiber Conc. (f/cc)	Description & Location
WG-012820-01	BG	1.5	8:36	1.5	1.50	15:30	414	621	2	100	0	2.55	**0.002**	Hall by rm #229
WG-012820-02	BG	1.5	8:36	1.5	1.50	15:30	414	621	1.5	100	0	1.91	**0.001**	Hall by rm #261
WG-012820-03	BG	1.5	8:38	1.5	1.50	15:33	415	623	2.5	100	0	3.18	**0.002**	rm #240
WG-012820-04	BG	1.5	8:39	1.5	1.50	13:35	296	444	3	100	0	3.82	**0.003**	Corridor #293
WG-012820-A	WA	2.0	13:15	2.0	2.00	15:30	135	270	2	100	0	2.55	**0.004**	Inside Containment #1, Mens Locker AREA
WG-012820-B	EV	2.0	13:15	2.0	2.00	15:30	135	270	0	100	0	0.00	**0.000**	Outside decon Containment #1, Mens Locker Area
WG-012820-05	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank
WG-012820-06	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank

Physical Education bldg. 2nd floor - BARCO works on setting up contianment on 2nd floor

Analysis in accordance to NIOSH 7400 Method for Phase Contrast Microscopy, air sampling pumps are calibrated with rotameter # 194588-01

Key:

Analytical Constants:

Effective Collecting Filter Area = **385 mm²**
Microscope Graticle Field Area = **0.00785 mm²**
Filter Type = 25mm MCE, 0.8 µm pore size
Limit of Detection (LOD) = **5.5 fibers/100 fields**

Definitions of Abbreviations:

CONC. = Concentration in air sampled
LOD = Limit of detection for sample
NIOSH = National Institute for Occupational Safety & Health
NFO = No Fiber Observed.

Units of Measure:

f/cc = Fibers per cubic centimeter of air
f/mm2 = Fibers per square millimeter of filter
Lpm = Liters per minute of sampling time
min = Minutes of sampling time

General Notes:

***** - Denotes sample uncountable due to high particulate level.
****** - Denotes sample not counted due to air pump failure.
******* - Denotes sample not counted due to disturbance.
AHERA 40 CFR 763.90 (i)(2)(ii)

Sample Types:

EV = Environmental
BG = Background
WA= Inside work area during abatement
TWA= Time Weighted Average
WC= Working Clearance
FC= Final Clearance
PS = Personal
FB = Field Blank

TIDEWATER INC

6625 Selnick Drive, Suite A, Elkridge, Maryland 21075

Phone: (410)-540-8700 Fax (410)-997-8713

DAILY REPORT

CLIENT: Montgomery College (Rockville)

JOB NUMBER: 5089-016

PROJECT NAME: Physical Education bldg.

DATE: 1-28-2020

ON-SITE FROM: 0600 TO: 1630 LUNCH:_____

EXPENSES:_____

TOTAL HOURS:_____10_____ MILEAGE:_____

EMPLOYEE: Walter Gonzalez

SCOPE OF WORK:

Physical Education bldg. 2nd floor – BARCO performs containment set up

SUMMARY OF ACTIVITIES:

(0600) Tidewater, Inc. Industrial Hygienist Walter Gonzalez (WG) arrives on-site at Montgomery College Campus at 51 Mannakee street, Rockville, MD 20850 to perform Area Air Monitoring and Asbestos Abatement air quality control. Tidewater rep. (WG) meets with BARCO supervisor Wendy Morales to discuss work activities for the shift. There are 18x workers and 1x supervisor onsite, they will continue containment set up on 1st and 2nd floors. BARCO supervisor will have workers focus on setting up men's locker room area in order for them to begin abatement today.

(0630) Tidewater IH calibrates high volume air sampling pumps @1.5 (LPM)

(0643) Background air samples are started throughout 2nd floor.

(0730) Workers use 8 ft. ladders to reach ceiling level in locker room where BARCO creates a 6 mil poly tunnel connecting corridor #293 to corridor #295 order to hang poly walls. Poly wall seams are sealed with spray glue and gray tape in order to create tight seals, bottom edges are sealed with double side tape.

(0830) BARCO works on setting down 6 mil poly floors in work areas where poly walls have already been set up. Floor edges are sealed where wall meets; spray glue and gray tape are used in order to create tight seals.

(0930) Critical 6 mil poly barriers are set up on light fixtures to avoid contamination during abatement. Exit signs are also being covered in the same manner.

(1015) Workers bring in shower chamber and microtraps into men's locker area where containment #1 is currently being set up. Poly flex ducts are attached to microtraps with gray tape and exhausted out through double doors located by VEST #296. Microtrap opening will remain sealed until abatement begins.

(1100) Break

(1200) All workers return to their designated work areas after break.

(1215) At this moment three stage decontamination unit is being set up in Containment #1, 2nd floor men's locker area. Each chamber is divided with double layer crossed poly curtains; each chamber is attached with spray glue and gray tape. Water hose is connected to faucet located in varsity showers and fastened to shower chamber.

(1245) Tidewater rep. (WG) conducts pre-abatement visual inspection. Poly walls, poly floor, critical poly barriers, microtraps, airless sprayer, HEPA vacuums, three stage decontamination chamber, water and OSHA/ caution signs are all in compliance with regulations. BARCO supervisor Wendy Morales is given approval to begin abatement.

(1310) Abatement workers properly suit up wearing disposable coveralls, gloves and HEPA respirators. Once suited up workers enter Containment #1, 2nd floor men's locker area and begin ceiling tile removal.

(1315) WA/ EV air samples are started for Containment #1, 2nd floor men's locker area.

(1345) Workers inside Containment #1, 2nd floor men's locker area use 8 ft ladders to reach ceiling level. Ceiling tiles are taken down from metal grids in whole sections as much as possible. Airless sprayer is closely used to keep asbestos and containment surfaces wet with amended water.

(1430) BARCO abatement workers focus on bagging up ceiling tiles that have been removed. Ceiling tiles are kept wet and then disposed inside asbestos labeled bags and sealed with gray tape.

(1530) WA/ EV air samples are collected from Containment #1, 2nd floor men's locker area.

(1600) Asbestos workers exit Containment #1, 2nd floor men's locker area following proper decontamination procedures. Used coveralls are disposed inside asbestos labeled bags, workers then wash off in shower and finally get dressed into street clothing in clean room.

(1630) Work areas are cleaned for the shift, trash debris are disposed in trash bags. BARCO crew departs project-site.

Tidewater IH WG performs pcm air sample analysis; results do not indicate elevated fiber concentrations.

Reviewed by:__WG_____

01-28-2020

TIDEWATER INC

TIDEWATER INC

PCM AIR SAMPLE DATA SHEET

6625 Selnick Dr., Suite A, Elkridge, MD 21075

Office: (410) 540-8700

Fax: (410) 997-8713

Project : **Physical Education bldg.**

Job – No : **5089-016**

Name : Walter Gonzalez

Client: **Montgomery College (Rockville)**

Time & Date January 29, 2020 **On-Site** 7:30am **TO** 4:30pm

Analy-On-Site YES

Sample ID	Sample Type	Rotometer Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm^2)	Fiber Conc. (f/cc)	Description & Location
WG-012920-01	WA	2.0	6:35	2.0	2.00	14:15	460	920	9	100	0	11.46	**0.005**	Inside Containment #1. 2nd floor Mens Locker Area
WG-012920-02	WA	2.0	6:35	2.0	2.00	14:15	460	920	12	100	0	15.29	**0.006**	Inside Containment #1. 2nd floor Mens Locker Area
WG-012920-03	EV	2.0	6:36	2.0	2.00	14:15	459	918	1.5	100	0	1.91	**0.001**	Outside decon Containment #1. 2nd floor Mens Locker Area
WG-012920-05	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank
WG-012920-06	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank

Containment #1. 2nd floor Mens Locker Area - BARCO works on ceiling tile abatement and fine cleaning

Analysis in accordance to NIOSH 7400 Method for Phase Contrast Microscopy, air sampling pumps are calibrated with rotameter # 194588-01

Key:

Analytical Constants:

Effective Collecting Filter Area = **385 mm^2**

Microscope Graticle Field Area = **0.00785 mm^2**

Filter Type = 25mm MCE, 0.8 µm pore size

Limit of Detection (LOD) = **5.5 fibers/100 fields**

Definitions of Abbreviations:

CONC. = Concentration in air sampled

LOD = Limit of detection for sample

NIOSH = National Institute for Occupational Safety & Health

NFO = No Fiber Observed.

Units of Measure:

f/cc = Fibers per cubic centimeter of air

f/mm2 = Fibers per square millimeter of filter

Lpm = Liters per minute of sampling time

min = Minutes of sampling time

General Notes:

***** - Denotes sample uncountable due to high particulate level.

****** - Denotes sample not counted due to air pump failure.

******* - Denotes sample not counted due to disturbance.

AHERA 40 CFR 763.90 (i)(2)(ii)

Sample Types:

EV = Environmental

BG = Background

WA= Inside work area during abatement

TWA= Time Weighted Average

WC= Working Clearance

FC= Final Clearance

PS = Personal

FB = Field Blank

TIDEWATER INC

6625 Selnick Drive, Suite A, Elkridge, Maryland 21075

Phone: (410)-540-8700 Fax (410)-997-8713

DAILY REPORT

CLIENT: Montgomery College (Rockville)

JOB NUMBER: 5089-016

PROJECT NAME: Physical Education bldg.

DATE: 1-29-2020

ON-SITE FROM: 0600 TO: 1630 LUNCH:_____

EXPENSES:_____

TOTAL HOURS:_____10_____ MILEAGE:_____

EMPLOYEE: Walter Gonzalez

SCOPE OF WORK:

2nd floor, Containment #1 Men's Locker Area – BARCO performs containment set up

SUMMARY OF ACTIVITIES:

(0600) Tidewater, Inc. Industrial Hygienist Walter Gonzalez (WG) arrives on-site at Montgomery College Campus at 51 Mannakee street, Rockville, MD 20850 to perform Area Air Monitoring and Asbestos Abatement air quality control. Tidewater rep. (WG) meets with BARCO supervisor Wendy Morales to discuss work activities for the shift. There are 22x workers and 1x supervisor onsite, they focus on completing ceiling tile abatement in 2nd floor, Containment #1 Men's Locker Area. BARCO will also continue containment set up throughout 1st and 2nd floors.

(0615) Tidewater IH calibrates air sampling pumps @2.0 (LPM)

(0630) Abatement workers properly suit up wearing disposable coveralls, gloves and HEPA respirators. Once suited up workers enter Containment #1, 2nd floor men's locker area and begin ceiling tile removal.

(0635) WA/ EV air samples are started for Containment #1, 2nd floor men's locker area.

(0730) Asbestos workers inside Containment #1, 2nd floor men's locker area work on bagging up remaining ceiling tiles; bags are then sealed with gray tape. Airless sprayer is closely used to keep asbestos and work area wet during this procedure.

(0830) At this moment all ceiling tiles have been removed and bagged up, BARCO now focuses on fine cleaning containment. Workers use ladders to reach ceiling level in order to clean light fixtures, metal ceiling grids, sprinkler plates and surrounding surfaces.

(0915)**BARCO continues fine cleaning Containment #1, 2nd floor men's locker area. It is observed that BARCO is not using HEPA vacuums for the fine cleaning procedure. BARCO supervisor communicates to Tidewater rep, (WG) that they are waiting for HEPA vacuums to be delivered. BARCO will continue fine cleaning Containment #1, 2nd floor men's locker area with only rags and airless sprayer.

(1000) Containment set up continues throughout 2nd floor; workers use 6 ft. ladders to reach ceiling level in order to set up critical barriers. Light fixtures and exit signs are covered with 6 mil poly critical barriers and sealed with spray glue and gray tape.

(1050) Asbestos workers exit containment following proper decontamination procedures. Used coveralls are disposed inside asbestos labeled bags, workers then wash off in shower chamber and finally get dressed into street clothing in clean room.

(1100) Break

(1200) All workers return to their designated work areas after break.

(1215) Tidewater rep. (WG) conducts final visual inspection in Containment #1, 2nd floor men's locker area. Poly walls, poly floor, metal ceiling grid, light fixtures, sprinklers, sprinkler plates and surrounding surfaces are thoroughly inspected for loose asbestos debris and ceiling tile dust. ** Containment #1, 2nd floor men's locker area has failed the final visual inspection due to discovered ceiling tile asbestos debris on metal ceiling grid edges and in sprinkler plates.

(1245) BARCO supervisor informs Tidewater rep. (WG) that HEPA vacuums will be delivered by end of the day, meanwhile they will continue to attempt fine cleaning with only rags and airless sprayer.

(1330) Workers inside Containment #1, 2nd floor men's locker area work focus on bagging out. Bags are rinsed, doubled, sealed with gray tape, passed out of containment and labeled with dated stickers.

(1415) WA/ EV air samples are collected from Containment #1, 2nd floor men's locker area.

(1500) BARCO continues containment set up on 1st and 2nd floors. Meanwhile asbestos workers inside Containment #1, 2nd floor men's locker area continue to attempt fine cleaning with only rags and airless sprayer.

(1600) Asbestos workers exit containment following proper decontamination procedures. Used coveralls are disposed inside asbestos labeled bags, workers then wash off in shower chamber and finally get dressed into street clothing in clean room.

(1630) Work areas are cleaned for the shift, trash debris are disposed in trash bags. BARCO crew departs project-site.

Tidewater IH WG performs pcm air sample analysis; results do not indicate elevated fiber concentrations.

Reviewed by:__WG_____

01-29-2020

TIDEWATER INC

TIDEWATER INC

PCM AIR SAMPLE DATA SHEET

6625 Selnick Dr., Suite A, Elkridge, MD 21075

Office: (410) 540-8700

Fax: (410) 997-8713

Project : **Physical Education bldg.**

Job – No : **5089-016**

Name : Walter Gonzalez

Client: **Montgomery College (Rockville)**

Time & Date January 30, 2020 **On-Site** 6:00am **TO** 4:30pm

Analy-On-Site YES

Sample ID	Sample Type	Rotometer Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm^2)	Fiber Conc. (f/cc)	Description & Location
WG-013020-01	WA	2.0	6:40	2.0	2.00	9:25	165	330	2	100	0	2.55	**0.003**	Inside Containment #1. 2nd floor Mens Locker Area
WG-013020-02	WA	2.0	6:40	2.0	2.00	9:25	165	330	2.5	100	0	3.18	**0.004**	Inside Containment #1. 2nd floor Mens Locker Area
WG-013020-03	EV	2.0	6:42	2.0	2.00	9:25	163	326	0	100	0	0.00	**0.000**	Outside decon Containment #1. 2nd floor Mens Locker Area
WG-013020-04	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank
WG-013020-05	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank

Containment #1, 2nd floor Mens Locker Area - BARCO works on fine cleaning

Analysis in accordance to NIOSH 7400 Method for Phase Contrast Microscopy, air sampling pumps are calibrated with rotameter # 194588-01

Key:

Analytical Constants:

Effective Collecting Filter Area = **385 mm^2**

Microscope Graticle Field Area = **0.00785 mm^2**

Filter Type = 25mm MCE, 0.8 µm pore size

Limit of Detection (LOD) = **5.5 fibers/100 fields**

Definitions of Abbreviations:

CONC. = Concentration in air sampled

LOD = Limit of detection for sample

NIOSH = National Institute for Occupational Safety & Health

NFO = No Fiber Observed.

Units of Measure:

f/cc = Fibers per cubic centimeter of air

f/mm2 = Fibers per square millimeter of filter

Lpm = Liters per minute of sampling time

min = Minutes of sampling time

General Notes:

***** - Denotes sample uncountable due to high particulate level.

****** - Denotes sample not counted due to air pump failure.

******* - Denotes sample not counted due to disturbance.

AHERA 40 CFR 763.90 (i)(2)(ii)

Sample Types:

EV = Environmental

BG = Background

WA= Inside work area during abatement

TWA= Time Weighted Average

WC= Working Clearance

FC= Final Clearance

PS = Personal

FB = Field Blank

TIDEWATER INC

6625 Selnick Drive, Suite A, Elkridge, Maryland 21075

Phone: (410)-540-8700 Fax (410)-997-8713

DAILY REPORT

CLIENT: Montgomery College (Rockville)

JOB NUMBER: 5089-016

PROJECT NAME: Physical Education bldg.

DATE: 1-30-2020

ON-SITE FROM: 0600 TO: 1630 LUNCH:_____

EXPENSES:_____

TOTAL HOURS:_____10_____ MILEAGE:_____

EMPLOYEE: Walter Gonzalez

SCOPE OF WORK:

2nd floor, Containment #1 Men's Locker Area – BARCO performs fine cleaning

SUMMARY OF ACTIVITIES:

(0600) Tidewater, Inc. Industrial Hygienist Walter Gonzalez (WG) arrives on-site at Montgomery College Campus at 51 Mannakee street, Rockville, MD 20850 to perform Area Air Monitoring and Asbestos Abatement air quality control. Tidewater rep. (WG) meets with BARCO supervisor Wendy Morales to discuss work activities for the shift. There are 22x workers and 1x supervisor onsite, they focus on completing floor tile/ mastic abatement in small area in containment entrance and fine cleaning in Containment #1, 2nd floor Men's Locker Area. BARCO will also continue containment set up throughout 1st and 2nd floors.

(0615) Tidewater IH calibrates air sampling pumps @2.0 (LPM)

(0630) Abatement workers properly suit up wearing disposable coveralls, gloves and HEPA respirators. Once suited up workers enter Containment #1, 2nd floor men's locker area and begin ceiling tile removal.

(0640) WA/ EV air samples are started for Containment #1, 2nd floor men's locker area.

(0645) Two workers focus on removing small section of floor tile located in entryway of Containment #1, 2nd floor Men's Locker Area. Handheld scrapers are used to remove small section, floor tiles are then disposed inside asbestos labeled bags and sealed with gray tape.

(0715) At this moment workers inside Containment #1, 2nd floor men's locker area focus on fine cleaning work area. HEPA vacuum is used to clean metal ceiling grid corners where most debris have accumulated throughout time, wet rags are then utilized to wipe of entire ceiling grids.

(0730) Workers inside Containment #1, 2nd floor Men's Locker Area are now abating small section of mastic adhesive with chemical mastic remover and hand held wire brushes. Rags are then used to wipe off mastic adhesive residue.

(0800) Asbestos workers inside containment continue to use HEPA vacuum to clean sprinkler plates where ceiling tile debris has accumulated. Wet rags are then carefully used to clean sprinklers and light fixtures, used rags are then disposed inside asbestos labeled bags and sealed with gray tape.

(0850) Tidewater rep. (WG) properly suits up wearing disposable coverall, gloves and HEPA respirator; once suited up (WG) conducts final visual inspection in Containment #1, 2nd floor men's locker area. Poly walls, poly floor, metal ceiling grid, light fixtures, sprinklers, sprinkler plates, cement floor at entryway and surrounding surfaces are thoroughly inspected for loose

asbestos debris, ceiling tile dust and mastic residue. Containment #1, 2nd floor men's locker area is determined to be clean after thorough visual inspection. BARCO supervisor is then informed and workers prepare for encapsulation.

(0925) WA/ EV air samples are collected from Containment #1, 2nd floor men's locker area.

(0930) 2x BARCO workers now focus on encapsulating Containment #1, 2nd floor men's locker area; airless sprayer and bucket of bridging encapsulant is then used to evenly spray all containment surfaces.

(0950) Asbestos workers exit containment following proper decontamination procedures. Used coveralls are disposed inside asbestos labeled bags, workers then wash off in shower chamber and finally get dressed into street clothing in clean room.

(1015) Containment set up continues throughout 2nd floor; workers use 6 ft. ladders to reach ceiling level in order to set up critical barriers. Light fixtures and exit signs are covered with 6 mil poly critical barriers and sealed with spray glue and gray tape.

(1100) Break

(1130) Tidewater rep. (WG) calibrates high volume air sampling pumps @ 10 (LPM)

(1200) All workers return to their designated work areas after break.

(1215) Tidewater rep. (WG) starts final clearance TEM air samples in Containment #1, 2nd floor men's locker area.

(1300) Final clearance air samples inside Containment #1, 2nd floor men's locker area are checked on to assure proper sampling reading.

(1415) Tidewater rep. (WG) collects final clearance TEM air samples from Containment #1, 2nd floor men's locker area.

(1500) Workers use 8 ft. ladders to reach ceiling level in corridor #296 where they are setting up poly walls. Poly wall seams are sealed with spray glue and gray tape in order to create tight seals, bottom edges are sealed with double side tape.

(1630) Work areas are cleaned for the shift, trash debris are disposed in trash bags. BARCO crew departs project-site.

Tidewater IH WG performs pcm air sample analysis; results do not indicate elevated fiber concentrations.

Total ACM bags = 53x

Reviewed by:__WG_____

01-30-2020

TIDEWATER INC

EXHIBIT B

ASBESTOS ABATEMENT CHECKLIST (Daily)

Building:	Physical Education bldg.	**Project**:	Montgomery College (Rockville) #5089-016
Location:	2nd floor, Containment #1 Men's Locker Area	**Date**:	01/30/2020
Removal Contractor:	. BARCO	**Time Inspected**:	06:35
Monitoring:	Walter Gonzalez (Tidewater)	**Time Removal Began**:	06:30

Inspection Category	Activity to be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine" in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓	
2. Signage	**a.** Caution signs at vestibule entry	✓		**5. Work Habits In Work Area**	**d.** No smoking **e.** No eating/drinking	✓	
	b. OSHA ASBESTOS SIGN	✓		6. **Work Practices**	a. Hammers, Saws, etc NOT in use b. Removed Material Promptly Bagged c. Debris Stored Properly	✓	
	c. Dumpster, drums and bags labeled	✓					

FIELD NOTES: (Describe any problems encountered)

NONE

EXHIBIT B

ASBESTOS ABATEMENT CHECKLIST (Daily)

Building:	Physical Education bldg.	**Project**:	Montgomery College (Rockville) #5089-016
Location:	Containment #1, 2nd floor Men's Locker	**Date**:	01/30/2020
Removal Contractor:	. BARCO	**Time Inspected**:	06:40
Monitoring:	Walter Gonzalez (Tidewater)	**Time Removal Began**:	06:30

Inspection Category	Activity to be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine" in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓	
2. Signage	**a.** Caution signs at vestibule entry	✓		**5. Work Habits In Work Area**	**d.** No smoking **e.** No eating/drinking	✓	
	b. OSHA ASBESTOS SIGN	✓		6. **Work Practices**	a. Hammers, Saws, etc NOT in use b. Removed Material Promptly Bagged c. Debris Stored Properly	✓	
	c. Dumpster, drums and bags labeled	✓					

FIELD NOTES: (Describe any problems encountered)

NONE

EXHIBIT C

FINAL INSPECTION OF ASBESTOS ABATEMENT CHECKLIST

Building:	Physical Education Bldg.	**Project**:	Montgomery College (Rockville)
Location:	Containment #1, 2nd floor Men's Locker Area	**Job No.**:	5089-016
Removal Contractor:	. BARCO	**Date:** 01-30-2020 **Time Inspected:** 08:50 **Time Completed:** 09:00	
Monitoring:	Walter Gonzalez (Tidewater)	**Analyzed On-Site**: ✓ **Laboratory:** N/A	

Inspection Category	Activity to bechecked	Within Limits	Problem Encountered	Bulk Samples: None.
1. Residual Dust on:	a. Floor	✓		
	b. Horizontal Surface	✓		FINAL AIR SAMPLING: If all other tests and situations appear to be satisfactory. The final air tests will be taken.
	c. Pipes	✓		Location: **SEE ATTACHED PCM DATA SHEET FOR DETAILS**
	d. Ventilation Equipment	✓		Volume (liters) **SEE ATTACHED PCM DATA SHEET FOR DETAILS**
	e. Vertical Surface	✓		Flow Rate (Liters/mi
	f. Ductwork	✓		Fiber/Filter
	g. Registers	✓		Fiber/cc
	h. Lights	✓		**Analyst Analyzing Sample: Walter Gonzalez DATE**: 01/30/2020
Field Notes: (Describe any problems encountered during final inspection)				
NONE				

EXHIBIT A

ASBESTOS PRE-ABATEMENT CHECKLIST

Building:	Physical Education	**Project**:	5089-016
Location:	2nd floor, Containment #2 Center Stairwell	**Date**:	01-31-2020
Removal Contractor:	BARCO	**Time Inspected**:	14:40
Monitoring:	Walter Gonzalez (Tidewater)	**Time Removal Began**:	15:15

Inspection Category	Activity to be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓ ✓ ✓	
2. Signage	a. Caution signs at vestibule entry	✓		**5. Work Habits In Work Area**	**d.** No smoking **e.** No eating/drinking	✓ ✓	
	b. OSHA ASBESTOS SIGN	✓					
	c. Dumpster, drums and bags labeled	✓					

FIELD NOTES: (Describe any problems encountered) None.

TIDEWATER INC

PCM AIR SAMPLE DATA SHEET

6625 Selnick Dr., Suite A, Elkridge, MD 21075
Office: (410) 540-8700
Fax: (410) 997-8713

Project : **Physical Education bldg.**
Job – No : **5089-016**
Name : Walter Gonzalez

Client: **Montgomery College (Rockville)**
Time & Date January 31, 2020 **On-Site** 6:00am **TO** 4:30pm
Analy-On-Site YES

Sample ID	Sample Type	Rotometer Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm^2)	Fiber Conc. (f/cc)	Description & Location
WG-013120-01	WA	2.5	15:10	2.5	2.50	16:15	65	163	0	100	0	0.00	**0.000**	Inside Containment #2, 2nd floor Center Stairwell
WG-013120-02	WA	2.5	15:10	2.5	2.50	16:15	65	163	1	100	0	1.27	**0.003**	Inside Containment #2, 2nd floor Center Stairwell
WG-013120-03	EV	2.5	15:10	2.5	2.50	16:15	65	163	0	100	0	0.00	**0.000**	Outside decon Containment #2, 2nd floor Center Stairwell
WG-013120-04	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank
WG-013120-05	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank

Containment #2, 2nd floor Center Stairwell - BARCO works on fine cleaning

Analysis in accordance to NIOSH 7400 Method for Phase Contrast Microscopy, air sampling pumps are calibrated with rotameter # 194588-01

Key:

Analytical Constants:

Effective Collecting Filter Area = **385 mm^2**
Microscope Graticle Field Area = **0.00785 mm^2**
Filter Type = 25mm MCE, 0.8 µm pore size
Limit of Detection (LOD) = **5.5 fibers/100 fields**

Definitions of Abbreviations:

CONC. = Concentration in air sampled
LOD = Limit of detection for sample
NIOSH = National Institute for Occupational Safety & Health
NFO = No Fiber Observed.

Units of Measure:

f/cc = Fibers per cubic centimeter of air
f/mm2 = Fibers per square millimeter of filter
Lpm = Liters per minute of sampling time
min = Minutes of sampling time

General Notes:

* - Denotes sample uncountable due to high particulate level.
** - Denotes sample not counted due to air pump failure.
*** - Denotes sample not counted due to disturbance.
AHERA 40 CFR 763.90 (i)(2)(ii)

Sample Types:

EV = Environmental
BG = Background
WA= Inside work area during abatement
TWA= Time Weighted Average
WC= Working Clearance
FC= Final Clearance
PS = Personal
FB = Field Blank

TIDEWATER INC

6625 Selnick Drive, Suite A, Elkridge, Maryland 21075

Phone: (410)-540-8700 Fax (410)-997-8713

DAILY REPORT

CLIENT: Montgomery College (Rockville)

JOB NUMBER: 5089-016

PROJECT NAME: Physical Education bldg.

DATE: 1-31-2020

ON-SITE FROM: 0600 TO: 1630 LUNCH:_____

EXPENSES:_____

TOTAL HOURS:_____10_____ MILEAGE:_____

EMPLOYEE: Walter Gonzalez

SCOPE OF WORK:

2nd floor, Containment #2, Center Stairwell – BARCO performs containment set up

SUMMARY OF ACTIVITIES:

(0600) Tidewater, Inc. Industrial Hygienist Walter Gonzalez (WG) arrives on-site at Montgomery College Campus at 51 Mannakee street, Rockville, MD 20850 to perform Area Air Monitoring and Asbestos Abatement air quality control. Tidewater rep. (WG) meets with BARCO supervisor Wendy Morales to discuss work activities for the shift. There are 23x workers and 1x supervisor onsite, they will continue containment set up on 2nd floors, Containment #2, Center Stairwell. BARCO supervisor will have workers focus on setting up men's locker room area in order for them to begin abatement today.

(0700) Workers use 8 ft. ladders to reach ceiling level in order to hang poly walls. Poly wall seams are sealed with spray glue and gray tape in order to create tight seals, bottom edges are sealed with double side tape.

(0800) Critical 6 mil poly barriers are set up on light fixtures to avoid contamination during abatement. Exit signs are also being covered in the same manner.

(0900) Double layer critical barriers are set up on double doors located on hallways, this is done to isolate the work area. Spray glue and gray tape are used on edges in order to create tight seals.

(1000) BARCO works on setting down 6 mil poly floors in work areas where poly walls have already been set up. Floor edges are sealed where wall meets; spray glue and gray tape are used in order to create tight seals.

(1100) Break

(1200) All workers return to their designated work areas after break.

(1245) Workers bring in shower chamber and microtraps to 2nd floor where containment #1 is currently being set up. Poly flex ducts are attached to microtraps with gray tape and exhausted out through double doors. Microtrap opening will remain sealed until abatement begins.

(1330) At this moment three stage decontamination unit is being set up in Containment #2, 2nd floor Center Stairwell. Each chamber is divided with double layer crossed poly curtains; each chamber is attached with spray glue and gray tape. Water hose is connected to faucet located in varsity showers and fastened to shower chamber.

(1440) Tidewater rep. (WG) conducts pre-abatement visual inspection. Poly walls, poly floor, critical poly barriers, microtraps, airless sprayer, HEPA vacuums, three stage decontamination chamber, water and OSHA/ caution signs are all in compliance with regulations. BARCO supervisor Wendy Morales is given approval to begin abatement.

(1510) WA/ EV air samples are started for Containment #2, 2nd floor Center Stairwell.

(1515) Abatement workers properly suit up wearing disposable coveralls, gloves and HEPA respirators. Once suited up workers enter Containment #2, 2nd floor Center Stairwell and begin ceiling tile removal.

(1530) Workers inside Containment #2, 2nd floor Center Stairwell use 8 ft ladders to reach ceiling level. Ceiling tiles are taken down from metal grids in whole sections as much as possible. Airless sprayer is closely used to keep asbestos and containment surfaces wet with amended water.

(1600) BARCO abatement workers focus on bagging up ceiling tiles that have been removed. Ceiling tiles are kept wet and then disposed inside asbestos labeled bags and sealed with gray tape.

(1615) WA/ EV air samples are collected from Containment #2, 2nd floor Center Stairwell.

(1620) Asbestos workers exit Containment #2, 2nd floor Center Stairwell following proper decontamination procedures. Used coveralls are disposed inside asbestos labeled bags, workers then wash off in shower and finally get dressed into street clothing in clean room.

(1630) Work areas are cleaned for the shift, trash debris are disposed in trash bags. BARCO crew departs project-site.

Tidewater IH WG performs pcm air sample analysis; results do not indicate elevated fiber concentrations.

Reviewed by:__WG_____

01-31-2020

TIDEWATER INC

TIDEWATER INC

PCM AIR SAMPLE DATA SHEET

6625 Selnick Dr., Suite A, Elkridge, MD 21075

Office: (410) 540-8700

Fax: (410) 997-8713

Project : **Physical Education bldg.**

Job – No : **5089-016**

Name : Walter Gonzalez

Client: **Montgomery College (Rockville)**

Time & Date February 1, 2020 **On-Site** 6:00am **TO** 2:30pm

Analy-On-Site YES

Sample ID	Sample Type	Rotometer Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm^2)	Fiber Conc. (f/cc)	Description & Location
WG-020120-01	WA	2.0	6:42	2.0	2.00	13:15	393	786	10.5	100	0	13.38	**0.007**	Inside Containment #1. 2nd floor Center Stairwell
WG-020120-02	WA	2.0	6:42	2.0	2.00	13:15	393	786	13	100	0	16.56	**0.008**	Inside Containment #1. 2nd floor Center Stairwell
WG-020120-03	EV	2.0	6:40	2.0	2.00	13:16	396	792	2	100	0	2.55	**0.001**	Outside decon Containment #1. 2nd floor Center Stairwell
WG-020120-04	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank
WG-020120-05	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank

Containment #2, 2nd floor Center Stairwell - BARCO works on ceiling tile abatement

Analysis in accordance to NIOSH 7400 Method for Phase Contrast Microscopy, air sampling pumps are calibrated with rotameter # 194588-01

Key:

Analytical Constants:

Effective Collecting Filter Area = **385 mm^2**

Microscope Graticle Field Area = **0.00785 mm^2**

Filter Type = 25mm MCE, 0.8 µm pore size

Limit of Detection (LOD) = **5.5 fibers/100 fields**

Definitions of Abbreviations:

CONC. = Concentration in air sampled

LOD = Limit of detection for sample

NIOSH = National Institute for Occupational Safety & Health

NFO = No Fiber Observed.

Units of Measure:

f/cc = Fibers per cubic centimeter of air

f/mm2 = Fibers per square millimeter of filter

Lpm = Liters per minute of sampling time

min = Minutes of sampling time

General Notes:

***** - Denotes sample uncountable due to high particulate level.

****** - Denotes sample not counted due to air pump failure.

******* - Denotes sample not counted due to disturbance.

AHERA 40 CFR 763.90 (i)(2)(ii)

Sample Types:

EV = Environmental

BG = Background

WA= Inside work area during abatement

TWA= Time Weighted Average

WC= Working Clearance

FC= Final Clearance

PS = Personal

FB = Field Blank

TIDEWATER INC

6625 Selnick Drive, Suite A, Elkridge, Maryland 21075

Phone: (410)-540-8700 Fax (410)-997-8713

DAILY REPORT

CLIENT: Montgomery College (Rockville)

JOB NUMBER: 5089-016

PROJECT NAME: Physical Education bldg.

DATE: 2-1-2020

ON-SITE FROM: 0600 TO: 1630 LUNCH:_____

EXPENSES:_____

TOTAL HOURS:_____10_____ MILEAGE:_____

EMPLOYEE: Walter Gonzalez

SCOPE OF WORK:

2nd floor, Containment #2, Center Stairwell – BARCO performs ceiling tile abatement

SUMMARY OF ACTIVITIES:

(0600) Tidewater, Inc. Industrial Hygienist Walter Gonzalez (WG) arrives on-site at Montgomery College Campus at 51 Mannakee street, Rockville, MD 20850 to perform Area Air Monitoring and Asbestos Abatement air quality control. Tidewater rep. (WG) meets with BARCO supervisor Wendy Morales to discuss work activities for the shift. There are 22x workers and 1x supervisor onsite, they focus on ceiling tile abatement in 2nd floor, Containment #2 Center Stairwell.

(0615) Tidewater IH calibrates air sampling pumps @2.0 (LPM)

(0630) Asbestos workers properly suit up wearing disposable coveralls, gloves and HEPA respirators. Once suited up workers enter 2nd floor, Containment #2, Center Stairwell and begin ceiling tile removal.

(0640) WA/ EV air samples are started for 2nd floor, Containment #2, Center Stairwell.

(0645) BARCO works on repairing a couple wall edges that have come loose overnight. Spray glue and gray tape are used reinforce poly wall.

(0730) Workers inside 2nd floor, Containment #2, Center Stairwell use 6 ft ladders to reach ceiling level. Airless sprayer is closely used to keep ACM and containment wet with amended water, this is done to avoid dusty conditions and to minimize airborne fibers.

(0830) BARCO abatement workers work as a team to remove ceiling tiles in whole sections when possible. Workers on ladders loosen ceiling tiles, remove ceiling tiles and pass them down to workers that are on the ground. Workers on the ground then dispose ceiling tiles inside asbestos labeled bags, bags are then sealed with gray.

(0915) Workers inside 2nd floor, Containment #2, Center Stairwell continue ceiling tile removal. Removed ceiling tiles are promptly disposed inside asbestos labeled bags. Asbestos bags are taken closer to containment exit by stairwell.

(1000) Containment set up continues throughout 2nd floor offices by corridor #298 and dance studio #217; workers use 8 ft. ladders to reach ceiling level in order to set up critical barriers. Light fixtures and exit signs are covered with 6 mil poly critical barriers and sealed with spray glue and gray tape.

(1050) Asbestos workers exit containment following proper decontamination procedures. Used coveralls are disposed inside asbestos labeled bags, workers then wash off in shower chamber and finally get dressed into street clothing in clean room.

(1100) Break

(1200) All workers return to their designated work areas after break.

(1205) Asbestos workers properly suit up wearing disposable coveralls, gloves and HEPA respirators. Once suited up workers enter 2nd floor, Containment #2, Center Stairwell and continue ceiling tile removal.

(1230) BARCO replaces old microtrap pre-filters. Old filters are disposed inside asbestos labeled bags and are then sealed with gray tape.

(1315) WA/ EV air samples are collected from 2nd floor, Containment #2, Center Stairwell.

(1345) At this moment all ceiling tiles have been removed and bagged up, BARCO now focuses on fine cleaning containment. Workers use ladders to reach ceiling level in order to clean light fixtures, metal ceiling grids, sprinkler plates and surrounding surfaces.

(1400) Asbestos workers exit containment following proper decontamination procedures. Used coveralls are disposed inside asbestos labeled bags, workers then wash off in shower chamber and finally get dressed into street clothing in clean room.

(1430) Work areas are cleaned for the shift, trash debris are disposed in trash bags. BARCO crew departs project-site.

Tidewater IH WG performs pcm air sample analysis; results do not indicate elevated fiber concentrations.

Reviewed by:__WG_____

02-01-2020

TIDEWATER INC

EXHIBIT B

ASBESTOS ABATEMENT CHECKLIST (Daily)

Building:	Physical Education bldg.	**Project**:	Montgomery College (Rockville) #5089-016
Location:	2nd floor, Containment #2 Center Stairwell	**Date**:	02/01/2020
Removal Contractor:	. BARCO	**Time Inspected**:	06:40
Monitoring:	Walter Gonzalez (Tidewater)	**Time Removal Began**:	06:30

Inspection Category	Activity to be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine" in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓	
2. Signage	**a.** Caution signs at vestibule entry	✓		**5. Work Habits In Work Area**	**d.** No smoking **e.** No eating/drinking	✓	
	b. OSHA ASBESTOS SIGN	✓		6. **Work Practices**	a. Hammers, Saws, etc NOT in use b. Removed Material Promptly Bagged c. Debris Stored Properly	✓	
	c. Dumpster, drums and bags labeled	✓					

FIELD NOTES: (Describe any problems encountered)

NONE

TIDEWATER INC

6625 Selnick Dr., Suite A, Elkridge, MD 21075

Office: (410) 540-8700
Fax: (410) 997-8713

PCM AIR SAMPLE DATA SHEET

Project : **Physical Education bldg.**
Job – No : **5089-016**
Name : Walter Gonzalez

Client: **Montgomery College (Rockville)**
Time & Date February 2, 2020 **On-Site** 6:00am **TO** 2:30pm
Analy-On-Site YES

Sample ID	Sample Type	Rotometer Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm^2)	Fiber Conc. (f/cc)	Description & Location
WG-020220-01	WA	2.0	6:42	2.0	2.00	13:10	388	776	8	100	0	10.19	**0.005**	Inside Containment #2, 2nd floor Center Stairwell
WG-020220-02	WA	2.0	6:42	2.0	2.00	13:10	388	776	6	100	0	7.64	**0.004**	Inside Containment #2, 2nd floor Center Stairwell
WG-020220-03	EV	2.0	6:40	2.0	2.00	13:10	390	780	2	100	0	2.55	**0.001**	Outside decon Containment #2, 2nd floor Center Stairwell
WG-020220-04	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank
WG-020220-05	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank

Containment #2, 2nd floor Center Stairwell - BARCO works on fine cleaning and bagging out

Analysis in accordance to NIOSH 7400 Method for Phase Contrast Microscopy, air sampling pumps are calibrated with rotameter # 194588-01

Key:

Analytical Constants:

Effective Collecting Filter Area = **385 mm^2**
Microscope Graticle Field Area = **0.00785 mm^2**
Filter Type = 25mm MCE, 0.8 µm pore size
Limit of Detection (LOD) = **5.5 fibers/100 fields**

Definitions of Abbreviations:

CONC. = Concentration in air sampled
LOD = Limit of detection for sample
NIOSH = National Institute for Occupational Safety & Health
NFO = No Fiber Observed.

Units of Measure:

f/cc = Fibers per cubic centimeter of air
f/mm2 = Fibers per square millimeter of filter
Lpm = Liters per minute of sampling time
min = Minutes of sampling time

General Notes:

* - Denotes sample uncountable due to high particulate level.
** - Denotes sample not counted due to air pump failure.
*** - Denotes sample not counted due to disturbance.
AHERA 40 CFR 763.90 (i)(2)(ii)

Sample Types:

EV = Environmental
BG = Background
WA= Inside work area during abatement
TWA= Time Weighted Average
WC= Working Clearance
FC= Final Clearance
PS = Personal
FB = Field Blank

TIDEWATER INC

6625 Selnick Drive, Suite A, Elkridge, Maryland 21075

Phone: (410)-540-8700 Fax (410)-997-8713

DAILY REPORT

CLIENT: Montgomery College (Rockville)

JOB NUMBER: 5089-016

PROJECT NAME: Physical Education bldg.

DATE: 2-2-2020

ON-SITE FROM: 0600 TO: 1430 LUNCH:_____

EXPENSES:_____

TOTAL HOURS:_____8_____ MILEAGE:_____

EMPLOYEE: Walter Gonzalez

SCOPE OF WORK:

2nd floor, Containment #2, Center Stairwell – BARCO performs fine cleaning and bag out

SUMMARY OF ACTIVITIES:

(0600) Tidewater, Inc. Industrial Hygienist Walter Gonzalez (WG) arrives on-site at Montgomery College Campus at 51 Mannakee street, Rockville, MD 20850 to perform Area Air Monitoring and Asbestos Abatement air quality control. Tidewater rep. (WG) meets with BARCO supervisor Wendy Morales to discuss work activities for the shift. There are 22x workers and 1x supervisor onsite, they focus on fine cleaning and bagging out in 2nd floor, Containment #2 Center Stairwell.
(0615) Tidewater IH calibrates air sampling pumps @2.0 (LPM)
(0625) Asbestos workers properly suit up wearing disposable coveralls, gloves and HEPA respirators. Once suited up workers enter 2nd floor, Containment #2, Center Stairwell and begin ceiling tile removal.
(0640) WA/ EV air samples are started for 2nd floor, Containment #2, Center Stairwell.
(0645) BARCO works on repairing a couple wall edges that have come loose overnight. Spray glue and gray tape are used reinforce poly wall.
(0730) Workers inside 2nd floor, Containment #2, Center Stairwell use 6 ft ladders to reach ceiling level. Airless sprayer is closely used to keep ACM and containment wet with amended water, this is done to avoid dusty conditions and to minimize airborne fibers.
(0830) At this moment workers mainly focus on bagging out from 2nd floor, Containment #2, Center Stairwell. Asbestos filled bags are double bagged, rinsed, labeled with dated stickers, passed out of containment and hauled to BARCO enclosed vehicle.
(0900) Asbestos workers inside 2nd floor, Containment #2, Center Stairwell work on bagging up remaining ceiling tiles; bags are then sealed with gray tape. Airless sprayer is closely used to keep asbestos and work area wet during this procedure.
(0915) At this moment all ceiling tiles have been removed and bagged up, BARCO focuses on fine cleaning containment. Workers use ladders to reach ceiling level in order to clean light fixtures, metal ceiling grids, sprinkler plates and surrounding surfaces.
(1015) BARCO continues fine cleaning 2nd floor, Containment #2, Center Stairwell. BARCO is using HEPA vacuums for the fine cleaning procedure. Workers first vacuum grids/ surrounding surfaces, then airless sprayer is used to wash down surfaces and finally workers use rags to wipe down grids/ surrounding surfaces.

(1050) Asbestos workers exit containment following proper decontamination procedures. Used coveralls are disposed inside asbestos labeled bags, workers then wash off in shower chamber and finally get dressed into street clothing in clean room.
(1100) Break
(1200) All workers return to their designated work areas after break. Asbestos workers properly suit up wearing disposable coveralls, gloves and HEPA respirators; once suited up workers enter 2nd floor, Containment #2, Center Stairwell and focus on fine cleaning.
(1230) BARCO works on completing bagging out from 2nd floor, Containment #2, Center Stairwell. Asbestos filled bags continue to be properly double bagged and hauled out of work area.
(1310) WA/ EV air samples are collected from Containment #1, 2nd floor men's locker area.
(1315) Tidewater rep. (WG) properly suits up wearing required PPE and conducts final visual inspection in 2nd floor, Containment #2, Center Stairwell. Poly walls, poly floor, metal ceiling grid, light fixtures, sprinklers, sprinkler plates and surrounding surfaces are thoroughly inspected for loose asbestos debris and ceiling tile dust. 2nd floor, Containment #2, Center Stairwell is considered to be clean after visual inspection and BARCO supervisor Wendy Morales is given approval for encapsulation.
(1350) Two asbestos workers focus on encapsulating 2nd floor, Containment #2, Center Stairwell. Airless sprayer and 5-gallon bucket of bridging encapsulant are used to lock down any loose fibers. All containment surfaces and open space above drop ceiling are evenly sprayed.
(1410) Asbestos workers exit containment following proper decontamination procedures. Used coveralls are disposed inside asbestos labeled bags, workers then wash off in shower chamber and finally get dressed into street clothing in clean room.
(1430) Work areas are cleaned for the shift, trash debris are disposed in trash bags. BARCO crew departs project-site.
Tidewater IH WG performs pcm air sample analysis; results do not indicate elevated fiber concentrations.

Total ACM bags = 750x

Reviewed by:__WG_____
02-02-2020

TIDEWATER INC

EXHIBIT B

ASBESTOS ABATEMENT CHECKLIST (Daily)

Building:	Physical Education bldg.	**Project**:	Montgomery College (Rockville) #5089-016
Location:	2nd floor, Containment #2 Center Stairwell	**Date**:	02/02/2020
Removal Contractor:	. BARCO	**Time Inspected**:	06:40
Monitoring:	Walter Gonzalez (Tidewater)	**Time Removal Began**:	06:30

Inspection Category	Activity to be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine" in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓	
2. Signage	**a.** Caution signs at vestibule entry	✓		**5. Work Habits In Work Area**	**d.** No smoking **e.** No eating/drinking	✓	
	b. OSHA ASBESTOS SIGN	✓		6. **Work Practices**	a. Hammers, Saws, etc NOT in use b. Removed Material Promptly Bagged c. Debris Stored Properly	✓	
	c. Dumpster, drums and bags labeled	✓					

FIELD NOTES: (Describe any problems encountered)

NONE

EXHIBIT C

FINAL INSPECTION OF ASBESTOS ABATEMENT CHECKLIST

Building:	Physical Education Bldg.	**Project**:	Montgomery College (Rockville)
Location:	2nd floor, Containment #2 Center Stairwell	**Job No.**:	5089-016
Removal Contractor:	BARCO	**Date:** 02-02-2020 **Time Inspected:** 13:15 **Time Completed:** 13:50	
Monitoring:	Walter Gonzalez (Tidewater)	**Analyzed On-Site**: N/A **Laboratory:** ✓	

Inspection Category	Activity to bechecked	Within Limits	Problem Encountered	Bulk Samples: None.
1. Residual Dust on:	a. Floor	✓		
	b. Horizontal Surface	✓		FINAL AIR SAMPLING: If all other tests and situations appear to be satisfactory. The final air tests will be taken.
	c. Pipes	✓		Location: **SEE ATTACHED PCM DATA SHEET FOR DETAILS**
	d. Ventilation Equipment	✓		Volume (liters) **SEE ATTACHED PCM DATA SHEET FOR DETAILS**
	e. Vertical Surface	✓		Flow Rate (Liters/mi
	f. Ductwork	✓		Fiber/Filter
	g. Registers	✓		Fiber/cc
	h. Lights	✓		**Analyst Analyzing Sample: EMSL DATE**: 02/02/2020
Field Notes: (Describe any problems encountered during final inspection)				
NONE				

EXHIBIT A

ASBESTOS PRE-ABATEMENT CHECKLIST

Building:	Physical Education	**Project**:	5089-016
Location:	2nd floor, Containment #3, Corridor #298/ #299 area	**Date**:	02-03-2020
Removal Contractor:	BARCO	**Time Inspected**:	12:45
Monitoring:	Walter Gonzalez (Tidewater)	**Time Removal Began**:	13:10

Inspection Category	Activity to be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓ ✓ ✓	
2. Signage	a. Caution signs at vestibule entry	✓		**5. Work Habits In Work Area**	**d.** No smoking **e.** No eating/drinking	✓ ✓	
	b. OSHA ASBESTOS SIGN	✓					
	c. Dumpster, drums and bags labeled	✓					

FIELD NOTES: (Describe any problems encountered) None.

TIDEWATER INC

6625 Selnick Dr., Suite A, Elkridge, MD 21075

Office: (410) 540-8700
Fax: (410) 997-8713

PCM AIR SAMPLE DATA SHEET

Project : **Physical Education bldg.**
Job – No : **5089-016**
Name : Walter Gonzalez

Client: **Montgomery College (Rockville)**
Time & Date February 3, 2020 **On-Site** 6:00am **TO** 4:30pm
Analy-On-Site YES

Sample ID	Sample Type	Rotometer Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm^2)	Fiber Conc. (f/cc)	Description & Location
WG-020320-01	WA	2.0	14:05	2.0	2.00	16:10	125	250	1	100	0	1.27	**0.002**	Inside Containment #3, 2nd floor Corridors #298/ #299 area
WG-020320-02	WA	2.0	14:05	2.0	2.00	16:10	125	250	1	100	0	1.27	**0.002**	Inside Containment #3, 2nd floor Corridors #298/ #299 area
WG-020320-03	EV	2.0	14:05	2.0	2.00	16:10	125	250	0	100	0	0.00	**0.000**	Outside decon Containment #3, 2nd floor Corridors #298/ #299 area
WG-020320-04	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank
WG-020320-05	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank

Containment #3, 2nd floor Corridors #298/ #299 area - BARCO works on ceiling tile and glovebag abatement

Analysis in accordance to NIOSH 7400 Method for Phase Contrast Microscopy, air sampling pumps are calibrated with rotameter # 194588-01

Key:

Analytical Constants:

Effective Collecting Filter Area = **385 mm^2**
Microscope Graticle Field Area = **0.00785 mm^2**
Filter Type = 25mm MCE, 0.8 µm pore size
Limit of Detection (LOD) = **5.5 fibers/100 fields**

Definitions of Abbreviations:

CONC. = Concentration in air sampled
LOD = Limit of detection for sample
NIOSH = National Institute for Occupational Safety & Health
NFO = No Fiber Observed.

Units of Measure:

f/cc = Fibers per cubic centimeter of air
f/mm2 = Fibers per square millimeter of filter
Lpm = Liters per minute of sampling time
min = Minutes of sampling time

General Notes:

* - Denotes sample uncountable due to high particulate level.
** - Denotes sample not counted due to air pump failure.
*** - Denotes sample not counted due to disturbance.
AHERA 40 CFR 763.90 (i)(2)(ii)

Sample Types:

EV = Environmental
BG = Background
WA= Inside work area during abatement
TWA= Time Weighted Average
WC= Working Clearance
FC= Final Clearance
PS = Personal
FB = Field Blank

TIDEWATER INC

6625 Selnick Drive, Suite A, Elkridge, Maryland 21075

Phone: (410)-540-8700 Fax (410)-997-8713

DAILY REPORT

CLIENT: Montgomery College (Rockville)

JOB NUMBER: 5089-016

PROJECT NAME: Physical Education bldg.

DATE: 2-3-2020

ON-SITE FROM: 0600 TO: 1630 LUNCH:_____

EXPENSES:_____

TOTAL HOURS:_____10_____ MILEAGE:_____

EMPLOYEE: Walter Gonzalez

SCOPE OF WORK:

Containment #2, 2nd floor, Center Stairwell – Tidewater performs final TEM sampling

Containment #3, 2nd floor Corridors #298/ #299 – BARCO performs containment set up

SUMMARY OF ACTIVITIES:

(0600) Tidewater, Inc. Industrial Hygienist Walter Gonzalez (WG) arrives on-site at Montgomery College Campus at 51 Mannakee street, Rockville, MD 20850 to perform Area Air Monitoring and Asbestos Abatement air quality control. Tidewater rep. (WG) meets with BARCO supervisor Wendy Morales to discuss work activities for the shift. There are 22x workers and 1x supervisor onsite, they focus on setting up Containment #3, 2nd floor Corridors #298/ #299. Tidewater rep. (WG) will conduct TEM final clearance air sampling in Containment #2, 2nd floor, Center Stairwell .

(0605) Tidewater IH calibrates high volume air sampling pumps @ 10 (LPM)

(0615) Final clearance TEM air samples are started in Containment #2, 2nd floor, Center Stairwell.

(0700) BARCO works on setting up critical poly barriers on power outlets and electronic device attached to ceiling. 6 mil poly is used to cover electronics and spray glue/ tape are used to create tight seals.

(0715) Tidewater rep. (WG) checks on air sampling equipment in Containment #2, 2nd floor, Center Stairwell to assure proper analysis.

(0730) Double layer critical barriers are set up on double doors located on hallways, this is done to isolate the work area. Spray glue and gray tape are used on edges in order to create tight seals.

(0815) Final clearance TEM air samples are collected from Containment #2, 2nd floor, Center Stairwell.

(0900) Critical 6 mil poly barriers are set up on light fixtures to avoid contamination during abatement. Exit signs are also being covered in the same manner.

(0915) MDE is onsite discussing work practices and proper TSI elbow fitting abatement via glove bag method. BARCO is approved to abate TSI fitting using glove bags.

(1000) Microtrap negative air machines are brought into work area located in Containment #3, 2nd floor Corridors #298/ #299. Poly flex ducts are attached to microtraps with gray tape and poly flex ducts are then exhausted out through double doors.

(1055) Work areas being set up are cleaned up before workers take their lunch.

(1100) Break

(1200) All workers return to their designated work areas after break.

(1245) At this moment three stage decontamination unit is being set up in Containment #3, 2nd floor Corridors #298/ #299. Each chamber is divided with double layer crossed poly curtains; each chamber is attached with spray glue and gray tape. Water hose is connected to faucet located in varsity showers and fastened to shower chamber.

(1330) Tidewater rep. (WG) conducts pre-abatement visual inspection in Containment #3, 2nd floor Corridors #298/ #299. Poly walls, poly floor, critical poly barriers, microtraps, airless sprayer, HEPA vacuums, three stage decontamination chamber, water and OSHA/ caution signs are all in compliance with regulations. BARCO supervisor Wendy Morales is given approval to begin abatement.

(1405) WA/ EV air samples are collected from Containment #3, 2nd floor Corridors #298/ #299.

(1410) Abatement workers properly suit up wearing disposable coveralls, gloves and HEPA respirators. Once suited up workers enter Containment #3, 2nd floor Corridors #298/ #299 and begin ceiling tile removal.

(1445) Workers inside Containment #3, 2nd floor Corridors #298/ #299 use 6 ft ladders to reach ceiling level. Airless sprayer is closely used to keep ACM and containment wet with amended water, this is done to avoid dusty conditions and to minimize airborne fibers.

(1530) Workers inside Containment #3, 2nd floor Corridors #298/ #299 use 8 ft ladders to reach ceiling level. Ceiling tiles are taken down from metal grids in whole sections as much as possible. Airless sprayer is closely used to keep asbestos and containment surfaces wet with amended water.

(1610) WA/ EV air samples are collected from Containment #3, 2nd floor Corridors #298/ #299.

(1615) Asbestos workers exit containment following proper decontamination procedures. Used coveralls are disposed inside asbestos labeled bags, workers then wash off in shower chamber and finally get dressed into street clothing in clean room.

(1630) Work areas are cleaned for the shift, trash debris are disposed in trash bags. BARCO crew departs project-site. Tidewater IH WG performs pcm air sample analysis; results do not indicate elevated fiber concentrations.

Reviewed by:__WG_____

02-03-2020

TIDEWATER INC

EXHIBIT A

ASBESTOS PRE-ABATEMENT CHECKLIST

Building:	Physical Education	**Project**:	5089-016
Location:	Containment #5, Storage rm #143	**Date**:	02-04-2020
Removal Contractor:	BARCO	**Time Inspected**:	15:50
Monitoring:	Walter Gonzalez (Tidewater)	**Time Removal Began**:	02-05-2020

Inspection Category	Activity to be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓ ✓ ✓	
2. Signage	a. Caution signs at vestibule entry	✓		**5. Work Habits In Work Area**	**d.** No smoking **e.** No eating/drinking	✓ ✓	
	b. OSHA ASBESTOS SIGN	✓					
	c. Dumpster, drums and bags labeled	✓					

FIELD NOTES: (Describe any problems encountered) None.

TIDEWATER INC

6625 Selnick Dr., Suite A, Elkridge, MD 21075

Office: (410) 540-8700
Fax: (410) 997-8713

PCM AIR SAMPLE DATA SHEET

Project : **Physical Education bldg.**
Job – No : **5089-016**
Name : Walter Gonzalez

Client: **Montgomery College (Rockville)**
Time & Date February 4, 2020 **On-Site** 6:00am **TO** 4:30pm
Analy-On-Site YES

Sample ID	Sample Type	Rotometer Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm^2)	Fiber Conc. (f/cc)	Description & Location
WG-020420-01	WA	2.0	6:30	2.0	2.00	14:25	475	950	13	100	0	16.56	**0.007**	Inside Containment #3, Corridors #298/ #299
WG-020420-02	WA	2.0	6:30	2.0	2.00	14:25	475	950	9	100	0	11.46	**0.005**	Inside Containment #3, Corridors #298/ #299
WG-020420-03	EV	2.0	6:30	2.0	2.00	14:25	475	950	1.5	100	0	1.91	**0.001**	Outside decon Containment #3, Corridors #298/ #299
WG-020420-04	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank
WG-020420-05	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank

Containment #3, Corridors #298/ #299 - BARCO works on ceiling tile abatement and fine cleaning

Analysis in accordance to NIOSH 7400 Method for Phase Contrast Microscopy, air sampling pumps are calibrated with rotameter # 194588-01

Key:

Analytical Constants:

Effective Collecting Filter Area = **385 mm^2**
Microscope Graticle Field Area = **0.00785 mm^2**
Filter Type = 25mm MCE, 0.8 µm pore size
Limit of Detection (LOD) = **5.5 fibers/100 fields**

Definitions of Abbreviations:

CONC. = Concentration in air sampled
LOD = Limit of detection for sample
NIOSH = National Institute for Occupational Safety & Health
NFO = No Fiber Observed.

Units of Measure:

f/cc = Fibers per cubic centimeter of air
f/mm2 = Fibers per square millimeter of filter
Lpm = Liters per minute of sampling time
min = Minutes of sampling time

General Notes:

* - Denotes sample uncountable due to high particulate level.
** - Denotes sample not counted due to air pump failure.
*** - Denotes sample not counted due to disturbance.
AHERA 40 CFR 763.90 (i)(2)(ii)

Sample Types:

EV = Environmental
BG = Background
WA= Inside work area during abatement
TWA= Time Weighted Average
WC= Working Clearance
FC= Final Clearance
PS = Personal
FB = Field Blank

TIDEWATER INC

6625 Selnick Drive, Suite A, Elkridge, Maryland 21075

Phone: (410)-540-8700 Fax (410)-997-8713

DAILY REPORT

CLIENT: Montgomery College (Rockville)

JOB NUMBER: 5089-016

PROJECT NAME: Physical Education bldg.

DATE: 2-4-2020

ON-SITE FROM: 0600 TO: 1630 LUNCH:_____

EXPENSES:_____

TOTAL HOURS:_____10_____ MILEAGE:_____

EMPLOYEE: Walter Gonzalez

SCOPE OF WORK:

Containment #3, 2nd floor Corridors #298/ #299 – BARCO performs ceiling tile abatement

Containment #5, Storage rm #143 – BARCO performs glovebag set up

Containment #6, Mech. Rm #238A – BARCO performs containment set up

SUMMARY OF ACTIVITIES:

(0600) Tidewater, Inc. Industrial Hygienist Walter Gonzalez (WG) arrives on-site at Montgomery College Campus at 51 Mannakee street, Rockville, MD 20850 to perform Area Air Monitoring and Asbestos Abatement air quality control. Tidewater rep. (WG) meets with BARCO supervisor Wendy Morales to discuss work activities for the shift. There are 21x workers and 1x supervisor onsite, they focus on ceiling tile abatement and clean up in Containment #3, 2nd floor Corridors #298/ #299; work area set up in 2nd floor Mech. Rm #238A and glovebag set up in Storage rm #143 by.

(0610) Tidewater IH calibrates air sampling pumps @2.0 (LPM)

(0625) Asbestos workers properly suit up wearing disposable coveralls, gloves and HEPA respirators. Once suited up workers enter Containment #3, 2nd floor Corridors #298/ #299 and continue ceiling tile removal.

(0630) WA/ EV air samples are started for Containment #3, 2nd floor Corridors #298/ #299.

(0700) Asbestos workers focus on abating TSI fittings inside mechanical rm #217A located in Containment #3, 2nd floor Corridors #298/ #299. Workers abate elbow fittings using glovebag method. ACM is kept wet and contained in order minimize cross contamination.

(0800) Workers inside Containment #3, 2nd floor Corridors #298/ #299 continue ceiling tile removal. Removed ceiling tiles are promptly disposed inside asbestos labeled bags. Asbestos bags are taken closer to containment exit by stairwell.

(0900) BARCO now works on evacuating ACM bags from Containment #3, 2nd floor Corridors #298/ #299. Asbestos filled bags are rinsed, doubled, sealed with gray tape, passed out of containment, labeled with dated stickers and then loaded into asbestos trailer parked in the rear of P.E bldg.

(1000) At this moment all ceiling tiles have been successfully removed and bagged up in Containment #3, 2nd floor Corridors #298/ #299. Workers now begin fine cleaning entire containment; HEPA vacuums are used to clean metal ceiling grids, light fixtures and surrounding surfaces.

(1030) 6 mil glovebags are being set up in Containment #5, Storage rm #143. There is a total of 37x elbow fittings that will be abated in this area, BARCO will also work on cleaning debris.

(1050) Asbestos workers exit containment following proper decontamination procedures. Used coveralls are disposed inside asbestos labeled bags, workers then wash off in shower chamber and finally get dressed into street clothing in clean room.

(1100) Break

(1200) All workers return to their designated work areas after break.

(1205) Asbestos workers properly suit up wearing disposable coveralls, gloves and HEPA respirators. Once suited up workers enter Containment #3, 2nd floor Corridors #298/ #299 and continue fine cleaning.

(1300) Airless sprayer is being used to wash down ceiling grids and work areas inside Containment #3, 2nd floor Corridors #298/ #299. Rags are then used to wipe down ceiling grids, light fixtures, poly walls and containment surfaces.

(1330) Workers in Containment #5, Storage rm #143 continue setting up glove bags. Fittings adjacent to cement wall are also enclosed with glove bags, edges are sealed with spray glue and gray tape.

(1400) BARCO now has 2x workers isolating Containment #6, Mech. Rm #238A located on the 2nd floor. They will strip insulation from an air duct and will then conduct debris clean up. 6 mil critical barriers are set up at doors, edges are sealed with gray tape.

(1425) WA/ EV air samples are collected from Containment #3, 2nd floor Corridors #298/ #299.

(1430) Tidewater rep. (WG) properly suits up wearing required PPE and conducts final visual inspection in Containment #3, 2nd floor Corridors #298/ #299. Poly walls, poly floor, abated pipes in mechanical room #238A, metal ceiling grid, light fixtures, sprinklers, sprinkler plates and surrounding surfaces are thoroughly inspected for loose asbestos debris and ceiling tile dust. 2nd floor, Containment #2, Center Stairwell is considered to be clean after visual inspection and BARCO supervisor Wendy Morales is given approval for encapsulation.

(1500) BARCO replaces old microtrap pre-filters. Old filters are disposed inside asbestos labeled bags and are then sealed with gray tape.

(1505) Two workers focus on encapsulating Containment #3, 2nd floor Corridors #298/ #299. Airless sprayer and 5 gallon bucket of bridging encapsulant are used to evenly spray containment surfaces in order to lock down and loose fibers.

(1530) Asbestos workers exit Containment #3, 2nd floor Corridors #298/ #299 following proper decontamination procedures. Used coveralls are disposed inside asbestos labeled bags, workers then wash off in shower chamber and finally get dressed into street clothing in clean room.

(1550) Tidewater rep. (WG) conducts pre-abatement visual inspection in Containment #5, Storage rm #143. Glovebags are carefully inspected for any openings and assure proper set up, edges have been sealed with spray glue and gray tape. Poly critical barriers have been properly set up to isolate work area; HEPA vacuum, water pumps, decontamination unit and OSHA/ Caution signs are all in compliance with regulations. Approval for abatement is authorized, BARCO will begin glovebag abatement tomorrow morning.

(1630) Work areas are cleaned for the shift, trash debris are disposed in trash bags. BARCO crew departs project-site. Tidewater IH WG performs pcm air sample analysis; results do not indicate elevated fiber concentrations.

Total ACM bags from Containment #3, 2nd floor Corridors #298/ #299 = 300x

Total ACM fittings from Containment #3, 2nd floor Corridors #298/ #299 = 8x


TIDEWATER INC

EXHIBIT B

ASBESTOS ABATEMENT CHECKLIST (Daily)

Building:	Physical Education bldg.	**Project**:	Montgomery College (Rockville) #5089-016
Location:	Containment #3, 2nd floor Corridors #298/ #299	**Date**:	02/04/2020
Removal Contractor:	. BARCO	**Time Inspected**:	06:30
Monitoring:	Walter Gonzalez (Tidewater)	**Time Removal Began**:	06:25

Inspection Category	Activity to be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine" in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓	
2. Signage	**a.** Caution signs at vestibule entry	✓		**5. Work Habits In Work Area**	**d.** No smoking **e.** No eating/drinking	✓	
	b. OSHA ASBESTOS SIGN	✓		6. **Work Practices**	a. Hammers, Saws, etc NOT in use b. Removed Material Promptly Bagged c. Debris Stored Properly	✓	
	c. Dumpster, drums and bags labeled	✓					

FIELD NOTES: (Describe any problems encountered)

NONE

EXHIBIT C

FINAL INSPECTION OF ASBESTOS ABATEMENT CHECKLIST

Building:	Physical Education Bldg.	**Project**:	Montgomery College (Rockville)
Location:	Containment #3, Corridors #298/ #299	**Job No.**:	5089-016
Removal Contractor:	BARCO	**Date:** 02-04-2020 **Time Inspected:** 14:30 **Time Completed:** 15:00	
Monitoring:	Walter Gonzalez (Tidewater)	**Analyzed On-Site**: N/A **Laboratory:** ✓	

Inspection Category	Activity to bechecked	Within Limits	Problem Encountered	Bulk Samples: None.
1. Residual Dust on:	a. Floor	✓		
	b. Horizontal Surface	✓		FINAL AIR SAMPLING: If all other tests and situations appear to be satisfactory. The final air tests will be taken.
	c. Pipes	✓		Location: **SEE ATTACHED PCM DATA SHEET FOR DETAILS**
	d. Ventilation Equipment	✓		Volume (liters) **SEE ATTACHED PCM DATA SHEET FOR DETAILS**
	e. Vertical Surface	✓		Flow Rate (Liters/mi
	f. Ductwork	✓		Fiber/Filter
	g. Registers	✓		Fiber/cc
	h. Lights	✓		**Analyst Analyzing Sample: EMSL DATE**: 02/05/2020

Field Notes: (Describe any problems encountered during final inspection)

NONE

EXHIBIT A

ASBESTOS PRE-ABATEMENT CHECKLIST

Building:	Physical Education	**Project**:	5089-016
Location:	Containment #4, rm #142 (pool office)	**Date**:	02-05-2020
Removal Contractor:	BARCO	**Time Inspected**:	06:05
Monitoring:	Walter Gonzalez (Tidewater)	**Time Removal Began**:	06:25

Inspection Category	Activity to be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓ ✓ ✓	
2. Signage	a. Caution signs at vestibule entry	✓		**5. Work Habits In Work Area**	**d.** No smoking **e.** No eating/drinking	✓ ✓	
	b. OSHA ASBESTOS SIGN	✓					
	c. Dumpster, drums and bags labeled	✓					

FIELD NOTES: (Describe any problems encountered) None.

EXHIBIT A

ASBESTOS PRE-ABATEMENT CHECKLIST

Building:	Physical Education	**Project**:	5089-016
Location:	Containment #6, Mech. rm #238A	**Date**:	02-05-2020
Removal Contractor:	BARCO	**Time Inspected**:	07:50
Monitoring:	Walter Gonzalez (Tidewater)	**Time Removal Began**:	08:05

Inspection Category	Activity to be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓ ✓ ✓	
2. Signage	a. Caution signs at vestibule entry	✓		**5. Work Habits In Work Area**	**d.** No smoking **e.** No eating/drinking	✓ ✓	
	b. OSHA ASBESTOS SIGN	✓					
	c. Dumpster, drums and bags labeled	✓					

FIELD NOTES: (Describe any problems encountered) None.

TIDEWATER INC

PCM AIR SAMPLE DATA SHEET

6625 Selnick Dr., Suite A, Elkridge, MD 21075

Office: (410) 540-8700
Fax: (410) 997-8713

Project : **Physical Education bldg.**
Job – No : **5089-016**
Name : Walter Gonzalez

Client: **Montgomery College (Rockville)**
Time & Date February 5, 2020 **On-Site** 6:00am **TO** 4:30pm
Analy-On-Site YES

Sample ID	Sample Type	Rotometer Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm²)	Fiber Conc. (f/cc)	Description & Location
WG-020520-01	WA	2.0	6:20	2.0	2.00	13:10	410	820	12	100	0	15.29	**0.007**	Inside Containment #4, rm #142 (pool office)
WG-020520-02	EV	2.0	6:20	2.0	2.00	13:10	410	820	1	100	0	1.27	**0.001**	Outside decon Containment #4, rm #142 (pool office)
WG-020520-03	WA	2.0	6:30	2.0	2.00	15:15	525	1050	17	100	0	21.66	**0.008**	Inside Containment #5, Storage rm #143
WG-020520-04	WA	2.0	6:30	2.0	2.00	15:15	525	1050	13	100	0	16.56	**0.006**	Inside Containment #5, Storage rm #143
WG-020520-05	EV	2.0	6:30	2.0	2.00	15:15	525	1050	4	100	0	5.10	**0.002**	Outside decon Containment #5, Storage rm #143
WG-020520-06	WA	2.0	7:45	2.0	2.00	12:40	295	590	9	100	0	11.46	**0.007**	Inside Containment #6, Mech. rm #238A
WG-020520-07	EV	2.0	7:45	2.0	2.00	12:40	295	590	0.5	100	0	0.64	**0.000**	Outside decon Containment #6, Mech. rm #238A
WG-020520-08	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank
WG-020520-09	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank

Containment #4, rm #142 (pool office) – BARCO performs debris clean up and fine cleaning
Containment #5, Storage rm #143 – BARCO performs glovebag abatement
Containment #6, Mech. rm #238A – BARCO performs airduct insulation removal and debris clean up

Analysis in accordance to NIOSH 7400 Method for Phase Contrast Microscopy, air sampling pumps are calibrated with rotameter # 194588-01

Key:

Analytical Constants:

Effective Collecting Filter Area = **385 mm²**
Microscope Graticle Field Area = **0.00785 mm²**
Filter Type = 25mm MCE, 0.8 µm pore size
Limit of Detection (LOD) **= 5.5 fibers/100 fields**

Definitions of Abbreviations:

CONC. = Concentration in air sampled
LOD = Limit of detection for sample
NIOSH = National Institute for Occupational Safety & Health
NFO = No Fiber Observed.

Units of Measure:

f/cc = Fibers per cubic centimeter of air
f/mm2 = Fibers per square millimeter of filter
Lpm = Liters per minute of sampling time
min = Minutes of sampling time

General Notes:

***** - Denotes sample uncountable due to high particulate level.
****** - Denotes sample not counted due to air pump failure.
******* - Denotes sample not counted due to disturbance.
AHERA 40 CFR 763.90 (i)(2)(ii)

Sample Types:

EV = **Environmental**
BG = Background
WA= Inside work area during abatement
TWA= Time Weighted Average
WC= Working Clearance
FC= Final Clearance
PS = Personal
FB = Field Blank

TIDEWATER INC

6625 Selnick Drive, Suite A, Elkridge, Maryland 21075

Phone: (410)-540-8700 Fax (410)-997-8713

DAILY REPORT

CLIENT: Montgomery College (Rockville)

JOB NUMBER: 5089-016

PROJECT NAME: Physical Education bldg.

DATE: 2-5-2020

ON-SITE FROM: 0600 TO: 1630 LUNCH:_____

EXPENSES:_____

TOTAL HOURS:_____10_____ MILEAGE:_____

EMPLOYEE: Walter Gonzalez

SCOPE OF WORK:

Containment #3, 2nd floor Corridors #298/ #299 – Tidewater conducts TEM final clearance sampling

Containment #4, rm #142 (pool office) – BARCO performs debris clean up and fine cleaning

Containment #5, Storage rm #143 – BARCO performs glovebag abatement

Containment #6, Mech. rm #238A – BARCO performs airduct insulation removal and debris clean up

SUMMARY OF ACTIVITIES:

(0600) Tidewater, Inc. Industrial Hygienist Walter Gonzalez (WG) arrives on-site at Montgomery College Campus at 51 Mannakee street, Rockville, MD 20850 to perform Area Air Monitoring and Asbestos Abatement air quality control. Tidewater rep. (WG) meets with BARCO supervisor Wendy Morales to discuss work activities for the shift. There are 28x workers and 1x supervisor onsite, they focus on glovebag abatement and clean up in Containment #5, Storage rm #143; airduct insulation removal/ debris clean up in Containment #6, Mech. rm #238A; fine cleaning in Containment #4, rm#142 and glovebag set up in Storage rm #143 by.

(0605) Tidewater IH calibrates air sampling pumps @2.0 (LPM). Pre-abatement visual inspection is then conducted in Containment #4, rm #142 (pool office); poly critical barriers, airless sprayer, HEPA vacuum, mini microtrap, decontamination unit and OSHA/ caution signs are in compliance with regulations. BARCO is given approval to begin debris clean up.

(0615) Asbestos workers properly suit up wearing disposable coveralls, gloves and HEPA respirators. Once suited up workers enter Containment #4, rm#142 (pool office) and continue debris clean up and fine cleaning.

(0620) WA/ EV air samples are started for Containment #4, rm#142 (pool office).

(0630) WA/ EV air samples are started for Containment #5, Storage rm #143. Asbestos workers have properly suited up wearing disposable coveralls, gloves and HEPA respirators. Once suited up workers enter containment and begin glovebag abatement.

(0645) At this moment BARCO is setting up work area in Containment #6, Mech. rm #238A. Workers will remove section of air duct insulation and work on cleaning debris in this containment. This work area will be cleared with PCM sampling.

(0700) Tidewater IH calibrates high volume air sampling pumps @10 (LPM)

(0715) Tidewater rep. (WG) starts final TEM clearance samples in Containment #3, 2nd floor Corridors #298/ #299.

(0745) WA/ EV air samples are started for Containment #6, Mech. rm #238A.

(0750) Tidewater rep. (WG) conducts pre-abatement visual inspection in Containment #6, Mech. rm #238A. Poly critical barriers have been properly set up to isolate work area; HEPA vacuum, water pumps, HEPA vacuum, decontamination unit and OSHA/ Caution signs are all in compliance with regulations. Approval for abatement is authorized, BARCO will begin airduct insulation removal and work area debris clean up.

(0815) Workers inside Containment #4, rm #142 (pool office) use HEPA vacuums to clean debris off floor and metal air ducts. Scattered debris are disposed inside asbestos labeled bags and sealed with gray tape.

(0915) Tidewater rep. (WG) collects final TEM clearance samples in Containment #3, 2nd floor Corridors #298/ #299.

(0940) Workers inside Containment #5, Storage rm #143 focus on removing asbestos fittings via glovebag method. Workers use handheld pumps to keep asbestos wet with amended water, utility knives are also used to cut TSI open. Two workers inside that containment also focus on cleaning dust and debris from matts and gym related equipment.

(1015) At this moment air duct insulation has been stripped from metal air duct itself in Containment #6, Mech. rm #238A. BARCO now focuses on fine cleaning, HEPA vacuums are used to clean loose debris from floor and airless sprayer is used to wash down work area surfaces starting from top sections and working their way down.

(1050) Asbestos workers exit all containments following proper decontamination procedures. Used coveralls are disposed inside asbestos labeled bags, workers then wash off in shower chamber and finally get dressed into street clothing in clean room.

(1100) Break

(1200) All workers return to their designated work areas after break.

(1205) Asbestos workers properly suit up wearing disposable coveralls, gloves and HEPA respirators. Once suited up workers enter active containments and resume abatement.

(1240) WA/ EV air samples are collected from Containment #6, Mech. rm #238A.

(1245) Tidewater rep. (WG) properly suits up wearing required PPE and conducts final visual inspection in Containment #6, Mech. rm #238A. Poly barriers, polys floor, poly walls, air ducts, pipes and surrounding surfaces in mechanical room #238A are thoroughly inspected for dust and loose asbestos debris. Containment #6, Mech. rm #238A is considered to be clean after visual inspection and BARCO supervisor Wendy Morales is given approval for encapsulation.

(1300) Two workers focus on encapsulating Containment #6, Mech. rm #238A. Airless sprayer and 5-gallon bucket of bridging encapsulant are used to evenly spray containment surfaces in order to lock down and loose fibers.

(1310) WA/ EV air samples are started for Containment #4, rm#142 (pool office).

(1315) Tidewater rep. (WG) properly suits up wearing required PPE and conducts final visual inspection in Containment #4, rm#142 (pool office). Poly barriers, floor, walls, air ducts, pipes and surrounding surfaces in Containment #4, rm#142 (pool office) are thoroughly inspected for dust and loose asbestos debris. Containment #4, rm#142 (pool office) is considered to be clean after visual inspection and BARCO supervisor Wendy Morales is given approval for encapsulation.

(1345) Two workers focus on encapsulating Containment #4, rm#142 (pool office). Airless sprayer and 5-gallon bucket of bridging encapsulant are used to evenly spray containment surfaces in order to lock down and loose fibers.

(1420) At this moment asbestos workers inside Containment #5, Storage rm #143 have successfully removed a total of 37x ACM fitting using glovebag method. All workers inside containment now focus on fine cleaning entire containment; workers use airless sprayer to wash down pipes, cement walls, concrete floors, matts and random gym related equipment. Wet rags are then used to wipe down all containment surfaces.

(1515) WA/ EV air samples are collected from Containment #5, Storage rm #143.

(1525) Tidewater rep. (WG) properly suits up wearing required PPE and conducts final visual inspection in Containment #5, Storage rm #143. Poly barriers, cement floor, cement walls, pipes, elbow fitting, random gym equipment and surrounding

surfaces are thoroughly inspected for dust and loose asbestos debris. Containment #5, Storage rm #143 is considered to be clean after visual inspection and BARCO supervisor Wendy Morales is given approval for encapsulation.

(1555) Two workers focus on encapsulating Containment #5, Storage rm #143. Airless sprayer and 5-gallon bucket of bridging encapsulant are used to evenly spray containment surfaces in order to lock down and loose fibers.

(1615) Asbestos workers exit all containments following proper decontamination procedures. Used coveralls are disposed inside asbestos labeled bags, workers then wash off in shower chamber and finally get dressed into street clothing in clean room.

(1630) Work areas are cleaned for the shift, trash debris are disposed in trash bags. BARCO crew departs project-site.

Tidewater IH WG performs pcm air sample analysis; results do not indicate elevated fiber concentrations.

Total ACM bags from Containment #4, rm #142 (pool office) = 100

Total ACM bags from Containment #5, Storage rm #143 = 40x

Total ACM fittings from Containment #5, Storage rm #143 = 37x

Total ACM bags from Containment #6, Mech. rm #238A = 20x

Reviewed by:__WG_____

02-05-2020

TIDEWATER INC

EXHIBIT C

FINAL INSPECTION OF ASBESTOS ABATEMENT CHECKLIST

Building:	Physical Education Bldg.	**Project**:	Montgomery College (Rockville)
Location:	Containment #4, rm#142 (pool office)	**Job No.**:	5089-016
Removal Contractor:	BARCO	**Date:** 02-05-2020 **Time Inspected:** 13:10 **Time Completed:** 13:45	
Monitoring:	Walter Gonzalez (Tidewater)	**Analyzed On-Site**: N/A **Laboratory:** ✓	

Inspection Category	Activity to bechecked	Within Limits	Problem Encountered	Bulk Samples: None.
1. Residual Dust on:	a. Floor	✓		
	b. Horizontal Surface	✓		FINAL AIR SAMPLING: If all other tests and situations appear to be satisfactory. The final air tests will be taken.
	c. Pipes	✓		Location: **SEE ATTACHED PCM DATA SHEET FOR DETAILS**
	d. Ventilation Equipment	✓		Volume (liters) **SEE ATTACHED PCM DATA SHEET FOR DETAILS**
	e. Vertical Surface	✓		Flow Rate (Liters/mi
	f. Ductwork	✓		Fiber/Filter
	g. Registers	✓		Fiber/cc
	h. Lights	✓		**Analyst Analyzing Sample:** **EMSL** **DATE**: 02/06/2020

Field Notes: (Describe any problems encountered during final inspection)

NONE

EXHIBIT C

FINAL INSPECTION OF ASBESTOS ABATEMENT CHECKLIST

Building:	Physical Education Bldg.	**Project**:	Montgomery College (Rockville)
Location:	Containment #5, Storage rm #143	**Job No.**:	5089-016
Removal Contractor:	BARCO	**Date:** 02-05-2020 **Time Inspected:** 15:15 **Time Completed:** 15:55	
Monitoring:	Walter Gonzalez (Tidewater)	**Analyzed On-Site**: N/A **Laboratory:** ✓	

Inspection Category	Activity to bechecked	Within Limits	Problem Encountered	Bulk Samples: None.
1. Residual Dust on:	a. Floor	✓		
	b. Horizontal Surface	✓		FINAL AIR SAMPLING: If all other tests and situations appear to be satisfactory. The final air tests will be taken.
	c. Pipes	✓		Location: **SEE ATTACHED PCM DATA SHEET FOR DETAILS**
	d. Ventilation Equipment	✓		Volume (liters) **SEE ATTACHED PCM DATA SHEET FOR DETAILS**
	e. Vertical Surface	✓		Flow Rate (Liters/mi
	f. Ductwork	✓		Fiber/Filter
	g. Registers	✓		Fiber/cc
	h. Lights	✓		**Analyst Analyzing Sample:** **EMSL** **DATE**: 02/06/2020

Field Notes: (Describe any problems encountered during final inspection)

NONE

EXHIBIT C

FINAL INSPECTION OF ASBESTOS ABATEMENT CHECKLIST

Building:	Physical Education Bldg.	**Project**:	Montgomery College (Rockville)
Location:	Containment #6, Mech. rm #238A	**Job No.**:	5089-016
Removal Contractor:	BARCO	**Date:** 02-05-2020 **Time Inspected:** 12:40 **Time Completed:** 13:00	
Monitoring:	Walter Gonzalez (Tidewater)	**Analyzed On-Site**: N/A **Laboratory:** ✓	

Inspection Category	Activity to bechecked	Within Limits	Problem Encountered	Bulk Samples: None.
1. Residual Dust on:	a. Floor	✓		
	b. Horizontal Surface	✓		FINAL AIR SAMPLING: If all other tests and situations appear to be satisfactory. The final air tests will be taken.
	c. Pipes	✓		Location: **SEE ATTACHED PCM DATA SHEET FOR DETAILS**
	d. Ventilation Equipment	✓		Volume (liters) **SEE ATTACHED PCM DATA SHEET FOR DETAILS**
	e. Vertical Surface	✓		Flow Rate (Liters/mi
	f. Ductwork	✓		Fiber/Filter
	g. Registers	✓		Fiber/cc
	h. Lights	✓		**Analyst Analyzing Sample:** **EMSL** **DATE**: 02/06/2020

Field Notes: (Describe any problems encountered during final inspection)

NONE

EXHIBIT A

ASBESTOS PRE-ABATEMENT CHECKLIST

Building:	Physical Education	**Project**:	5089-016
Location:	Containment #7, rm #121 (dance studio closet entrance)	**Date**:	02-06-2020
Removal Contractor:	BARCO	**Time Inspected**:	08:15
Monitoring:	Walter Gonzalez (Tidewater)	**Time Removal Began**:	08:30

Inspection Category	Activity to be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓ ✓ ✓	
2. Signage	a. Caution signs at vestibule entry	✓		**5. Work Habits In Work Area**	**d.** No smoking **e.** No eating/drinking	✓ ✓	
	b. OSHA ASBESTOS SIGN	✓					
	c. Dumpster, drums and bags labeled	✓					

TIDEWATER INC

6625 Selnick Dr., Suite A, Elkridge, MD 21075

Office: (410) 540-8700
Fax: (410) 997-8713

PCM AIR SAMPLE DATA SHEET

Project : **Physical Education bldg.**
Job – No : **5089-016**
Name : Walter Gonzalez

Client: **Montgomery College (Rockville)**
Time & Date February 6, 2020 **On-Site** 6:00am **TO** 4:30pm
Analy-On-Site YES

Sample ID	Sample Type	Rotometer Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm²)	Fiber Conc. (f/cc)	Description & Location
WG-020620-01	WA	2.0	8:30	2.0	2.00	12:45	255	510	2	100	0	2.55	**0.002**	Inside Containment #7, rm #121 (dance studio closet entrance)
WG-020620-02	EV	2.0	8:30	2.0	2.00	12:45	255	510	0	100	0	0.00	**0.000**	Outside Containment #7, rm #121 (dance studio closet entrance)
WG-020620-03	FC	10.0	13:30	10.0	10.00	15:30	120	1200	1	100	0	1.27	**0.000**	Inside Containment #7, rm #121 (dance studio closet entrance)
WG-020620-04	FC	10.0	13:30	10.0	10.00	15:30	120	1200	1.5	100	0	1.91	**0.001**	Inside Containment #7, rm #121 (dance studio closet entrance)
WG-020620-05	FC	10.0	6:10	10.0	10.00	8:10	120	1200	2.5	100	0	3.18	**0.001**	Inside Containment #6, Mech. rm #238A
WG-020620-06	FC	10.0	6:10	10.0	10.00	8:10	120	1200	3	100	0	3.82	**0.001**	Inside Containment #6, Mech. rm #238A
WG-020620-07	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank
WG-020620-08	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank

Containment #6, Mech. rm #238A – Tidewater conducts PCM final clearance
Containment #7, rm #121 (dance studio closet entrance) – BARCO performs floor tiles/ mastic abateent
Containment #7, rm #121 (dance studio closet entrance) – Tidewater conducts PCM final clearance

Analysis in accordance to NIOSH 7400 Method for Phase Contrast Microscopy, air sampling pumps are calibrated with rotameter # 194588-01

Key:

Analytical Constants:

Effective Collecting Filter Area = **385 mm²**
Microscope Graticle Field Area = **0.00785 mm²**
Filter Type = 25mm MCE, 0.8 µm pore size
Limit of Detection (LOD) = **5.5 fibers/100 fields**

Definitions of Abbreviations:

CONC. = Concentration in air sampled
LOD = Limit of detection for sample
NIOSH = National Institute for Occupational Safety & Health
NFO = No Fiber Observed.

Units of Measure:

f/cc = Fibers per cubic centimeter of air
f/mm2 = Fibers per square millimeter of filter
Lpm = Liters per minute of sampling time
min = Minutes of sampling time

General Notes:

***** - Denotes sample uncountable due to high particulate level.
****** - Denotes sample not counted due to air pump failure.
******* - Denotes sample not counted due to disturbance.
AHERA 40 CFR 763.90 (i)(2)(ii)

Sample Types:

EV = Environmental
BG = Background
WA= Inside work area during abatement
TWA= Time Weighted Average
WC= Working Clearance
FC= Final Clearance
PS = Personal
FB = Field Blank

TIDEWATER INC

6625 Selnick Drive, Suite A, Elkridge, Maryland 21075

Phone: (410)-540-8700 Fax (410)-997-8713

DAILY REPORT

CLIENT: Montgomery College (Rockville)

JOB NUMBER: 5089-016

PROJECT NAME: Physical Education bldg.

DATE: 2-6-2020

ON-SITE FROM: 0600 TO: 1630 LUNCH:_____

EXPENSES:_____

TOTAL HOURS:_____10_____ MILEAGE:_____

EMPLOYEE: Walter Gonzalez

SCOPE OF WORK:

Containment #4, rm #142 (pool office) – Tidewater conducts TEM final clearance sampling

Containment #5, rm #143 (storage) – Tidewater conducts TEM final clearance sampling

Containment #6, Mech. rm #238A – Tidewater conducts PCM final clearance sampling

Containment #7, rm #121 (dance studio closet entrance) – BARCO performs floor tile/ mastic abatement

Containment #8, rm #217 (dance studio closet entrance) – BARCO performs containment set up

SUMMARY OF ACTIVITIES:

(0600) Tidewater, Inc. Industrial Hygienist Walter Gonzalez (WG) arrives on-site at Montgomery College Campus at 51 Mannakee street, Rockville, MD 20850 to perform Area Air Monitoring and Asbestos Abatement air quality control. Tidewater rep. (WG) meets with BARCO supervisor Ron Harvey to discuss work activities for the shift. There are 22x workers and 1x supervisor onsite, they focus on setting up work areas throughout 1st floor; BARCO will also abate small section of floor tile/ mastic in entrance of closet located on 1st floor rm #121 (dance studio). Tidewater rep. (WG) will conduct final TEM clearance air sampling in Containment #4, rm #142 (pool office) & Containment #5, rm #143 (storage); PCM final clearance sampling in Containment #6, Mech. rm #238A.

(0605) Tidewater IH calibrates high volume air sampling pumps @ 10 (LPM)

(0610) Tidewater rep. (WG) starts final clearance PCM air samples in Containment #6, Mech. rm #238A.

(0620) BARCO works on setting up mini containment in rm #121 (dance studio closet entrance). 6 mil poly barriers are set up in order to isolate work area where BARCO will be abating small section of floor tiles and mastic at the entrance of equipment closet. Spray glue and gray tape are utilized to seal poly seams in order to avoid cross contamination.

(0640) Tidewater rep. (WG) starts final clearance TEM air samples in Containment #4, rm #142 (pool office).

(0650) Tidewater rep. (WG) starts final clearance TEM air samples in Containment #5, rm #143 (storage).

(0730) Workers now set up mini microtrap in Containment #7, rm #121 (dance studio closet entrance), flex duct is attached with spray glue/ gray tape and exhausted into water baffle system that is covered with HEPA filter.

(0810) Tidewater rep. (WG) collects final clearance PCM air samples from Containment #6, Mech. rm #238A.

(0815) Tidewater rep. (WG) conducts pre-abatement visual inspection in Containment #7, rm #121 (dance studio closet entrance). Poly wall barriers, poly walls, mini microtrap, HEPA vacuum, water pump, decontamination unit and OSHA/

Caution signs are all in compliance with regulations. Approval for abatement is authorized, BARCO will begin floor tiles/ mastic abatement.

(0830) WA/ EV air samples are started in Containment #7, rm #121 (dance studio closet entrance).

(0835) Asbestos workers properly suit up wearing disposable coveralls, gloves and HEPA respirators. Once suited up workers enter Containment #7, rm #121 (dance studio closet entrance) and begin floor tile abatement.

(0840) Tidewater rep. (WG) collects final clearance TEM air samples from Containment #4, rm #142 (pool office).

(0850) Tidewater rep. (WG) starts final clearance TEM air samples in Containment #5, rm #143 (storage).

(1000) BARCO workers now work on abating floor mastic adhesive. Handheld pumps are used to spray floor with mastic chemical remover, wire brushes are then used to scrub off asbestos containing mastic.

(1100) Break

(1200) All workers return to their designated work areas after break.

(1230) Tidewater rep. (WG) properly suits up wearing required PPE and conducts final visual inspection in Containment #7, rm #121 (dance studio closet entrance). Poly walls, containment surfaces and concrete floor are thoroughly inspected for loose asbestos debris and mastic residue. Containment #7, rm #121 (dance studio closet entrance) is considered to be clean after visual inspection and BARCO supervisor Wendy Morales is given approval for encapsulation.

(1245) WA/ EV air samples are collected from Containment #7, rm #121 (dance studio closet entrance).

(1330) Tidewater rep. (WG) starts final clearance TEM air samples in Containment #7, rm #121 (dance studio closet entrance).

(1430) BARCO workers set up full containment in rm #217 (dance studio). Poly critical barriers are set up on light fixtures and electronic sensors attached to ceiling tiles.

(1530) Tidewater rep. (WG) collects final clearance PCM air samples from Containment #7, rm #121 (dance studio closet entrance).

(1630) Work areas are cleaned for the shift, trash debris are disposed in trash bags. BARCO crew departs project-site.

Tidewater IH WG performs pcm air sample analysis; results do not indicate elevated fiber concentrations.

Total ACM bags from Containment #7, rm #121 (dance studio closet entrance) = 15x

Reviewed by:__WG_____

02-06-2020

TIDEWATER INC

EXHIBIT C

FINAL INSPECTION OF ASBESTOS ABATEMENT CHECKLIST

Building:	Physical Education Bldg.	**Project**:	Montgomery College (Rockville)
Location:	Containment #7, rm #121 (dance studio closet entrance)	**Job No.**:	5089-016
Removal Contractor:	BARCO	**Date:** 02-06-2020 **Time Inspected:** 12:30 **Time Completed:** 12:45	
Monitoring:	Walter Gonzalez (Tidewater)	**Analyzed On-Site**: ✓ **Laboratory:** N/A	

Inspection Category	Activity to bechecked	Within Limits	Problem Encountered	Bulk Samples: None.
1. Residual Dust on:	a. Floor	✓		
	b. Horizontal Surface	✓		FINAL AIR SAMPLING: If all other tests and situations appear to be satisfactory. The final air tests will be taken.
	c. Pipes	✓		Location: **SEE ATTACHED PCM DATA SHEET FOR DETAILS**
	d. Ventilation Equipment	✓		Volume (liters) **SEE ATTACHED PCM DATA SHEET FOR DETAILS**
	e. Vertical Surface	✓		Flow Rate (Liters/mi
	f. Ductwork	✓		Fiber/Filter
	g. Registers	✓		Fiber/cc
	h. Lights	✓		**Analyst Analyzing Sample: Walter Gonzalez DATE**: 02/06/2020

Field Notes: (Describe any problems encountered during final inspection)

NONE

FIELD NOTES: (Describe any problems encountered) **Abatement delay due to running air conditioning unit. Shut off by Montgomery College maintenance staff.

EXHIBIT A

ASBESTOS PRE-ABATEMENT CHECKLIST

Building:	Physical Education	**Project**:	5089-016
Location:	Containment #8, 2nd floor, #217 (dance studio).	**Date**:	02-07-2020
Removal Contractor:	BARCO	**Time Inspected**:	08:00
Monitoring:	Walter Gonzalez (Tidewater)	**Time Removal Began**:	09:30

Inspection Category	Activity to be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓ ✓ ✓	
2. Signage	a. Caution signs at vestibule entry	✓		**5. Work Habits In Work Area**	**d.** No smoking **e.** No eating/drinking	✓ ✓	
	b. OSHA ASBESTOS SIGN	✓					
	c. Dumpster, drums and bags labeled	✓					

TIDEWATER INC

PCM AIR SAMPLE DATA SHEET

6625 Selnick Dr., Suite A, Elkridge, MD 21075

Office: (410) 540-8700

Fax: (410) 997-8713

Project : **Physical Education bldg.**

Job – No : **5089-016**

Name : Walter Gonzalez

Client: **Montgomery College (Rockville)**

Time & Date February 7, 2020 **On-Site** 6:00am **TO** 4:30pm

Analy-On-Site YES

Sample ID	Sample Type	Rotometer Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm^2)	Fiber Conc. (f/cc)	Description & Location
WG-020720-01	WA	2.0	9:00	2.0	2.00	15:40	400	800	15	100	0	19.11	**0.009**	Inside Containment #8, 2nd floor, #217 (dance studio)
WG-020720-02	WA	2.0	9:00	2.0	2.00	15:40	400	800	11	100	0	14.01	**0.007**	Inside Containment #8, 2nd floor, #217 (dance studio)
WG-020720-03	EV	2.0	9:00	2.0	2.00	15:40	400	800	2	100	0	2.55	**0.001**	Outside decon Containment #8, 2nd floor, #217 (dance studio)
WG-020720-04	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank
WG-020720-05	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank

Containment #8, 2nd floor, #217 (dance studio) - BARCO works on ceiling tile abatement

Analysis in accordance to NIOSH 7400 Method for Phase Contrast Microscopy, air sampling pumps are calibrated with rotameter # 194588-01

Key:

Analytical Constants:

Effective Collecting Filter Area = **385 mm^2**

Microscope Graticle Field Area = **0.00785 mm^2**

Filter Type = 25mm MCE, 0.8 µm pore size

Limit of Detection (LOD) = **5.5 fibers/100 fields**

Definitions of Abbreviations:

CONC. = Concentration in air sampled

LOD = Limit of detection for sample

NIOSH = National Institute for Occupational Safety & Health

NFO = No Fiber Observed.

Units of Measure:

f/cc = Fibers per cubic centimeter of air

f/mm2 = Fibers per square millimeter of filter

Lpm = Liters per minute of sampling time

min = Minutes of sampling time

General Notes:

***** - Denotes sample uncountable due to high particulate level.

****** - Denotes sample not counted due to air pump failure.

******* - Denotes sample not counted due to disturbance.

AHERA 40 CFR 763.90 (i)(2)(ii)

Sample Types:

EV = Environmental

BG = Background

WA= Inside work area during abatement

TWA= Time Weighted Average

WC= Working Clearance

FC= Final Clearance

PS = Personal

FB = Field Blank

TIDEWATER INC

6625 Selnick Drive, Suite A, Elkridge, Maryland 21075

Phone: (410)-540-8700 Fax (410)-997-8713

DAILY REPORT

CLIENT: Montgomery College (Rockville)

JOB NUMBER: 5089-016

PROJECT NAME: Physical Education bldg.

DATE: 2-7-2020

ON-SITE FROM: 0600 TO: 1630 LUNCH:_____

EXPENSES:_____

TOTAL HOURS:_____10_____ MILEAGE:_____

EMPLOYEE: Walter Gonzalez

SCOPE OF WORK:

Containment #8, 2nd floor, rm #217 (dance studio) – BARCO performs ceiling tile abatement

SUMMARY OF ACTIVITIES:

(0600) Tidewater, Inc. Industrial Hygienist Walter Gonzalez (WG) arrives on-site at Montgomery College Campus at 51 Mannakee street, Rockville, MD 20850 to perform Area Air Monitoring and Asbestos Abatement air quality control. Tidewater rep. (WG) meets with BARCO supervisor Wendy Morales to discuss work activities for the shift. There are 15x workers and 1x supervisor onsite, they focus on ceiling tile abatement in Containment #8, 2nd floor, rm #217 (dance studio); BARCO will also work on tearing down Containment #4, rm #142 (pool office) and Containment #5, rm #143 (storage).

(0700) BARCO works on tearing down Containment #4, rm #142 (pool office) and Containment #5, rm #143 (storage). Utility knives are used to cut poly barriers into sections that will fit into asbestos labeled bags. Negative air machine is sealed with 6 mil poly barriers at both openings in order to avoid cross contamination during transportation.

(0745) Three stage decontamination unit is set up for Containment #8, 2nd floor, rm #217 (dance studio). Three stages are set up, each stage is divided with double layer crossed poly curtains. Water hose is ran from varsity locker room to decontaminating shower and screwed into place.

(0800) Tidewater rep. (WG) conducts pre-abatement visual inspection in Containment #8, 2nd floor, rm #217 (dance studio). Poly critical barriers, poly walls, microtraps, airless sprayer, HEPA vacuum, three stage decontamination unit, water and OSHA signs are all in compliance with regulation. **A/C unit at ceiling level is actively running, maintenance staff has been contacted in order for unit to be shut off and sealed properly.

(0830) Tidewater IH calibrates air sampling pumps @2.0 (LPM)

(0845)**At this moment maintenance staff has successfully shut of A/C unit in Containment #8, 2nd floor, rm #217 (dance studio). BARCO supervisor Wendy Morales is given authority to begin ceiling tile abatement.

(0855) Asbestos workers properly suit up wearing disposable coveralls, gloves and HEPA respirators. Once suited up workers enter Containment #8, 2nd floor, #217 (dance studio) and continue ceiling tile removal.

(0900) WA/ EV air samples are started for Containment #8, 2nd floor, #217 (dance studio).

(0915) Workers used scaffolds to reach ceiling level in stairway leading to Containment #8, 2nd floor, #217 (dance studio). Workers remove ceiling tiles in whole sections when possible in order to avoid dusty conditions; airless sprayer is closely used to keep ACM and containment wet with amended water in order to minimize airborne fibers.

(1000) Asbestos workers work as a team to remove ceiling tiles in Containment #8, 2nd floor, #217 (dance studio). Workers in ladders pass down whole ceiling tiles to workers on ground level that are disposing ceiling tiles into asbestos labeled bags. Bags are then sealed with gray tape.

(1050) Asbestos workers exit containment following proper decontamination procedures. Used coveralls are disposed inside asbestos labeled bags, workers then wash off in shower chamber and finally get dressed into street clothing in clean room.

(1100) Break

(1200) All workers return to their designated work areas after break.

(1205) Asbestos workers properly suit up wearing disposable coveralls, gloves and HEPA respirators. Once suited up workers enter Containment #8, 2nd floor, #217 (dance studio) and ceiling tile abatement.

(1300) Workers inside Containment #8, 2nd floor, #217 (dance studio) continue ceiling tile removal. Removed ceiling tiles are promptly disposed inside asbestos labeled bags. Asbestos bags are taken closer to containment exit by stairwell.

(1400) BARCO has torn down Containment #4, rm #142 (pool office) and Containment #5, rm #143 (storage). All equipment has been evacuated from these areas; these areas are ready for occupants.

(1500) Workers inside Containment #8, 2nd floor, #217 (dance studio) work on completing ceiling tile abatement. Airless sprayer continues to be constantly used to avoid dusty conditions and to minimize airborne fibers.

(1545) WA/ EV air samples are collected from Containment #8, 2nd floor, #217 (dance studio).

(1600) Asbestos workers exit Containment #8, 2nd floor, #217 (dance studio) following proper decontamination procedures. Used coveralls are disposed inside asbestos labeled bags, workers then wash off in shower chamber and finally get dressed into street clothing in clean room.

(1630) Work areas are cleaned for the shift, trash debris are disposed in trash bags. BARCO crew departs project-site. Tidewater IH WG performs pcm air sample analysis; results do not indicate elevated fiber concentrations.

Reviewed by:__WG_____

02-07-2020

TIDEWATER INC

TIDEWATER INC

6625 Selnick Dr., Suite A, Elkridge, MD 21075

Office: (410) 540-8700
Fax: (410) 997-8713

PCM AIR SAMPLE DATA SHEET

Project : **Physical Education bldg.**
Job – No : **5089-016**
Name : Walter Gonzalez

Client: **Montgomery College (Rockville)**
Time & Date February 8, 2020 **On-Site** 6:00am **TO** 2:30pm
Analy-On-Site YES

Sample ID	Sample Type	Rotometer Flow Rate, Flow (Lpm) Time ON / AVG & Time OFF					Samples Duration Min	Sample Volume Liters	Fibers Count	Total Field Count	Field Blank Count	Fiber Density (f/mm^2)	Fiber Conc. (f/cc)	Description & Location
WG-020820-01	WA	2.0	6:35	2.0	2.00	13:05	390	780	3.5	100	0	4.46	**0.002**	Inside Containment #8, 2nd floor, rm #217 (dance studio)
WG-020820-02	WA	2.0	6:35	2.0	2.00	13:05	390	780	4	100	0	5.10	**0.003**	Inside Containment #8, 2nd floor, rm #217 (dance studio)
WG-020820-03	EV	2.0	6:35	2.0	2.00	13:05	390	780	2	100	0	2.55	**0.001**	Outside decon Containment #8, 2nd floor, rm #217 (dance studio)
WG-020820-04	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank
WG-020820-05	FB	-	-	-	-	-	-	-	-	-	-	-	-	Field Blank

Containment #8, 2nd floor, rm #217 (dance studio) - BARCO works on ceiling tile abatement and fine cleaning

Analysis in accordance to NIOSH 7400 Method for Phase Contrast Microscopy, air sampling pumps are calibrated with rotameter # 194588-01

Key:

Analytical Constants:

Effective Collecting Filter Area = **385 mm^2**
Microscope Graticle Field Area = **0.00785 mm^2**
Filter Type = 25mm MCE, 0.8 µm pore size
Limit of Detection (LOD) = **5.5 fibers/100 fields**

Definitions of Abbreviations:

CONC. = Concentration in air sampled
LOD = Limit of detection for sample
NIOSH = National Institute for Occupational Safety & Health
NFO = No Fiber Observed.

Units of Measure:

f/cc = Fibers per cubic centimeter of air
f/mm2 = Fibers per square millimeter of filter
Lpm = Liters per minute of sampling time
min = Minutes of sampling time

General Notes:

* - Denotes sample uncountable due to high particulate level.
** - Denotes sample not counted due to air pump failure.
*** - Denotes sample not counted due to disturbance.
AHERA 40 CFR 763.90 (i)(2)(ii)

Sample Types:

EV = Environmental
BG = Background
WA= Inside work area during abatement
TWA= Time Weighted Average
WC= Working Clearance
FC= Final Clearance
PS = Personal
FB = Field Blank

TIDEWATER INC

6625 Selnick Drive, Suite A, Elkridge, Maryland 21075

Phone: (410)-540-8700 Fax (410)-997-8713

DAILY REPORT

CLIENT: Montgomery College (Rockville)

JOB NUMBER: 5089-016

PROJECT NAME: Physical Education bldg.

DATE: 2-8-2020

ON-SITE FROM: 0600 TO: 1430 LUNCH:_____

EXPENSES:_____

TOTAL HOURS:_____8_____ MILEAGE:_____

EMPLOYEE: Walter Gonzalez

SCOPE OF WORK:

Containment #8, 2nd floor, rm #217 (dance studio) – BARCO performs ceiling tile abatement and fine cleaning

SUMMARY OF ACTIVITIES:

(0600) Tidewater, Inc. Industrial Hygienist Walter Gonzalez (WG) arrives on-site at Montgomery College Campus at 51 Mannakee street, Rockville, MD 20850 to perform Area Air Monitoring and Asbestos Abatement air quality control. Tidewater rep. (WG) meets with BARCO supervisor Wendy Morales to discuss work activities for the shift. There are 21x workers and 1x supervisor onsite, they focus on ceiling tile abatement and clean up in Containment #8, 2nd floor, rm #217 (dance studio).

(0620) Tidewater IH calibrates air sampling pumps @2.0 (LPM)

(0625) Asbestos workers properly suit up wearing disposable coveralls, gloves and HEPA respirators. Once suited up workers enter Containment #8, 2nd floor, rm #217 (dance studio) and continue ceiling tile abatement.

(0635) WA/ EV air samples are started for Containment #8, 2nd floor, rm #217 (dance studio).

(0700) Workers inside Containment #8, 2nd floor, rm #217 (dance studio) continue ceiling tile removal. Removed ceiling tiles are promptly disposed inside asbestos labeled bags. Asbestos bags are taken closer to containment exit by stairwell.

(0800) At this moment all ceiling tiles have been successfully removed and bagged up in Containment #8, 2nd floor, rm #217 (dance studio). Workers now begin fine cleaning entire containment; HEPA vacuums are used to clean metal ceiling grids, light fixtures and surrounding surfaces.

(0845) Airless sprayer is being used to wash down ceiling grids and work areas inside Containment #8, 2nd floor, rm #217 (dance studio). Rags are then used to wipe down ceiling grids, light fixtures, poly walls and containment surfaces.

(0930) Tools and work equipment no longer in use are washed with airless sprayer and wiped down with rags. Decontaminated equipment are passed out of containment through decontamination chamber.

(0945) BARCO now works on evacuating ACM bags from Containment #8, 2nd floor, rm #217 (dance studio). Asbestos filled bags are rinsed, doubled, sealed with gray tape, passed out of containment, labeled with dated stickers and then loaded into asbestos trailer parked in the rear of P.E bldg.

(1050) Asbestos workers exit containment following proper decontamination procedures. Used coveralls are disposed inside asbestos labeled bags, workers then wash off in shower chamber and finally get dressed into street clothing in clean room.

(1100) Break

(1200) All workers return to their designated work areas after break.

(1205) Asbestos workers properly suit up wearing disposable coveralls, gloves and HEPA respirators. Once suited up workers enter Containment #8, 2nd floor, rm #217 (dance studio) and continue fine cleaning.

(1215) BARCO replaces old microtrap pre-filters in Containment #8, 2nd floor, rm #217 (dance studio). Old filters are disposed inside asbestos labeled bags and are then sealed with gray tape.

(1305) WA/ EV air samples are collected from Containment #8, 2nd floor, rm #217 (dance studio).

(1310) Tidewater rep. (WG) properly suits up wearing required PPE and conducts final visual inspection in Containment #8, 2nd floor, rm #217 (dance studio). Poly walls, poly floor, metal ceiling grid, light fixtures, sprinklers, sprinkler plates and surrounding surfaces are thoroughly inspected for loose asbestos debris and ceiling tile dust. Containment #8, 2nd floor, rm #217 (dance studio) is considered to be clean after visual inspection and BARCO supervisor Wendy Morales is given approval for encapsulation.

(1350) Two workers focus on encapsulating Containment #8, 2nd floor, rm #217 (dance studio). Airless sprayer and 5-gallon bucket of bridging encapsulant are used to evenly spray containment surfaces in order to lock down and loose fibers.

(1400) Asbestos workers exit Containment #8, 2nd floor, rm #217 (dance studio) following proper decontamination procedures. Used coveralls are disposed inside asbestos labeled bags, workers then wash off in shower chamber and finally get dressed into street clothing in clean room.

(1430) Work areas are cleaned, trash debris are disposed in trash bags. Tidewater IH WG performs pcm air sample analysis; results do not indicate elevated fiber concentrations.

Total ACM bags from Containment #8, 2nd floor, rm #217 (dance studio) = 325x

Reviewed by:__WG_____

02-08-2020

TIDEWATER INC

EXHIBIT B

ASBESTOS ABATEMENT CHECKLIST (Daily)

Building:	Physical Education bldg.	**Project**:	Montgomery College (Rockville) #5089-016
Location:	Containment #8, 2nd floor, rm #217 (dance studio)	**Date**:	02/08/2020
Removal Contractor:	. BARCO	**Time Inspected**:	06:40
Monitoring:	Walter Gonzalez (Tidewater)	**Time Removal Began**:	06:30

Inspection Category	Activity to be checked	Within Limits	Problem Encountered	Inspection Category	Activity to be checked	Within Limits	Problem Encountered
1. Work Site Isolation	**a.** Perimeter Barrier	✓			d. HEPA Vacuum in use	✓	
	b. Decontamination Curtains	✓			**e.** Material Kept wet until bagged	✓	
	c. Seals around ducts, windows and doors	✓		**3. Worker Protection**	a. Disposable Clothing used one time	✓	
	d. Vertical and Horizontal Openings	✓			b. Proper NIOSH Respirators	**Disp** **HEPA** ✓ **PAPR**	
	e. Negative Air Machine" in use?	✓			c. Proper Decontamination sequence followed	✓	
	f. Negative pressure greater than 0.02"	✓		**4. Showers**	**a.** Function? **b.** Soap & Towels? **c.** Used each Departure?	✓	
2. Signage	**a.** Caution signs at vestibule entry	✓		**5. Work Habits In Work Area**	**d.** No smoking **e.** No eating/drinking	✓	
	b. OSHA ASBESTOS SIGN	✓		6. **Work Practices**	a. Hammers, Saws, etc NOT in use b. Removed Material Promptly Bagged c. Debris Stored Properly	✓	
	c. Dumpster, drums and bags labeled	✓					

FIELD NOTES: (Describe any problems encountered)

NONE

EXHIBIT C

FINAL INSPECTION OF ASBESTOS ABATEMENT CHECKLIST

Building:	Physical Education Bldg.	**Project**:	Montgomery College (Rockville)
Location:	Containment #8, 2nd floor, rm #217 (dance studio)	**Job No.**:	5089-016
Removal Contractor:	BARCO	**Date:** 02-08-2020 **Time Inspected:** 13:05 **Time Completed:** 13:50	
Monitoring:	Walter Gonzalez (Tidewater)	**Analyzed On-Site**: N/A **Laboratory:** ✓	

Inspection Category	Activity to bechecked	Within Limits	Problem Encountered	Bulk Samples: None.
1. Residual Dust on:	a. Floor	✓		
	b. Horizontal Surface	✓		FINAL AIR SAMPLING: If all other tests and situations appear to be satisfactory. The final air tests will be taken.
	c. Pipes	✓		Location: **SEE ATTACHED PCM DATA SHEET FOR DETAILS**
	d. Ventilation Equipment	✓		Volume (liters): **SEE ATTACHED PCM DATA SHEET FOR DETAILS**
	e. Vertical Surface	✓		Flow Rate (Liters/mi
	f. Ductwork	✓		Fiber/Filter
	g. Registers	✓		Fiber/cc
	h. Lights	✓		**Analyst Analyzing Sample:** **EMSL** **DATE**: 02/10/2020

Field Notes: (Describe any problems encountered during final inspection)

NONE

TIDEWATER INC

6625 Selnick Drive, Suite A, Elkridge, Maryland 21075

Phone: (410)-540-8700 Fax (410)-997-8713

DAILY REPORT

CLIENT: Montgomery College (Rockville)

JOB NUMBER: 5089-016

PROJECT NAME: Physical Education bldg.

DATE: 2-10-2020

ON-SITE FROM: 0600 TO: 1630 LUNCH:_____

EXPENSES:_____

TOTAL HOURS:_____10_____ MILEAGE:_____

EMPLOYEE: Walter Gonzalez

SCOPE OF WORK:

Containment #8, 2nd floor, rm #217 (dance studio) – BARCO performs containment set up

1st floor containment by main entrance – BARCO performs ceiling tile abatement

1st floor, rm #137B (fitness center) entrance – BARCO performs work area set up

SUMMARY OF ACTIVITIES:

(0600) Tidewater, Inc. Industrial Hygienist Walter Gonzalez (WG) arrives on-site at Montgomery College Campus at 51 Mannakee street, Rockville, MD 20850 to perform Area Air Monitoring and Asbestos Abatement air quality control. Tidewater rep. (WG) meets with BARCO supervisor Gustavo Morales to discuss work activities for the shift. There are 15x workers and 1x supervisor onsite, BARCO will continue abatement in containment located by first floor main entrance. Active containment will be monitored by Tidewater rep. (Oscar Kahawita). BARCO will also be tearing down Containment #8, 2nd floor, rm #217 (dance studio).

(0630) Abatement workers properly suit up wearing disposable coveralls, gloves and HEPA respirators. Once suited up workers enter 1st floor containment by main entrance and continue ceiling tile removal.

(0730) Workers disassemble three stage decontamination chambers from Containment #8, 2nd floor, rm #217 (dance studio). PVC pipes used to hold up poly pop-ups are taped together; water hose is disconnected from metal shower chamber, rolled up and taped up.

(0815) Scaffolds are carefully disassemble from stairway located in the entrance of existing Containment #8, 2nd floor, rm #217 (dance studio). Pins from scaffold braces are unlocked and passed down from top to bottom of steps.

(0900) 6 mil poly critical barriers are used to cover microtrap openings in order to avoid cross contamination during transportations.

(1000) Workers inside 1st floor containment by main entrance use 8 ft ladders to reach ceiling level. Ceiling tiles are taken down from metal grids in whole sections as much as possible. Airless sprayer is closely used to keep asbestos and containment surfaces wet with amended water.

(1050) Asbestos workers exit containment located on first floor by main entrance following proper decontamination procedures. Used coveralls are disposed inside asbestos labeled bags, workers then wash off in shower chamber and finally get dressed into street clothing in clean room.

(1100) Break

(1200) All workers return to their designated work areas after break.

(1205) Asbestos workers properly suit up wearing disposable coveralls, gloves and HEPA respirators. Once suited up workers enter containment located on the first floor by main entrance.

(1300) Two workers focus on setting up poly walls in 1st floor, rm #137B (fitness center) entrance. This poly barrier is set up in order to isolate area containing ceiling tiles; all fitness equipment is moved over to open area and out of BARCO work area.

(1400) BARCO workers use 8 ft ladders to reach ceiling level located in 2nd floor, rm #217 (dance studio). Poly wall barriers are cut into sections that will fit inside asbestos labeled bags.

(1500) BARCO abatement workers focus on bagging up ceiling tiles that have been removed. Ceiling tiles are kept wet and then disposed inside asbestos labeled bags and sealed with gray tape.

(1600) Asbestos workers exit Containment #1, 2nd floor men's locker area following proper decontamination procedures. Used coveralls are disposed inside asbestos labeled bags, workers then wash off in shower and finally get dressed into street clothing in clean room.

(1630) Work areas are cleaned for the shift, trash debris are disposed in trash bags. BARCO crew departs project-site.

Tidewater IH WG performs pcm air sample analysis; results do not indicate elevated fiber concentrations.

Reviewed by:__WG_____

02-10-2020

TIDEWATER INC

ATTACHMENT B

Relevant Licenses/Certifications

ABIH®

american board of industrial hygiene®

organized to improve the practice of industrial hygiene
proclaims that

Skandakumar Harshanath Abeyesekere

having met all requirements of
education, experience and examination, and
ongoing maintenance,
is hereby certified in the

COMPREHENSIVE PRACTICE
of
INDUSTRIAL HYGIENE

and has the right to use the designations

CERTIFIED INDUSTRIAL HYGIENIST

CIH®

Certificate Number	**9928 CP**
Awarded:	**May 11, 2011**
Expiration Date:	**December 1, 2021**

Susan Ripple
Chair, ABIH

Chief Executive Officer, ABIH

ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

Approval Number: 21 14 01

Certificate of Achievement

Awarded to

Asoka Kahawita

In recognition of successful completion of the course entitled

ASBESTOS BUILDING INSPECTOR REVIEW

A 4-Hour annual review program of study presented in accordance with the provisions of the U.S Environmental Protection Agency Model Accreditation Plan 40 CFR Part 763, Appendix C to SUBPART E, for Accreditation under TSCA Title II

19-039	ENVIRONMENTAL • GEOTECHNICAL BUILDING SCIENCES • MATERIALS TESTING	Clayton E. Miller
Certificate Number	Location: Columbia, MD	Clayton Miller Course Instructor/ Director
January 15, 2019	January 15, 2019	January 15, 2020
Course Date	Examination Date	Expiration Date

9231 Rumsey Road Columbia, Maryland 21045 410-381-0232 (O) 410-381-8908 (F)

Asbestos License

Asoka Kahawita
Name

Signature

Inspector Review
Course Title

19002271

Course Date: 01/15/2019
Exp Date: 01/15/2020
Exam Date: 02/14/2019

STATE OF MARYLAND

ATC
Training Provider

9231 Rumsey Road
Address

Columbia,MD 21045
City, State, Zip

410-381-0232
Phone

Lorraine Anderson
Name of Training Director

For additional information, call MDE (410) 537-3200

ATC ASSOCIATES INC.

9231 RUMSEY ROAD COLUMBIA, MD 21045 (410) 381-0232

CERTIFICATE OF ACHIEVEMENT

AWARDED TO

ASOKA KAHAWITA

IN RECOGNITION OF COMPLETION OF

COLLECTING AND ANALYZING ASBESTOS AIR SAMPLES

A NIOSH 582 EQUIVALENT COURSE

A CONCENTRATED PROGRAM OF STUDY ON THE NIOSH 7400 METHOD
PRESENTED IN ACCORDANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH
ADMINISTRATION REGULATIONS 29 CFR 1926.1101 AND 29 CFR 1910.1001, APPENDIX A

PRESENTED BY

CA06049
CERTIFICATE #

July 23-27, 2007
COURSE DATES

INSTRUCTOR

Clayton E. Miller
COURSE DIRECTOR

ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

Approval Number: 21 14 01

Certificate of Achievement

Awarded to

Walter Gonzalez

In recognition of successful completion of the course entitled

ASBESTOS ABATEMENT SUPERVISOR REVIEW

An 8-Hour annual refresher program of study presented in accordance with the provisions of the U.S Environmental Protection Agency Model Accreditation Plan 40 CFR Part 763, Appendix C to SUBPART E, for Accreditation under TSCA Title II

ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

19-834
Certificate Number

Location: Columbia, MD

December 21, 2019
Examination Date

Clayton E. Miller Course Instructor

December 21, 2019
Course Date

December 21, 2020
Expiration Date

Carla M. Gomez Course Director

9231 Rumsey Road Columbia, Maryland 21045 410-381-0232

Soil and Land Use Technology, Inc.

hereby certifies that

Walter Gonzalez

has successfully completed the course in

NIOSH 582 Equivalent Course

Airborne Sampling and Evaluation Techniques

Coursework included a study of the NIOSH 7400 Method and OSHA Reference Method as specified in 29CFR1010.1001 and 29CFR1926.58; Appendices A & B

Date of Certification: March 25, 2005

Managing Instructor

Course Director

4740 Corridor Place, Suite E. Beltsville, MD 20705 · (301) 595-3783

Asbestos Analysts Registry
AAT Performance Results Report

Tidewater, Inc.
6625 Selnick Dr Ste A
Elkridge, MD 21075

Post Date: 10/24/2019
Organization ID: REG-152002

REPORT OF PERFORMANCE FOR ROUND #131, ORGANIZATION #REG-152002

The following individuals have met all the requirements* for Registration in the Asbestos Analysts Registry (AAR) and are listed as Registered Analysts:

ID	Name	RESULTS (f/mm²) FOR THE CURRENT ROUND (131)								Outliers			Performance
										131	130	TOT	
8537	Skanda Abeyesekere	1	510	2	401	3	425	4	723~	1	1	2	Acceptable
8540	Kevin Rogers	1	290	2	245	3	344	4	212~	1	1	2	Acceptable
9171	Walter Gonzalez	1	344	2	283	3	364	4	255~	1	1	2	Acceptable
9172	Asoka Kahawita	1	312	2	300	3	366	4	160	0	0	0	Acceptable

The determination of outliers for the above results is based on the following performance limits:

Reference Values for Round

Round	Sample ID	Reference Mean	Lower Limit	Upper Limit
131	1	422	207	714
131	2	323	158	546
131	3	409	200	691
131	4	120	59	202

***Criteria for listing as a Registered Analyst:**
1. The organization's application shall be reviewed and approved by an AAR Subject Matter Expert and must meet all the requirements of the current AAR Policy and NIOSH 7400 method.

2. An analyst's application shall be reviewed and approved by an AIHA Registry Programs Staff Reviewer and must have completed two (2) consecutive AAT rounds with no greater than 2 outliers combined.

Note, Registration letters are sent to newly Registered Analysts within 10 business days from the date the results of the AAT round in which the analyst gains proficiency are posted.

Legend:
"--" denotes that the analyst did not submit data (resulting in 4 outliers).
"~" denotes that a sample ID or sample result was not within acceptable range.
"X" denotes that the analyst was not enrolled in the specified round at the time of testing.
"E" denotes an approved excused absence.
"+" denotes that the analyst's results are from the re-test round.

ATTACHMENT C

Final Clearance TEM Analytical Results

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: 192001134
Customer ID: TIDE50
Customer PO:
Project ID:

Attention: Skanda Abeyeskere
Tidewater, Inc.
6625 Selnick Drive
Suite A
Elkridge, MD 21075

Project: PE BUILDING MC MONTGOMERY COLLEGE

Phone: (410) 540-8700
Fax: (410) 997-8713
Received Date: 01/30/2020 15:15 PM
Analysis Date: 01/31/2020
Collected Date: 01/30/2020

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm^2)	Non Asb	Asbestos Type(s)	#Structures ≥0.5μ < 5μ	#Structures ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm^2)	Asbestos Concentration (S/cc)
1302005089016 D13 *192001134-0001*	INSIDE CONTAINMENT (1-B) RM 115 WOMENS	1210.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049

Analyst(s)

Joe Centifonti (1)

Joe Centifonti, Laboratory Manager
or other approved signatory

Initial report from: 01/31/2020 12:19 PM

OrderID: 192001134

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 192001134

EMSL ANALYTICAL, INC.
10768 BALTIMORE AVE
BELTSVILLE, MD 20705
PHONE: (301) 937-5700
FAX: (301) 937-5701

Company : Tidewater, Inc.	**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 6625 Selnick Drive, Suite-A	
City: Elkridge **State/Province:** MD	**Zip/Postal Code:** 21075 **Country:** USA
Report To (Name): Skanda Abeyeskere	**Fax #:** 410-997-8713
Telephone #: 443-983-0362 / 410-540-8700	**Email Address:** SK + OK
Project Name/Number: PE-Building - MC-Montgomery College, Rockville Campus, Rockville Maryland	
Please Provide Results: ☐ Fax ☐ Email	**Purchase Order:** **U.S. State Samples Taken:**

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hours ☐ 6 Hours ☒ 24 Hrs ☐ 3 Hrs ☐ 3 Days ☐ 4 Days ☐ 5 Days ☐ 10 Days

*For TEM Air 3 hours/6 hours, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM - Air
- ☒ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Asoka Kahawita (Oscar) **Samplers Signature:** A Kahawita.

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
1302050890 16-D 11	FB / Open	FB	01/30/2020
" D 12	" / Close	"	
" D 13	Inside Containment (1-B) RM-115 Women-Toilet	1210	"

Client Sample # (s): D-11 - D-13 **Total # of Samples:** 2 + 1 (3)

Relinquished (Client): [signature] **Date:** 1/30/2020 **Time:**

Received (Lab): Hamik **Date:** 1/30/20 **Time:** 3:15PM

Comments/Special Instructions: skanda@tideh2o.net, okahawita@yahoo.com,

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: 192001135
Customer ID: TIDE50
Customer PO:
Project ID:

Attention: Skanda Abeyeskere
Tidewater, Inc.
6625 Selnick Drive
Suite A
Elkridge, MD 21075

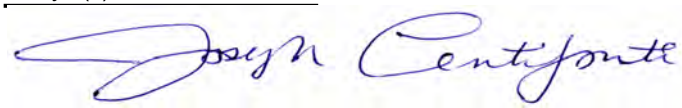
Phone: (410) 540-8700
Fax: (410) 997-8713
Received Date: 01/30/2020 15:15 PM
Analysis Date: 01/31/2020
Collected Date: 01/30/2020

Project: PE BUILDING MC MONTGOMERY COLLEGE ROCKVILLE CAMPUS ROCKVILLE MARYLAND

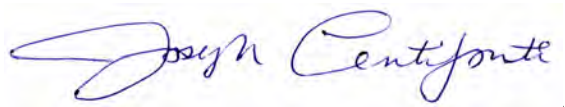
Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm^2)	Non Asb	Asbestos Type(s)	#Structures ≥0.5μ < 5μ	#Structures ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm^2)	Asbestos Concentration (S/cc)
13020 5089016 D10 *192001135-0001*	INSIDE CONTAINMENT 02 / RM 147 STORAGE / CORRIDOR	1220.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
13020 5089016 D11 *192001135-0002*	INSIDE CONTAINMENT 02 / RM 147 STORAGE / CORRIDOR	1220.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049

Analyst(s)



Joe Centifonti (2)



Joe Centifonti, Laboratory Manager
or other approved signatory

Initial report from: 01/31/2020 12:21 PM

OrderID: 192001135

EMSL ANALYTICAL, INC.
LABORATORY•PRODUCTS•TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 192001135

EMSL ANALYTICAL, INC.
10768 BALTIMORE AVE
BELTSVILLE, MD 20705
PHONE: (301) 937-5700
FAX: (301) 937-5701

Company : Tidewater, Inc.		**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments**	
Street: 6625 Selnick Drive, Suite-A		*Third Party Billing requires written authorization from third party*	
City: Elkridge	**State/Province:** MD	**Zip/Postal Code:** 21075	**Country:** USA
Report To (Name): Skanda Abeyeskere		**Fax #:** 410-997-8713	
Telephone #: 443-983-0362 / 410-540-8700		**Email Address:** 5k + ok	
Project Name/Number: PE-Building - MC-Montgomery College, Rockville Campus, Rockville Maryland			
Please Provide Results: ☐ Fax ☐ Email	**Purchase Order:**	**U.S. State Samples Taken:**	

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hours ☐ 6 Hours ☒ 24 Hrs ☐ 48 Hrs ☐ 3 Days ☐ 4 Days ☐ 5 Days ☐ 10 Days

**For TEM Air 3 hours/6 hours, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air
☐ NIOSH 7400
☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
☐ PLM EPA 600/R-93/116 (<1%)
☐ PLM EPA NOB (<1%)
Point Count
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
Point Count w/Gravimetric
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
☐ NYS 198.1 (friable in NY)
☐ NYS 198.6 NOB (non-friable-NY)
☐ NIOSH 9002 (<1%)

TEM - Air
☒ AHERA 40 CFR, Part 763
☐ NIOSH 7402
☐ EPA Level II
☐ ISO 10312

TEM - Bulk
☐ TEM EPA NOB
☐ NYS NOB 198.4 (non-friable-NY)
☐ Chatfield SOP
☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
Fibers >10µm ☐ Waste ☐ Drinking
All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
☐ Microvac - ASTM D 5755
☐ Wipe - ASTM D6480
☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
☐ PLM CARB 435 - A (0.25% sensitivity)
☐ PLM CARB 435 - B (0.1% sensitivity)
☐ TEM CARB 435 - B (0.1% sensitivity)
☐ TEM CARB 435 - C (0.01% sensitivity)
☐ EPA Protocol (Semi-Quantitative)
☐ EPA Protocol (Quantitative)

Other:
☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Asoka Kahawita (Oscar) **Samplers Signature:**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
130 20 5089016 - D07	FB - Open	FB	01/30/2020
" - D08	" - Close	FB	
" - D10	Inside Containment-02 / RM-147 Storag/Corridor	1220	"
" - D11	" " / " "	1220	"

Client Sample # (s): D07 - D-11 **Total # of Samples:** 2+2 (4)

Relinquished (Client): **Date:** 1/30/2020 **Time:**

Received (Lab): Hallmic **Date:** 1/30/20 **Time:** 3:15PM

Comments/Special Instructions: skanda@tideh2o.net, okahawita@yahoo.com,

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: 192001136
Customer ID: TIDE50
Customer PO:
Project ID:

Attention: Skanda Abeyeskere
Tidewater, Inc.
6625 Selnick Drive
Suite A
Elkridge, MD 21075

Phone: (410) 540-8700
Fax: (410) 997-8713
Received Date: 01/30/2020 15:15 PM
Analysis Date: 01/31/2020
Collected Date: 01/30/2020

Project: PE BUILDING MC MONTGOMERY COLLEGE ROCKVILLE CAMPUS ROCKVILLE MARYLAND

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm^2)	Non Asb	Asbestos Type(s)	#Structures ≥0.5μ < 5μ	#Structures ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm^2)	Asbestos Concentration (S/cc)
21 13020 *192001136-0001*	CONTAINMENT #1 2ND FLOOR MENS LOCKERS	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
22 13020 *192001136-0002*	CONTAINMENT #1 2ND FLOOR MENS LOCKERS	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
23 13020 *192001136-0003*	CONTAINMENT #1 2ND FLOOR MENS LOCKERS	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049

Analyst(s)

Joe Centifonti (3)

Joe Centifonti, Laboratory Manager
or other approved signatory

Initial report from: 01/31/2020 12:21 PM

OrderID: 192001136

192001136

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*:

Skanda.Abeyeskere@tideh2o.net

EMSL ANALYTICAL, INC.
10768 BALTIMORE AVE
BELTSVILLE, MD 20705
PHONE: (301) 937-5700
FAX: (301) 937-5701

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Company : Tidewater, Inc.		**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments**	
Street: 6625 Selnick Drive, Suite-A		*Third Party Billing requires written authorization from third party*	
City: Elkridge	**State/Province:** MD	**Zip/Postal Code:** 21075	**Country:** USA
Report To (Name): Skanda Abeyeskere		**Fax #:** 410-997-8713	
Telephone #: 443-983-0362 / 410-540-8700		**Email Address:** [redacted]	
Project Name/Number: PE-Building - MC-Montgomery College, Rockville Campus, Rockville Maryland			
Please Provide Results: ☑ Fax ☑ Email	**Purchase Order:**	**U.S. State Samples Taken:**	

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hours ☐ 6 Hours ☑ 24 Hrs ☐ 48 Hrs ☐ 3 Days ☐ 4 Days ☐ 5 Days ☐ 10 Days

**For TEM Air 3 hours/6 hours, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM - Air
- ☑ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Walter Gonzalez **Samplers Signature:** [signature]

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
Z1-13020-BK	Containment #1, 2nd Floor MENS lockers	1200	@12:15 pm 11/30/2020
Z2-13020-BC	↓ ↓	1200	↓
Z3-13020-FC	↓ ↓	1200	↓
Z4-13020-FB	Field Blank	—	—
Z5-13020-FB	Field Blank	—	—

Client Sample # (s): **Total # of Samples:**

Relinquished (Client): **Date:** **Time:**

Received (Lab): Hamnic **Date:** 11/30/20 **Time:** 3:15pm

Comments/Special Instructions: skanda@tideh2o.net, [redacted]

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: 192001217
Customer ID: TIDE50
Customer PO:
Project ID:

Attention: Skanda Abeyeskere
Tidewater, Inc.
6625 Selnick Drive
Suite A
Elkridge, MD 21075

Phone: (410) 540-8700
Fax: (410) 997-8713
Received Date: 02/01/2020 12:51 PM
Analysis Date: 02/01/2020
Collected Date: 02/01/2020

Project: PE-Building -MC-Montgomery College, Rockville Campus, Rockville Maryland

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	#Structures ≥0.5µ < 5µ	#Structures ≥5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)
21205089016-F07 *192001217-0001*	Inside Containment/ Weight Room -140 W/end	1257.00	0.0650	0	None Detected	0	0	0.0047	<15.00	<0.0047
21205089016-F08 *192001217-0002*	Inside Containment/ Weight Room -140 S/end	1270.00	0.0650	0	None Detected	0	0	0.0047	<15.00	<0.0047
21205089016-F09 *192001217-0003*	Inside Containment/ Weight Room -140 Center	1280.00	0.0650	0	None Detected	0	0	0.0046	<15.00	<0.0046
21205089016-F10 *192001217-0004*	Inside Containment/ Weight Room -140 - MPCH	1274.00	0.0650	0	None Detected	0	0	0.0046	<15.00	<0.0046

Analyst(s)

Emily Baker

Emily Baker (4)

Joe Centifonti, Laboratory Manager
or other approved signatory

Initial report from: 02/01/2020 16:25 PM

OrderID: 192001217

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 192001217

EMSL ANALYTICAL, INC.
10768 BALTIMORE AVE
BELTSVILLE, MD 20705
PHONE: (301) 937-5700
FAX: (301) 937-5701

Company : Tidewater, Inc.		**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments**	
Street: 6625 Selnick Drive, Suite-A		*Third Party Billing requires written authorization from third party*	
City: Elkridge	**State/Province:** MD	**Zip/Postal Code:** 21075	**Country:** USA
Report To (Name): Skanda Abeyeskere		**Fax #:** 410-997-8713	
Telephone #: 443-983-0362 / 410-540-8700		**Email Address:** SK + OK	
Project Name/Number: PE-Building - MC-Montgomery College, Rockville Campus, Rockville Maryland			
Please Provide Results: ☐ Fax (N) Email	**Purchase Order:**	**U.S. State Samples Taken:**	

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hours | (X) 6 Hours | 24 Hrs | ☐ 48 Hrs | ☐ 3 Days | ☐ 4 Days | ☐ 5 Days | ☐ 10 Days

**For TEM Air 3 hours/6 hours, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM - Air
- (N) AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Asoka Kahawita (Oscar) **Samplers Signature:**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
21205089016-F05	Field Blank / Opened	FB	02/01/2020
" -F06	" " / Close	"	
" -F07	Inside-Containment/Weight Room-140. 10/end	1257	
" -F08	" - " / " " - 5/end	1270	
" -F09	" - " / " " - Center	1280	
" -F10	" - " / " " - MACH	1274	
—	—	—	
—	—	—	

Client Sample # (s): F05 - F06 **Total # of Samples:** 4+2 (6)

Relinquished (Client): **Date:** 02/01/2020 **Time:**

Received (Lab): Courtesy **Date:** **Time:**

Comments/Special Instructions: skanda@tideh2o.net, okahawita@yahoo.com,

RECEIVED
EMSL ANALYTICAL, INC.
BELTSVILLE, MD
2020 FEB 03 P 12:51

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: 192001223
Customer ID: TIDE50
Customer PO:
Project ID:

Attention: Skanda Abeyeskere
Tidewater, Inc.
6625 Selnick Drive
Suite A
Elkridge, MD 21075

Phone: (410) 540-8700
Fax: (410) 997-8713
Received Date: 02/03/2020 08:30 AM
Analysis Date: 02/03/2020
Collected Date: 02/02/2020

Project: PE-Building- MC-Montgomery College, Rockville Campus, Rockville Maryland

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	#Structures ≥0.5µ < 5µ	#Structures ≥5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)
2220SO89016-G-03	Inside containment- 1/A (Dance Studio- Rm 121-B/Mech)	1238.00	0.0650	0	None Detected	0	0	0.0048	<15.00	<0.0048
192001223-0001										
2220SO89016-G-04	Inside containment- 1/A (Dance Studio- Rm 121-/S-End)	1250.00	0.0650	0	None Detected	0	0	0.0047	<15.00	<0.0047
192001223-0002										
2220SO89016-G-05	Inside containment- 1/A (Dance Studio- Rm 121-/Center)	1254.00	0.0650	0	None Detected	0	0	0.0047	<15.00	<0.0047
192001223-0003										
2220SO89016-G-06	Inside containment- 1/A (Dance Studio- Rm 119-/Storage)	1260.00	0.0650	0	None Detected	0	0	0.0047	<15.00	<0.0047
192001223-0004										
2220SO89016-G-07	Inside containment- 1/A (Dance Studio- Rm 119-/Corridor)	1244.00	0.0650	0	None Detected	0	0	0.0048	<15.00	<0.0048
192001223-0005										

Analyst(s)

Joe Centifonti (5)

Joe Centifonti, Laboratory Manager
or other approved signatory

Initial report from: 02/03/2020 12:36 PM

OrderID: 192001223

EMSL ANALYTICAL, INC
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 192001223

Company : Tidewater, Inc.		**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments**	
Street: 6625 Selnick Drive, Suite-A		*Third Party Billing requires written authorization from third party*	
City: Elkridge	**State/Province:** MD	**Zip/Postal Code:** 21075	**Country:** USA
Report To (Name): Skanda Abeyeskere		**Fax #:** 410-997-8713	
Telephone #: 443-983-0362 / 410-540-8700		**Email Address:** SK + OK	
Project Name/Number: PE-Building - MC-Montgomery College, Rockville Campus, Rockville Maryland			
Please Provide Results: ☐ Fax ☒ Email	**Purchase Order:**	**U.S. State Samples Taken:**	

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hours ☒ 6 Hours ☐ 24 Hrs ☐ 48 Hrs ☐ 3 Days ☐ 4 Days ☐ 5 Days ☐ 10 Days

*For TEM Air 3 hours/6 hours, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0 1%)
- ☐ NYS 198 1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM - Air
- ☒ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0 25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0 01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Asoka Kahawita (Oscar) **Samplers Signature:**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
22205089016-G-01	Filed Blank - Opened	FB	02/02/2020
" -G-02	" " - Close	"	
" -G03	Inside Containment-1/A Dance Studio-Rm-121-B/Mech	1238	
" -G04	Inside-Containment-1/A(Dance-Studio-Rm-121 /S-End	1250	
" -G05	" " -11 (" - " - " /Center	1254	
" -G06	" " -1 (" - " -Rm119 /Storage	1260	
" -G07	" " -" (" - " - Rm119 /Corridor	1244	
"	"	"	"

Client Sample # (s): G01 - G07 **Total # of Samples:** 5+2 (7)

Relinquished (Client): **Date:** 02/02/2020 **Time:**

Received (Lab): Courier Dropbox **Date:** 2/3/2020 **Time:** 8:30am

Comments/Special Instructions: skanda@tideh2o.net, okahawita@yahoo.com,

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: 192001243
Customer ID: TIDE50
Customer PO:
Project ID:

Attention: Skanda Abeyeskere
Tidewater, Inc.
6625 Selnick Drive
Suite A
Elkridge, MD 21075

Phone: (410) 540-8700
Fax: (410) 997-8713
Received Date: 02/03/2020 11:48 AM
Analysis Date: 02/03/2020
Collected Date: 02/03/2020

Project: PE BUILDING MC MONTGOMERY COLLEGE ROCKVILLE CAMPUS ROCKVILLE MARYLAND

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	#Structures ≥0.5µ < 5µ	#Structures ≥5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)
Z1 020320 *192001243-0001*	2ND FLOOR CONTAINMENT #2 CENTER STAIRWELL	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
Z2 020320 *192001243-0002*	2ND FLOOR CONTAINMENT #2 CENTER STAIRWELL	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
Z3 020320 *192001243-0003*	2ND FLOOR CONTAINMENT #2 CENTER STAIRWELL	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
Z4 020320 *192001243-0004*	2ND FLOOR CONTAINMENT #2 CENTER STAIRWELL	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
Z5 020320 *192001243-0005*	2ND FLOOR CONTAINMENT #2 CENTER STAIRWELL	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049

Analyst(s)

Joe Centifonti (5)

Joe Centifonti, Laboratory Manager
or other approved signatory

Initial report from: 02/03/2020 17:55 PM

OrderID: 192001243

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

*24 hr TAT

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 192001243

EMSL ANALYTICAL, INC.
10768 BALTIMORE AVE
BELTSVILLE, MD 20705
PHONE: (301) 937-5700
FAX: (301) 937-5701

Company : Tidewater, Inc.		**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments**	
Street: 6625 Selnick Drive, Suite-A		*Third Party Billing requires written authorization from third party*	
City: Elkridge	**State/Province:** MD	**Zip/Postal Code:** 21075	**Country:** USA
Report To (Name): Skanda Abeyeskere		**Fax #:** 410-997-8713	
Telephone #: 443-983-0362 / 410-540-8700		**Email Address:** email to everyone in Comment section	
Project Name/Number: PE-Building - MC-Montgomery College, Rockville Campus, Rockville Maryland			
Please Provide Results: ☐ Fax ☑ Email	**Purchase Order:**	**U.S. State Samples Taken:**	

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hours ☐ ~~6 Hours~~ ☑ 24 Hrs ☐ 48 Hrs ☐ 3 Days ☐ 4 Days ☐ 5 Days ☐ 10 Days

**For TEM Air 3 hours/6 hours, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM - Air
- ☑ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐ —

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: WALTER GONZALEZ **Samplers Signature:**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
Z1-020320	2nd floor, Containment #2 Center Stairwell	1200	2/3/2020 @6:15am
Z2-020320			
Z3-020320			
Z4-020320			
Z5-020320			
Z6-020320	Field Blank	—	—
Z7-020320	Field Blank	—	—

Client Sample # (s): - **Total # of Samples:**

Relinquished (Client): **Date:** **Time:**

Received (Lab): Hallmk **Date:** 2/3/20 **Time:** 11:48AM

Comments/Special Instructions: skanda@tideh2o.net, okahawita@yahoo.com, sharmila.pradhan@montgomerycollege.edu, michael.rocke@montgomerycollege.edu

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: 192001384
Customer ID: TIDE50
Customer PO:
Project ID:

Attention: Skanda Abeyeskere
Tidewater, Inc.
6625 Selnick Drive
Suite A
Elkridge, MD 21075
Project: MONTGOMERY COLLEGE

Phone: (410) 540-8700
Fax: (410) 997-8713
Received Date: 02/05/2020 12:14 PM
Analysis Date: 02/05/2020
Collected Date: 02/05/2020

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	#Structures ≥0.5μ < 5μ	#Structures ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)
Z1 02052020	INSIDE CONTAINMENT #3 2ND FLOOR CORRIDOR 298/299	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
192001384-0001										
Z2 02052020	INSIDE CONTAINMENT #3 2ND FLOOR CORRIDOR 298/299	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
192001384-0002										
Z3 02052020	INSIDE CONTAINMENT #3 2ND FLOOR CORRIDOR 298/299	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
192001384-0003										
Z4 02052020	INSIDE CONTAINMENT #3 2ND FLOOR CORRIDOR 298/299	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
192001384-0004										
Z5 02052020	INSIDE CONTAINMENT #3 2ND FLOOR CORRIDOR 298/299	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
192001384-0005										

Analyst(s)

Emily Baker

Emily Baker (5)

Joe Centifonti, Laboratory Manager
or other approved signatory

Initial report from: 02/05/2020 16:42 PM

OrderID: 192001384

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 192001384

EMSL ANALYTICAL, INC.
10768 BALTIMORE AVE
BELTSVILLE, MD 20705
PHONE: (301) 937-5700
FAX: (301) 937-5701

Company: Tidewater Inc.

Street: 6625 Schaick dr. Suite A

City: Elkridge State/Province: MD Zip/Postal Code: 21075 Country: U.S.A!

Report To (Name): Skanda Abayesekera Telephone #:

Email Address: Skanda.Abeyesekera@tidehta.net Fax #: Purchase Order:

Project Name/Number: Montgomery College, Rockville Please Provide Results: ☐ Fax ☑ Email

U.S. State Samples Taken: CT Samples: ☐ Commercial/Taxable ☐ Residential/Tax Exempt

EMSL-Bill to: ☐ Same ☐ Different
If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

Turnaround Time (TAT) Options* -- Please Check

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

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air ☐ Check if samples are from NY
☐ NIOSH 7400
☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
☐ PLM EPA 600/R-93/116 (<1%)
☐ PLM EPA NOB (<1%)
Point Count
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
Point Count w/Gravimetric
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
☐ NYS 198.1 (friable in NY)
☐ NYS 198.6 NOB (non-friable-NY)
☐ NIOSH 9002 (<1%)

TEM - Air ☐ 4-4.5hr TAT (AHERA only)
☑ AHERA 40 CFR, Part 763
☐ NIOSH 7402
☐ EPA Level II
☐ ISO 10312

TEM - Bulk
☐ TEM EPA NOB
☐ NYS NOB 198.4 (non-friable-NY)
☐ Chatfield SOP
☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM -- Water: EPA 100.2
Fibers >10µm ☐ Waste ☐ Drinking
All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
☐ Microvac - ASTM D 5755
☐ Wipe - ASTM D6480
☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
☐ PLM CARB 435 - A (0.25% sensitivity)
☐ PLM CARB 435 - B (0.1% sensitivity)
☐ TEM CARB 435 - B (0.1% sensitivity)
☐ TEM CARB 435 - C (0.01% sensitivity)
☐ TEM Qual. via Filtration Technique
☐ TEM Qual. via Drop-Mount Technique

Other:
☐

☐ Check For Positive Stop -- Clearly Identify Homogenous Group Filter Pore Size (Air Samples): ☐ 0.8µm ☐ 0.45µm

Samplers Name: Walter Gonzalez Samplers Signature:

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
Z1-02052020	Inside-Containment #3, 2nd Floor corridors 298/299	1200	@7:15 AM 2-5-2020
Z2-02052020			
Z3-02052020			
Z4-02052020			
Z5-02052020			
Z6-02052020	Field Blank	—	—
Z7-02052020	Field Blank	—	—

Client Sample # (s): Total # of Samples:

Relinquished (Client): Date: Time:

Received (Lab): Hamimic Date: 2/5/2020 Time: 12:14PM

Comments/Special Instructions:

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: 192001429
Customer ID: TIDE50
Customer PO:
Project ID:

Attention: Skanda Abeyeskere
Tidewater, Inc.
6625 Selnick Drive
Suite A
Elkridge, MD 21075

Project: Montgomery College Rockville

Phone: (410) 540-8700
Fax: (410) 997-8713
Received Date: 02/06/2020 10:29 AM
Analysis Date: 02/06/2020
Collected Date: 02/06/2020

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	#Structures ≥0.5µ < 5µ	#Structures ≥5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)
21-2062020	Inside Containment #4, Rm #142 (Pool Office)	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
192001429-0001										

Analyst(s)

Emily Baker

Emily Baker (1)

Joe Centifonti, Laboratory Manager
or other approved signatory

Initial report from: 02/06/2020 13:05 PM

OrderID: 192001429

192001429

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number (*Lab Use Only*):

3 hr TAT

EMSL ANALYTICAL, INC.
10768 BALTIMORE AVE
BELTSVILLE, MD 20705
PHONE: (301) 937-5700
FAX: (301) 937-5701

Company: Tidewater Inc.
Street: 6625 Solnick dr. suite. A
City: Elkridge | State/Province: MD | Zip/Postal Code: 21075 | Country: U.S.A.
Report To (Name): Skanda Abeyesekera | Telephone #:
Email Address: SkandaAbeyesekera@tidehro.net | Fax #: | Purchase Order:
Project Name/Number: montgomery college rockville | Please Provide Results: ☐ Fax ☑ Email
U.S. State Samples Taken: | CT Samples: ☐ Commercial/Taxable ☐ Residential/Tax Exempt

EMSL-Bill to: ☐ Same ☐ Different
If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

Turnaround Time (TAT) Options* – Please Check

☑ 3 Hour | ☐ 6 Hour | ☐ 24 Hour | ☐ 48 Hour | ☐ 72 Hour | ☐ 96 Hour | ☐ 1 Week | ☐ 2 Week

**For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air ☐ Check if samples are from NY
☐ NIOSH 7400
☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
☐ PLM EPA 600/R-93/116 (<1%)
☐ PLM EPA NOB (<1%)
Point Count
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
Point Count w/Gravimetric
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
☐ NYS 198.1 (friable in NY)
☐ NYS 198.6 NOB (non-friable-NY)
☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
☑ AHERA 40 CFR, Part 763
☐ NIOSH 7402
☐ EPA Level II
☐ ISO 10312

TEM - Bulk
☐ TEM EPA NOB
☐ NYS NOB 198.4 (non-friable-NY)
☐ Chatfield SOP
☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
Fibers >10µm ☐ Waste ☐ Drinking
All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
☐ Microvac - ASTM D 5755
☐ Wipe - ASTM D6480
☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
☐ PLM CARB 435 - A (0.25% sensitivity)
☐ PLM CARB 435 - B (0.1% sensitivity)
☐ TEM CARB 435 - B (0.1% sensitivity)
☐ TEM CARB 435 - C (0.01% sensitivity)
☐ TEM Qual. via Filtration Technique
☐ TEM Qual. via Drop-Mount Technique

Other:
☐

☐ Check For Positive Stop – Clearly Identify Homogenous Group | Filter Pore Size (Air Samples): ☐ 0.8µm ☐ 0.45µm

Samplers Name: | Samplers Signature:

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
21-2062020	Inside Containment #4, Rm #142 (pool office)	1200	@6:40 02/06/2020
22-2062020	Field Blank	—	—

Client Sample # (s): | Total # of Samples:
Relinquished (Client): | Date: | Time:
Received (Lab): CA Howard W/I | Date: | Time:
Comments/Special Instructions:

RECEIVED
EMSL ANALYTICAL, INC.
BELTSVILLE MD
2020 FEB -6 A 10:29

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: 192001431
Customer ID: TIDE50
Customer PO:
Project ID:

Attention: Skanda Abeyeskere
Tidewater, Inc.
6625 Selnick Drive
Suite A
Elkridge, MD 21075
Project: Montgomery College #5089 -016

Phone: (410) 540-8700
Fax: (410) 997-8713
Received Date: 02/06/2020 10:28 AM
Analysis Date: 02/06/2020
Collected Date: 02/06/2020

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	#Structures ≥0.5µ < 5µ	#Structures ≥5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)
23-2062020	Inside Containment #5, Rm#143 (Storage)	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
192001431-0001										
24-2062020	Inside Containment #5, Rm#143 (Storage)	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
192001431-0002										

Analyst(s)

Emily Baker

Emily Baker (2)

Joe Centifonti, Laboratory Manager
or other approved signatory

Initial report from: 02/06/2020 15:48 PM

OrderID: 192001431

192001431

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

24 TAT

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL ANALYTICAL, INC.
10768 BALTIMORE AVE
BELTSVILLE, MD 20705
PHONE: (301) 937-5700
FAX: (301) 937-5701

Company: Tidewater Inc.	EMSL-Bill to: ☐ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 6625 Selrick dr. Suite A	
City: Elkridge / State/Province: MD	Zip/Postal Code: 21075 / Country: U.S.A!
Report To (Name): Skanda Abeyeskere	Telephone #:
Email Address: Skanda.Abeyeskere@tidewater.net	Fax #: / Purchase Order:
Project Name/Number: Montgomery College #5089-016	Please Provide Results: ☐ Fax ☑ Email
U.S. State Samples Taken:	CT Samples: ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* – Please Check

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

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air ☐ Check if samples are from NY
☐ NIOSH 7400
☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
☐ PLM EPA 600/R-93/116 (<1%)
☐ PLM EPA NOB (<1%)
Point Count
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
Point Count w/Gravimetric
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
☐ NYS 198.1 (friable in NY)
☐ NYS 198.6 NOB (non-friable-NY)
☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
☑ AHERA 40 CFR, Part 763
☐ NIOSH 7402
☐ EPA Level II
☐ ISO 10312

TEM - Bulk
☐ TEM EPA NOB
☐ NYS NOB 198.4 (non-friable-NY)
☐ Chatfield SOP
☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
Fibers >10µm ☐ Waste ☐ Drinking
All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
☐ Microvac - ASTM D 5755
☐ Wipe - ASTM D6480
☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
☐ PLM CARB 435 - A (0.25% sensitivity)
☐ PLM CARB 435 - B (0.1% sensitivity)
☐ TEM CARB 435 - B (0.1% sensitivity)
☐ TEM CARB 435 - C (0.01% sensitivity)
☐ TEM Qual. via Filtration Technique
☐ TEM Qual. via Drop-Mount Technique

Other:
☐

☐ Check For Positive Stop – Clearly Identify Homogenous Group | Filter Pore Size (Air Samples): ☐ 0.8µm ☐ 0.45µm

Samplers Name: Walter Gonzalez | Samplers Signature: Walter Gonzalez

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
1 [illegible]	VOID THESE Samples	1200	@6:50AM 02/06/2020
2 [illegible]	Field Blank		
Z3-2062020	Inside Containment #5, Rm #143 (Storage)	1200	@6:50AM 02/06/2020
Z4-2062020	"	"	"
Z5-2062020	Field Blank	—	—

Client Sample # (s): | Total # of Samples:

Relinquished (Client): | Date: | Time:

Received (Lab): CYKoward a/I | Date: | Time:

Comments/Special Instructions: CC: Seagramstwo@yahoo.com

RECEIVED
EMSL ANALYTICAL INC.
BELTSVILLE MD
2020 FEB -6 A 10:28

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: 192001574
Customer ID: TIDE50
Customer PO:
Project ID:

Attention: Skanda Abeyeskere
Tidewater, Inc.
6625 Selnick Drive
Suite A
Elkridge, MD 21075

Project: MONTGOMERY COLLEGE (ROCKVILLE)

Phone: (410) 540-8700
Fax: (410) 997-8713
Received Date: 02/10/2020 08:30 AM
Analysis Date: 02/10/2020
Collected Date: 02/10/2020

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	#Structures ≥0.5µ < 5µ	#Structures ≥5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)
Z1 02092020 *192001574-0001*	INSIDE CONTAINMENT #8 2ND FLOOR RM (DANCE STUDIO) #217	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
Z2 02092020 *192001574-0002*	INSIDE CONTAINMENT #8 2ND FLOOR RM (DANCE STUDIO) #217	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
Z3 02092020 *192001574-0003*	INSIDE CONTAINMENT #8 2ND FLOOR RM (DANCE STUDIO) #217	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049

Analyst(s)

Joe Centifonti (3)

Joe Centifonti, Laboratory Manager
or other approved signatory

Initial report from: 02/10/2020 14:20 PM

OrderID: 192001574

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 192001574

EMSL ANALYTICAL, INC.
10768 BALTIMORE AVE
BELTSVILLE, MD 20705
PHONE: (301) 937-5700
FAX: (301) 937-5701

Company: Tidewater Inc.

Street: 6625 Selnick dr. Suite A

City: Elkridge | State/Province: MD | Zip/Postal Code: 21075 | Country: U.S.A.

Report To (Name): Skanda Abeyesekera

Email Address: Skanda.Abeyesekera@tidewater.net

Project Name/Number: Montgomery College (Rockville)

U.S. State Samples Taken:

EMSL-Bill to: ☐ Same ☐ Different
If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

Telephone #:

Fax #: | Purchase Order:

Please Provide Results: ☐ Fax ☑ Email

CT Samples: ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* – Please Check

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

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air ☐ Check if samples are from NY
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM - Air ☐ 4-4.5hr TAT (AHERA only)
- ☑ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ TEM Qual. via Filtration Technique
- ☐ TEM Qual. via Drop-Mount Technique

Other:
- ☐

☐ Check For Positive Stop – Clearly Identify Homogenous Group | Filter Pore Size (Air Samples): ☐ 0.8µm ☐ 0.45µm

Samplers Name: | Samplers Signature:

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
Z1-02092020	Inside Containment #8, 2nd floor (Dance Studio) Rm # 217	1200	@8:00 am 02/09/2020
Z2-02092020	↓	↓	↓
Z3-02092020	↓	↓	↓
Z4-02092020	Field Blank	—	—

Client Sample # (s): | Total # of Samples:

Relinquished (Client): | Date: | Time:

Received (Lab): Haleem Kanana | Date: 2/10/20 | Time: 8:30 AM

Comments/Special Instructions:

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: 192001735
Customer ID: TIDE50
Customer PO:
Project ID:

Attention: Skanda Abeyeskere
Tidewater, Inc.
6625 Selnick Drive
Suite A
Elkridge, MD 21075

Phone: (410) 540-8700
Fax: (410) 997-8713
Received Date: 02/11/2020 17:02 PM
Analysis Date: 02/13/2020
Collected Date: 02/12/2020

Project: PE - BUILDING - MC - MONTGOMERY COLLEGE, ROCKVILLE CAMPUS, ROCKVILLE, MD

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	#Structures ≥0.5µ < 5µ	#Structures ≥5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)
21220-5089016-Q08 *192001735-0001*	1ST FL CONTAINMENT-5, PEC RM-131-CENTER	1228.00	0.0650	0	None Detected	0	0	0.0048	<15.00	<0.0048
21220-5089016-Q09 *192001735-0002*	1ST FL CONTAINMENT-5, 101 MAIN LOBBY CENTER	1240.00	0.0650	0	None Detected	0	0	0.0048	<15.00	<0.0048
21220-5089016-Q10 *192001735-0003*	1ST FL CONTAINMENT-5, 191 CORRIDOR FROMT OF RM 114 DOOR	1234.00	0.0650	0	None Detected	0	0	0.0048	<15.00	<0.0048
21220-5089016-Q11 *192001735-0004*	1ST FL CONTAINMENT-5, CLASSRM 112 CENTER	1234.00	0.0650	0	None Detected	0	0	0.0048	<15.00	<0.0048
21220-5089016-Q12 *192001735-0005*	1ST FL CONTAINMENT-5, CORRIDOR - FRONT OF RM 107 DOOR	1230.00	0.0650	0	None Detected	0	0	0.0048	<15.00	<0.0048

Analyst(s)

Joe Centifonti (5)

Joe Centifonti, Laboratory Manager
or other approved signatory

Initial report from: 02/13/2020 13:48 PM

OrderID: 192001735

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 192001735

EMSL ANALYTICAL, INC.
LABORATORY•PRODUCTS•TRAINING

Company : Tidewater, Inc.	EMSL-Bill to: ☐ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 6625 Selnick Drive, Suite-A	*Third Party Billing requires written authorization from third party*
City: Elkridge / State/Province: MD	Zip/Postal Code: 21075 / Country: USA
Report To (Name): Skanda Abeyeskere	Fax #: 410-997-8713
Telephone #: 443-983-0362 / 410-540-8700	Email Address: skanda@tideh2o.net, okahawita@yahoo.com,

Project Name/Number: PE-Building - MC-Montgomery College, Rockville Campus, Rockville Maryland

Please Provide Results: ☐ Fax ☒ Email | Purchase Order: | U.S. State Samples Taken:

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hours | ☐ 6 Hours | ☒ 24 Hrs | ☐ 48 Hrs | ☐ 3 Days | ☐ 4 Days | ☐ 5 Days | ☐ 10 Days

*For TEM Air 3 hours/6 hours, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air	TEM - Air	TEM- Dust
☐ NIOSH 7400	☒ AHERA 40 CFR, Part 763	☐ Microvac - ASTM D 5755
☐ w/ OSHA 8hr. TWA	☐ NIOSH 7402	☐ Wipe - ASTM D6480
PLM - Bulk (reporting limit)	☐ EPA Level II	☐ Carpet Sonication (EPA 600/J-93/167)
☐ PLM EPA 600/R-93/116 (<1%)	☐ ISO 10312	**Soil/Rock/Vermiculite**
☐ PLM EPA NOB (<1%)	**TEM - Bulk**	☐ PLM CARB 435 - A (0.25% sensitivity)
Point Count	☐ TEM EPA NOB	☐ PLM CARB 435 - B (0 1% sensitivity)
☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ NYS NOB 198 4 (non-friable-NY)	☐ TEM CARB 435 - B (0.1% sensitivity)
Point Count w/Gravimetric	☐ Chatfield SOP	☐ TEM CARB 435 - C (0 01% sensitivity)
☐ 400 (<0.25%) ☐ 1000 (<0 1%)	☐ TEM Mass Analysis-EPA 600 sec. 2.5	☐ EPA Protocol (Semi-Quantitative)
☐ NYS 198.1 (friable in NY)	**TEM – Water:** EPA 100 2	☐ EPA Protocol (Quantitative)
☐ NYS 198.6 NOB (non-friable-NY)	Fibers >10µm ☐ Waste ☐ Drinking	**Other:**
☐ NIOSH 9002 (<1%)	All Fiber Sizes ☐ Waste ☐ Drinking	☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Asoka Kahawita (Oscar) | **Samplers Signature:** [signature]

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
2122050619016-GO6	FB-Open	FB	02-20-2020
" 07	FB-Closed	FB	
" 08	1st Floor Containment-5, PEC-Room-131-Center	1223	
" 09	1st Floor Containment-5, 101 main Lobby Center	1240	
" 10	1st Floor Containment-5, 191 Corridor Fron Of RM-114 Door	1234	
" 11	1st Floor Containment-5, Classroom-112 Center	1234	
" 12	1st Floor Containment-5, Corridor Front of RM-107 door	1235	

Client Sample # (s): G06 - G12 **Total # of Samples:** 5 + 2 (7)

Relinquished (Client): [signature] **Date:** 02-20-2020 **Time:**

Received (Lab): K. Bosworth Walk In **Date:** **Time:**

Comments/Special Instructions: skanda@tideh2o.net / okahawita@yahoo.com

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: 192002034
Customer ID: TIDE50
Customer PO:
Project ID:

Attention: Skanda Abeyeskere
Tidewater, Inc.
6625 Selnick Drive
Suite A
Elkridge, MD 21075

Phone: (410) 540-8700
Fax: (410) 997-8713
Received Date: 02/19/2020 17:05 PM
Analysis Date: 02/19/2020
Collected Date: 02/19/2020

Project: MONTGOMERY COLLEGE - PE - BLDG, ROCKVILLE CAMPUS, ROCKVILLE, MD

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	#Structures ≥0.5μ < 5μ	#Structures ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)
21920-5089016-W/09 *192002034-0001*	CONTAINMENT-6 1ST FL - MAIN LOBBY - FRONT OF EQUIPMENT RM	1228.00	0.0650	0	None Detected	0	0	0.0048	<15.00	<0.0048
21920-5089016-W/10 *192002034-0002*	CONTAINMENT-6 1ST FL - MECH RM 134A - CENTER LOCATION	1230.00	0.0650	0	None Detected	0	0	0.0048	<15.00	<0.0048
21920-5089016-W/11 *192002034-0003*	CONTAINMENT-6 1ST FL - FRONT OF STAIRS TO 2ND FL LOCATION	1234.00	0.0650	0	None Detected	0	0	0.0048	<15.00	<0.0048
21920-5089016-W/12 *192002034-0004*	CONTAINMENT-6 1ST FL - FRONT OF 133B DOOR CORRIDOR	1230.00	0.0650	0	None Detected	0	0	0.0048	<15.00	<0.0048
21920-5089016-W/13 *192002034-0005*	CONTAINMENT-6 1ST FL - FRONT OF RM 138A IT TO POLL STAIRS	1240.00	0.0650	0	None Detected	0	0	0.0048	<15.00	<0.0048

Analyst(s)

George P. Malone Jr.

George Malone (5)

Joseph Centifonte

Joe Centifonti, Laboratory Manager
or other approved signatory

Initial report from: 02/19/2020 23:07 PM

OrderID: 192002034

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 192002034

Company : Tidewater, Inc.	**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 6625 Selnick Drive, Suite-A	*Third Party Billing requires written authonzation from third party*
City: Elkridge **State/Province:** MD	**Zip/Postal Code:** 21075 **Country:** USA
Report To (Name): Skanda Abeyeskere	**Fax #:** 410-997-8713
Telephone #: 443-983-0362 / 410-540-8700	**Email Address:** okahawita@yahoo.comskanda@tideh2o.net
Project Name/Number: Montgomery College-PE-Building, Rockville Campus, Rockville Maryland	
Please Provide Results: ☐ Fax ☒ Email **Purchase Order:**	**U.S. State Samples Taken:**

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hours ☒ 6 Hours 24 Hrs ☐ 48 Hrs ☐ 3 Days ☐ 4 Days ☐ 5 Days ☐ 10 Days

*For TEM Air 3 hours/6 hours, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0 1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM - Air
- ☒ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0 25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Asoka Kahawita (Oscar) **Samplers Signature:** [signature]

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
192005089016 W07	Filed Blank	Opend	02/19/2020
" W08	Filed Blank	Closed	
" W09	Containment-6, 1st Flr-Main-Lobby Front of Equipment Room.	1228	
" W10	Containment-6, 1st Flr Mech-RM-134A Center Location.	1230	
" W11	Containment-6, 1st Flr Front of Stairs to 2nd Floor location.	1234	
" W12	Containment-6, 1st Flr Front OF 133B Door Corridor.	1230	
" W13	Containment-6, 1st Flr Front OF RM-138A IT to Poll stairs	1240	

Client Sample # (s): W-07 - W-13 **Total # of Samples:** 5-12 (7)

Relinquished (Client): [signature] **Date:** 02/19/2020 **Time:**

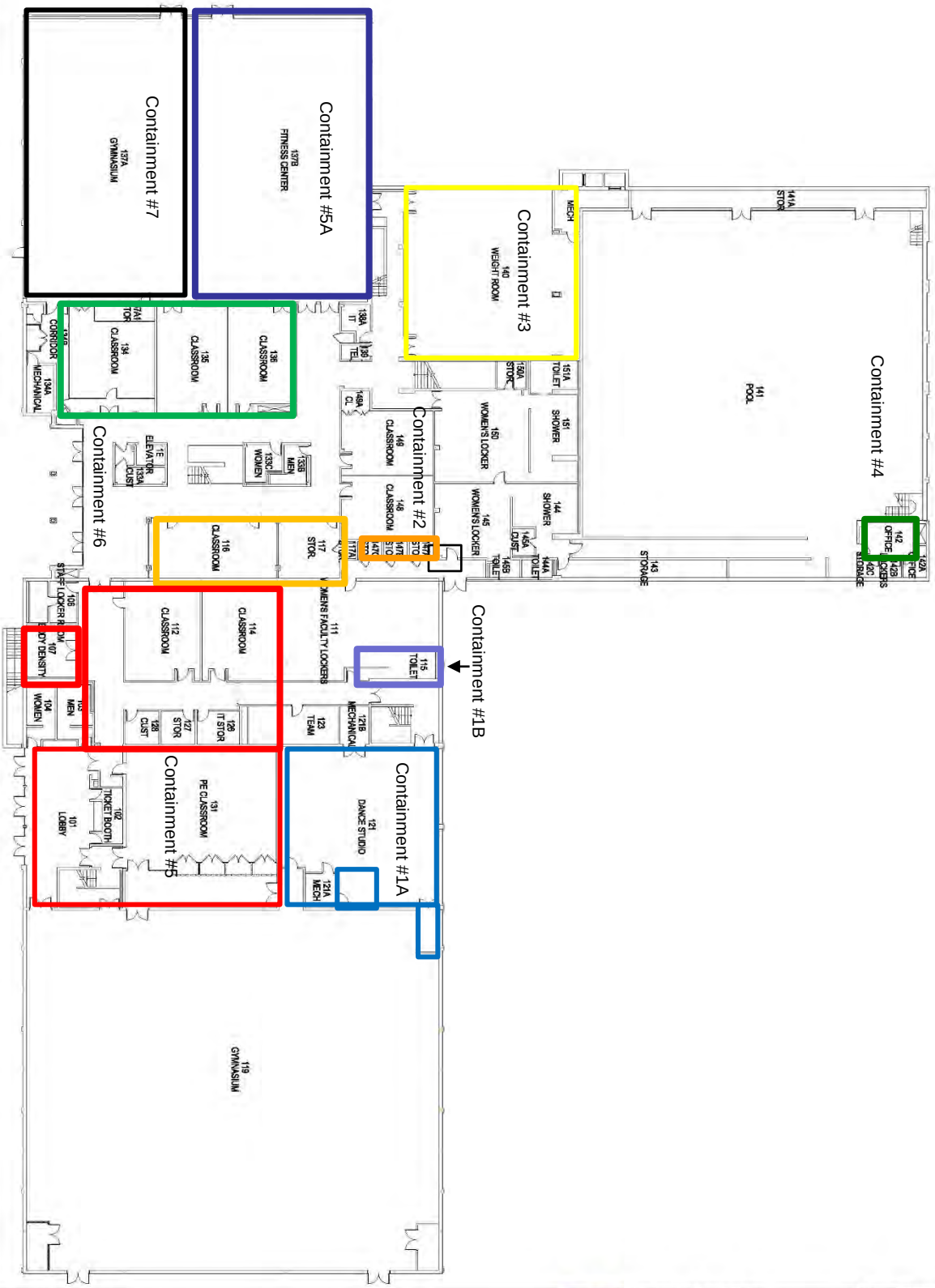
Received (Lab): K. Tomorrow Drop Box **Date:** 2/19/2020 **Time:** 5:05pm

Comments/Special Instructions: skanda@tideh2o.net, okahawita@yahoo.com

ATTACHMENT D

Floor Plans Demarcating the Containments

C:\Space Planning\Space Inventory\DWGDATA\Rockville\PE\PE001.dwg, Base, 6/19/2018 11:12:14 AM



ROCKVILLE CAMPUS

PHYSICAL EDUCATION CENTER - FIRST FLOOR

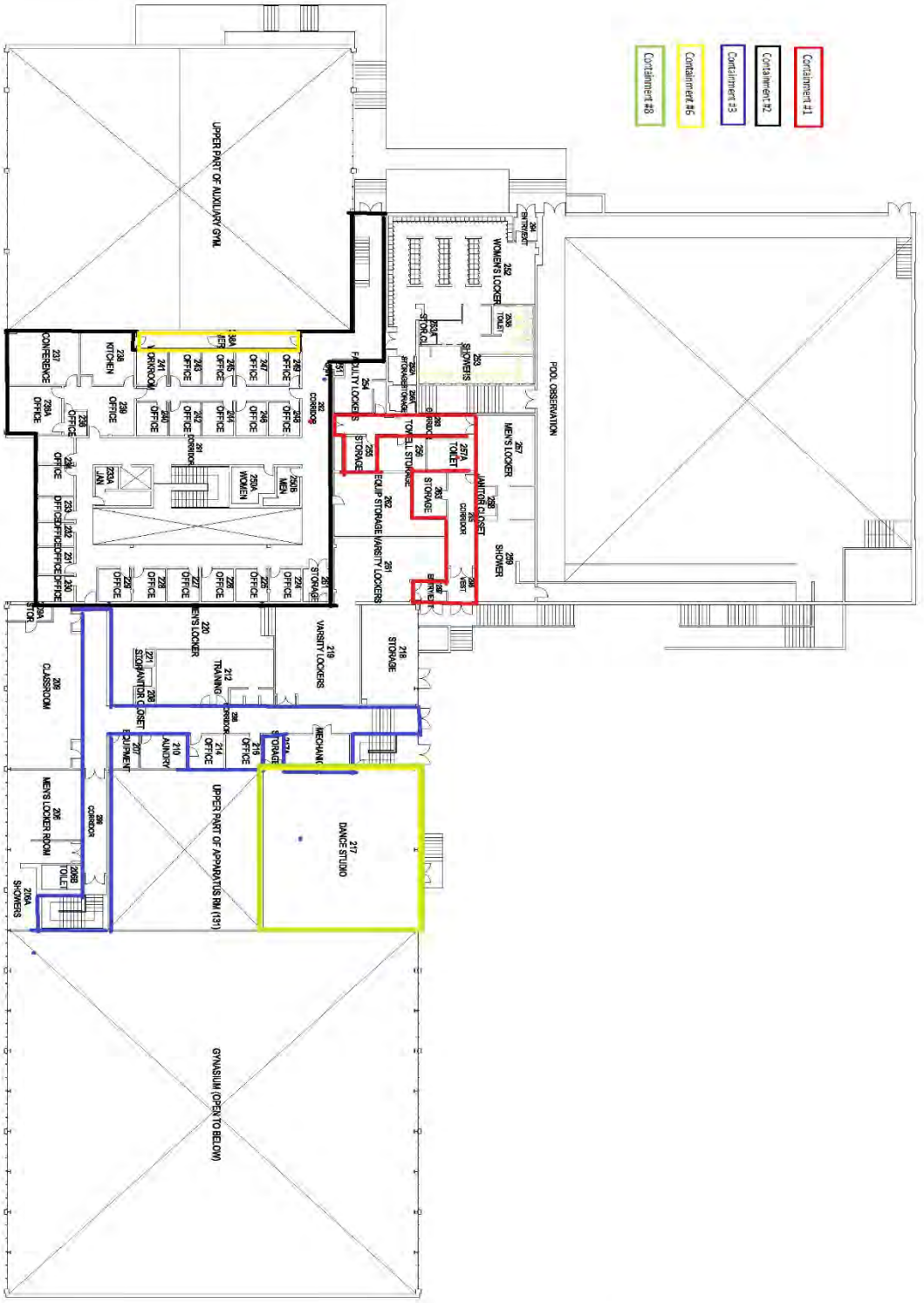
EXISTING PLAN

MONTGOMERY COLLEGE

OFFICE OF CENTRAL FACILITIES
Capital Planning and Design
40 West Gude Drive, Suite 200, Rockville, MD 20850
240-567-7370

Date	10/21/2016
Scale	Not to Scale
Drawn	XX
Approved	XX
Dwg. No.	XXX

C:\Space Planning\Space Inventory\DWGDATA\Rockville\PE\PE002.dwg, Base, 6/19/2018 11:13:36 AM



ROCKVILLE CAMPUS

PHYSICAL EDUCATION CENTER - SECOND FLOOR

EXISTING PLAN

MONTGOMERY COLLEGE

OFFICE OF CENTRAL FACILITIES
Capital Planning and Design
40 West Gude Drive, Suite 200, Rockville, MD 20850
240-567-7370

Date	09/08/2017
Scale	Not to Scale
Drawn	XX
Approved	XX
Dwg. No.	XXX

ATTACHMENT E

Table Summary of ACM

Summary of ACM Removed

Montgomery College – Rockville, Maryland Campus

Physical Education (PE) Building

January 27, 2020 and February 20, 2020

First Floor			
Containment Zone	**Quantity of ACM removed The number of tiles (red backing), mudded joints**	**Final Clearance Samples #**	**Final Clearance Sample Results**
Containment-1-A Room 121- Dance Studio Room 121A - Mechanical Room Room 119 - Storage Area	**a.** Ceiling Tiles with (Red Backing) **17** **b.** Mudded joint & Elbows **37** **c.** Mastic (RM-119 /Storage area) **500 SF** **d.** 9" x "9" Floor Tile & Mastic (RM-119 Storage area) **60SF**	2220-5089-016-G-03 2220-5089-016-G-04 2220-5089-016-G-05 2220-5089-016-G-06 2220-5089-016-G-07	<15.00 *(S/mm²)* <15.00 *(S/mm²)* <15.00 *(S/mm²)* <15.00 *(S/mm²)* <15.00 *(S/mm²)*
Containment-1-B Room 115 – Women's Toilet.	**e.** Ceiling Tiles & Mudded joint & Elbows **None**	1302005089016-D-13	<15.00 *(S/mm²)*
Containment-2 Room 147-Storage & Corridor.	**f.** Ceiling Tiles with (Red Backing) **20**	13020 5089016-D-10 13020 5089016-D-11	<15.00 *(S/mm²)* <15.00 *(S/mm²)*
Containment-3 Room 140 - Weights Room & adjacent corridor.	**g.** Suspected Dust & Debris **Lot** (140A-Mech-Room-Debris)	2120-5089-016-F-07 2120-5089-016-F-08 2120-5089-016-F-09 2120-5089-016-F-10	<15.00 *(S/mm²)* <15.00 *(S/mm²)* <15.00 *(S/mm²)* <15.00 *(S/mm²)*
Containment-4 Room 142 - Mechanical Room / Pool Office.	**h.** Ceiling Tiles with (Red Backing) **40** **i.** Mudded joint & Elbows **42 (34 Glove bag) 8 stay** **j.** 9" x "9" Floor Tile & Mastic (RM-112) Damage areas **15SFT**	2720-5089-016-L-08 2720-5089-016-L-09 21-2062020 2720-5089-016-L-08 2720-5089-016-L-09	<15.00 *(S/mm²)* <15.00 *(S/mm²)* <15.00 *(S/mm²)* <0.01 fibers/cc <0.01 fibers/cc
Containment-5-A Room 137B - Fitness Center-Main entry door areas.	**k.** Ceiling Tiles with (Red Backing) **1**	23-2062020 24-2062020	<15.00 *(S/mm²)* <15.00 *(S/mm²)*

Summary of ACM Removed

Montgomery College – Rockville, Maryland Campus

Physical Education (PE) Building

January 27, 2020 and February 20, 2020

First Floor			
Containment Zone	**Quantity of ACM removed The number of tiles (red backing), mudded joints**	**Final Clearance Samples #**	**Final Clearance Sample Results** *(S/mm²)*
Containment-5 Lobby-101, 191 & Rest of the classroom and (102, 131, 107, 112, 114 & 191 Corridors)	**a.** Ceiling Tiles with (Red Backing) **None** **b.** Mudded joint & Elbows **11 (Removed only the Damage Mudded joint or Elbow)**	21220-5089-016-Q-08 21220-5089-016-Q-09 21220-5089-016-Q-10 21220-5089-016-Q-11 21220-5089-016-Q-12	<15.00 *(S/mm²)* <15.00 *(S/mm²)* <15.00 *(S/mm²)* <15.00 *(S/mm²)* <15.00 *(S/mm²)*
Containment-6 Main Lobby - Rest of the Classrooms (106, 117, 134, 135, 136, 116, 114 & 190 Corridors).	**l.** Ceiling Tiles with (Red Backing) **750** **m.** Mudded joint & Elbows (MPJ-134A) **15** **n.** Mastic (RM-134-Sprinkle-IT) area) **14SFT**	21920-5089-016-W-09 21920-5089-016-W-10 21920-5089-016-W-11 21920-5089-016-W-12 21920-5089-016-W-13	<15.00 *(S/mm²)* <15.00 *(S/mm²)* <15.00 *(S/mm²)* <15.00 *(S/mm²)* <15.00 *(S/mm²)*
Containment-7 Gymnasum-137A (Mini-Storage-137A)	**c.** Ceiling Tiles with (Red Backing) **None**	21920-5089-016-W-06a	<0.01 fibers/cc

Summary of ACM Removed

Montgomery College – Rockville, Maryland Campus

Physical Education (PE) Building

January 27, 2020 and February 20, 2020

Second Floor			
Containment Zone	**Total Quantity of ACM removed The number of tiles (red backing), mudded joints**	**Final Clearance Samples #**	**Final Clearance Sample Results** *(S/mm²)*
Containment – **1** Men's Locker Area	**a. Red Backing Ceiling Tiles 966** **b. Mudded Joint 44** **c. Mastic 60 SFT** **d. A total of 4135 waste bags removed from this Project during gross removal final cleaning operation.**	21 13020 22 13020 23 13020	<15.00 <15.00 <15.00
Containment – **2** Center Stairwell		Z1 020320 Z2 020320 Z3 020320 Z4 020320 Z5 020320	15.00 <15.00 <15.00 <15.00 <15.00
Containment – **3** Corridors #298/ #299 area		Z1 02052020 Z2 02052020 Z3 02052020 Z4 02052020 Z5 02052020	<15.00 <15.00 <15.00 <15.00 <15.00
Containment 6 Mechanical Room #238A		WG-020620-05 WG-020620-06	<0.01 fibers/cc <0.01 fibers/cc
Containment – **8** 2nd floor, #217 (dance studio)		Z1 02092020 Z2 02092020 Z3 02092020	<15.00 <15.00 <15.00