

**Total
Environmental
Concepts, Inc.**

Setting the Standard in Comprehensive Environmental Solutions

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INDOOR AIR QUALITY ASSESSMENT REPORT

at

Mount Vernon Community School

8515 Old Mt Vernon Rd
Alexandria, VA 22309



Report Prepared for:

John Contreras

Alexandria City Public Schools

2601 Cameron Mills Rd, Alexandria, VA 22302

Dated: September 28, 2021

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ABBREVIATIONS AND ACRONYMS

AHU	Air-Handling Unit
AIHA	American Industrial Hygiene Association
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers
ASTM	American Society for Testing and Materials
CO	Carbon Monoxide
CO₂	Carbon Dioxide
EMLAP	Environmental Microbiology Laboratory Accreditation Program
HVAC	Heating, Ventilating, And Air-Conditioning
IAQ	Indoor Air Quality
NIST	National Institute for Standards and Technology
NVLAP	National Voluntary Laboratory Accreditation Program
RH	Relative Humidity

Abbreviations involving scientific volume and measurements involving media or water sampling

Spores/m³	Mold spores per cubic meter of air
LPM	Liters Per Minute
NTE	Not to exceed
°F	degree Fahrenheit
PPM	Parts Per Million

1. Executive Summary

Total Environmental Concepts (TEC) was contracted by Alexandria City Public Schools (ACPS) to perform Indoor Air Quality (IAQ) assessments at 19 schools. The original list is provided below:

- Alexandria City High School (AC)
- AC Satellite Campus, Central Offices (CO)
- Charles Barrett Elementary School (BC)
- Cora Kelly School for Math (CK)
- Frances C. Hammond Elementary School (FH)
- George Mason Elementary School (GM)
- George Mason Elementary School (GW)
- James Polk Elementary School (JP)
- John Adams Elementary School (JA)
- Lyles-Crouch Elementary School (LC)
- Minnie Howard High School (MH)
- Naomi Brooks Elementary School (NB)
- Samuel Tucker Elementary School (ST)
- William Ramsey Elementary School (WR)
- Douglas MacArthur Elementary School (DM)
- Jefferson-Houston Elementary School (JH)
- Ferdinand T. Day Elementary School (FD)
- Patrick Henry Elementary School (PH)
- **Mount Vernon Community School (MV)**

This IAQ assessment was conducted at Mount Vernon Community School on Friday, August 31, 2021. ACPS required that the testing be based on the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) guidelines. ACPS provided site plans and fifteen (15) sampling locations per school. ACPS chose sampling locations based on internal review of facilities maintenance records, and a review of facilities maintenance-related issues. These sampling locations were selected to collect representative IAQ data in these specific areas and to document any areas of potential concern observed during the site assessment. ACPS required that TEC test for the following major indoor air pollutants:

- Mold
- Radon
- TO+15 (VOCs)
- Formaldehyde
- 4-polycyclohexene (4-PCH)

In accordance with ASHRAE, TEC also took measurements of the following at each school:

- Carbon Monoxide
- Carbon Dioxide
- Humidity
- Temperature
- Oxygen

Summary of findings and recommendations during this limited IAQ investigation:

- **Mold** – TEC conducted site-specific mold sampling outside at Mount Vernon Community School to obtain a baseline of the number and types of fungal spores in the air. This baseline was compared to the spores collected inside at the sampling locations since inside spore counts above baseline could indicate internal sources of mold.

Findings:

The number of spores in the air were within acceptable ranges in all locations as compared to background outside air mold spore counts. Photographs can be found in Section 3, Visual Observations.

Recommendations:

- Moving forward, any suspected mold growth should be inspected by a qualified professional.
- Investigate sources of water leaks and any evidence of water staining.
- Inspect above drop ceilings and replace stained ceiling tiles.
- Inspect areas around the building foundation.
- For all HVAC and associated building systems, a detailed schedule of maintenance should be established and adhered to.

None of the results from the five sampling locations at Mount Vernon Community School were indicative of mold issues.

- **Radon** – levels recorded in all locations were less than 4pCi/L, as recommended by EPA and HUD.
- **VOCs** – The levels of volatile organic compounds (VOCs) recorded at each location were within acceptable ranges compared to EPA Regional Screening Levels (RSLs).
- **4-PCH** – levels recorded during this investigation were within the LEED (Leadership of Energy and Environmental Design) IAQ guideline of 6.5 ug/m³.
- **Formaldehyde** – the levels of formaldehyde recorded at each location were within an acceptable range, compared to EPA Regional Screening Level (RSLs) of 1ug/m³.
- **Carbon monoxide** – concentrations in all areas were less than the EPA, and ASHRAE recommended a limit of 9 ppm.
- **Carbon dioxide** – concentrations in all tested spaces were less than the ASHRAE limit of 1,092 ppm.
- **RH** – the relative humidity in all tested spaces was within the ASHRAE guidelines of ≤ 67% and for this investigation, ≤ 65%. None of the tested locations had a relative humidity greater than 65%.
- **Temperature** – none of the tested spaces had temperatures greater than the ASHRAE recommended summer range of 75°F-80.5°F.

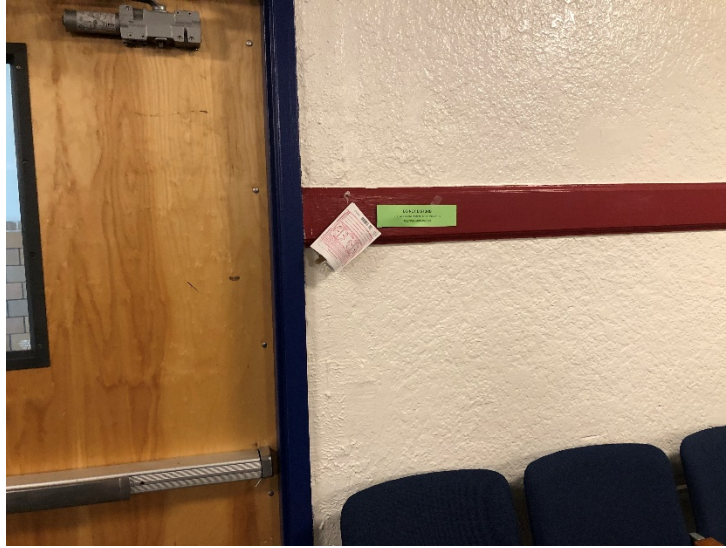
2. Assessment Methods

Under the direction of TEC Industrial Hygienist Nikki Satari, Margaret Stanger, Victoria Powers, and Channing Jackson, also of TEC, conducted IAQ inspections and air sampling on, August 31, 2021. All air samples were collected three to six feet from floor level, the typical breathing zone for adults.

Mold air samples were collected with a field calibrated Environmental Monitoring Systems High Volume Sampling Pump on Allergenco-D Disposable IAQ Air Monitoring Cassettes at a flow rate of 10 liters per minute for a sample volume of 75 liters during the assessment (photograph below). The Hayes Microbial Consulting laboratory reports are included in Appendix A.



Radon gas samples were collected by securing Air Chek Radon Test Kits (photograph below). Samples were collected within the breathing zone (4-6ft from ground level) at each sample location. In accordance with Air Chek's Radon Test Kit Instructions, kits were secured to walls inside the building and away from open windows, doors to the outside, or interior air ventilation systems. The sampling time was 72 hours. Radon analytical results can be found in Appendix B.



Formaldehyde gas air samples were collected using static Aldehyde TraceAir II Monitors (photograph below). Samples were secured to surrounding testing equipment to expose the total surface area of the sampling device for the 4 hours of sampling time. Monitors were collected after 4 hours and processed for shipment to Phase Separation Science located in Catonsville, MD. Formaldehyde analytical results can be found in Appendix D.



The 4-polycyclohexene (4-PCH) samples were collected in SKC's Anasorb CSC sorbent tubes through Gilian GilAir3 Air Sampling Pumps (photograph below). Pumps were placed within the breathing zone (4-6ft from ground level). Run times were 8 hours or time-weighted 4-hour runs. 4-PCH analytical results can be found in Appendix E.



TO+15 (VOCs) samples were collected using ENTECH Instruments 1.4L SUMMA canisters with an ENTECH regulator attachment (photograph below). Canisters were deployed at each location for a run time of 8 hours or a time-weighted run time of 4 hours. Internal pressure readings were recorded at the start and end of each sample run time. TO+15 (VOCs) analytical results can be found in Appendix C.



The temperature and relative humidity were taken with the AcuRite Digital Indoor Temperature and Humidity Monitor in the lobby of each school. Temperature and relative humidity readings can be found in Section 5, Mold Sampling Results, below.

Real-time measurements for oxygen, carbon dioxide, carbon monoxide, VOC, hydrogen sulfides were taken with a multi-gas detector. These measurements can be found in Section 10 Multi-gas Detector (MSA Altair Multi-gas) Readings. This information can be found in Table 1 below.



3. Visual Observations

Sample Location	August 31, 2021	Visual Observations
Auditorium	TEC Observed the Auditorium being used as a temporary storage.	A photograph showing the interior of an auditorium. The rows of red seats are mostly empty. In the foreground, several white cardboard boxes are stacked on a table, with books and papers scattered around them. In the background, more boxes and equipment are visible, indicating the space is being used for temporary storage.

<p>Library</p>	<p>TEC observed the library under construction</p>	
<p>Hallway by Cafeteria</p>	<p>Hallway of Mt. Vernon Community School.</p>	
<p>Hallway Second Floor</p>	<p>Hallway to the addition on the second floor of Mt. Vernon Community School.</p>	

4. Conditions for Human Occupancy

Conditions for Human Occupancy are addressed in ASHRAE Standard 55-2017. These standards are designed to provide comfort for an estimated 80% of occupants. The standard provides for a temperature range between approximately 67 and 82 °F. A more specific range based on relative humidity, season, clothing worn, activity levels, and other factors can be determined. For example, the standard does not specify a lower humidity range but notes that issues of comfort, skin irritation, dry mucous membranes, and static electricity may arise when the relative humidity is less than 30%. ASHRAE Standard 62.1-2016 does recommend an upper limit of 67% humidity to avoid conditions conducive to microbial growth. For this investigation, TEC used a conservative upper limit of 65%. The recommended ASHRAE temperature range for schools and office spaces in summer is 75°F-80.5°F.

4.1 Temperature

The recommended ASHRAE temperature range for schools and office spaces in summer is 75°F-80.5°F. The recorded relative humidity in all locations was below 65%, and the average indoor temperature can be found in Table 2.

4.2 Relative Humidity

ASHRAE Standard 62.1-2016 recommends a relative humidity no greater than 67% to avoid conditions conducive to microbial growth. The relative humidity observed by TEC during this investigation was below 65% in all locations. Average relative humidity can be found in Table 2.

4.3 Carbon Dioxide

Carbon dioxide (CO₂) is a by-product of combustion-burning engines such as generators, furnaces, boilers, and idling automobile engines. High CO₂ measurements may indicate engine maintenance issues. There were no exceedances in real-time during the IAQ investigation. Complete results can be found in Table 1.

4.4 Carbon Monoxide

Carbon monoxide (CO) is a by-product of the combustion of fossil fuels. Generators, furnaces, boilers, idling automobile engines may all produce CO. High CO measurements may indicate engine maintenance issues. There were no exceedances in real-time during the IAQ investigation. Complete results can be found in Table 1.

4.5 Multi-gas Detector Readings

Multi-gas readings were taken at each location to document current conditions at the time of the sampling efforts and to monitor the environment between sampling locations. There were no exceedances in real-time during the IAQ investigation. Complete results can be found in Table 1.

5. Mold Sampling Results

TEC conducted mold sampling outside to obtain a baseline spore count. This baseline was compared to inside mold spore counts at the designated sampling locations.

The number of spores in the air was within acceptable ranges in all locations compared to background outside air mold spore counts.

In conclusion, federal standards for the number of fungal spores present in the indoor environment don't exist. The widely accepted guideline in the indoor air quality field requires that the number and types of spores present in the indoor environment not exceed those present outdoors at any given time.

Mold is carried indoors through building entrances, open windows, loading docks, foot traffic into buildings, and the HVAC system. To thrive indoors, mold requires a food source, proper temperature, and humidity to foster its growth.

There will always be some mold spores present in "normal" indoor environments. The purpose of sampling and counting spores is to help determine whether an abnormal condition exists within the indoor environment and, if it does, to help pinpoint the area of contamination.

There will also be mold spores present in "normal" outdoor environments. In any environment, excess mold growth may arise as a result of excess moisture, and indoors this may indicate water leaks or high indoor humidity.

Interior spore counts above baseline readings may indicate internal sources of mold, and this would indicate a requirement for further investigation and potential mitigation

TEC recommends that ACPS investigate all areas where there are obvious signs of water intrusion. Care should be taken to look above drop ceilings and around the building foundation. Any hidden suspected mold should be tested and verified by a qualified professional. The mold in air results do not indicate a need for mold abatement at this time, but conditions may worsen if the issues with leaks and water intrusion are not addressed. The observed ratio anomalies are most likely caused by a combination of the normal fluctuation in daily spore counts and the issues with water intrusion.

Findings:

The number of spores in the air were within acceptable ranges in all locations as compared to background outside air mold spore counts. Photographs can be found in Section 3, Visual Observations.

Recommendations:

- Moving forward, any suspected mold growth should be inspected by a qualified professional.
- Investigate sources of water leaks and any evidence of water staining.
- Inspect above drop ceilings and replace stained ceiling tiles.
- Inspect areas around the building foundation.

- For all HVAC and associated building systems, a detailed schedule of maintenance should be established and adhered to.

None of the results from the fifteen sampling locations at Mount Vernon Community School were indicative of mold issues.

Mold analytical results can be found in Appendix A.

6. Radon Gas Sampling Results

Radon forms as the result of the radioactive decay of uranium. Uranium is a naturally occurring radioactive by-product that occurs when rock and soil break down. Some building materials, such as granite, maybe a source of radon. ACPS provided sampling areas, which did not allow for TEC to utilize the sampling protocol provided by Air Chek to perform a comprehensive survey. Air Chek Radon Test Kits collection times were a minimum of 72 hours. Test kits were then retrieved and shipped to Air Chek Inc., located in Mills River, NC. Air Chek laboratories are the National Institute of Standards and Technology's (NIST) National Voluntary Laboratory Accreditation Program (NVLAP), and American Industrial Hygiene Association (AIHA) for Environmental Microbial Laboratory Accreditation Program (EMLAP) certified. Analytical results can be found in Appendix B.

7. TO+15 (VOC) Sampling Results

Volatile organic compounds (VOCs), are organic chemicals emitted as gases. Carpets, flooring materials, cleaning agents, disinfectants, air fresheners, and vinyl furnishings may all be sources of VOCs in indoor air. Analytical results can be found in Appendix C.

8. Formaldehyde Gas Sampling Results

Sources of formaldehyde are similar to sources of carbon monoxide. They include gas-burning engines and space heaters. Other sources include smoking, household products, pressed wood products, and adhesives. Analytical results can be found in Appendix D.

9. 4-PCH Sampling Results

4-polycyclohexene is a common indoor air contaminant most commonly associated with "new-carpet" smell complaints. 4-PCH is a by-product of carpet manufacturing and has been associated with adverse health effects. None of the areas investigated during this study indicated elevated levels of PCH. Analytical results can be found in Appendix E.

10. Multi-Gas Detector (MSA Altair Multi-gas) Readings

Multi-gas readings were taken at each location to document current conditions at the time of the sampling efforts and to monitor the environment between sampling locations. There were no exceedances in real-time during the IAQ investigation. Multi-gas results can be found below in Table 1.

Table 1

Multi-Gas Detector Readings				
Location	VOC	CO	OXYGEN	H2S
Reception	0.0	0.0	20.9	0.0
104	0.0	0.0	20.9	0.0
Library	0.0	0.0	20.9	0.0
Auditorium	0.0	0.0	20.9	0.0
113	0.2	0.0	20.9	0.0
Cafeteria	0.2	0.0	20.9	0.0
119	0.0	0.0	20.9	0.0
123	0.0	0.0	20.9	0.0
Gym	0.0	0.0	20.9	0.0
Hall 215	0.1	0.0	20.9	0.0
220	0.2	0.0	20.9	0.0
228	0.0	0.0	20.9	0.0
234	0.0	0.0	20.9	0.0
318	0.0	0.0	20.9	0.0
323	0.0	0.0	20.9	0.0

Table 2

Results of Analytes by Location						
Location	Radon	Mold		TO+15 VOCs	4PCH	Formaldehyde
		AVG: 77 F	AVG: 55 %			
Reception	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
104	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Library	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Auditorium	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
113	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Cafeteria	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
119	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
123	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Gym	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Hall 215	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
220	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
228	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
234	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
318	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
323	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL

**See Section 5 - Ratio abnormalities are most likely caused by fluctuations in daily spore counts*

11. Quality Control Program

- TEC recognizes the importance of quality assurance (QA) and quality control (QC) measures related to sample collection and processing performance.
- To ensure compliance with QA/QC measures, Standard Operating Procedures (SOPs) have been developed for field sample collection techniques, field sample screening procedures, multi-media sampling, and the accurate presentation of findings/reporting.
- All staff are provided these SOPs and are trained in these procedures before conducting work activities. TEC's Program Manager and the on-site PM/QCM will manage the quality control program.
- The PM will work closely with field technicians to ensure the success of the quality control program. All team members will receive copies of and abide by the quality control plan.
- Daily records will be kept of all operations, activities, and tests performed in the quality control program.
- All samples collected during this IAQ assessment were collected, processed, and shipped under the strictest chain of custody (CoC) guidelines.
- All samples were shipped for analysis by a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory.

Appendix A: Mold Analytical Results

Analysis Report prepared for

Total Environmental Concepts, Inc.

8382 Terminal Road
Suite B
Lorton, VA 22079

Phone: (571) 289-2173

Mt. Vernon Comm School

Collected: **August 31, 2021**
Received: **September 3, 2021**
Reported: **September 3, 2021**

We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 17 samples by FedEx in good condition for this project on September 3rd, 2021.

The results in this analysis pertain only to this job, collected on the stated date, and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC..

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial. In no event, shall Hayes Microbial or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of the use of these test results.



Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC.



EPA Laboratory ID: VA01419



Lab ID: #188863



DPH License: #PH-0198

Sample Number	1 MV4315322			2 MV4315365			3 MV4315356			4 MV4315362		
Sample Name	MV Reception			MV 104			MV Library			MV Aud		
Sample Volume	75.00 liter			75.00 liter			75.00 liter			75.00 liter		
Reporting Limit	13 spores/m ³			13 spores/m ³			13 spores/m ³			13 spores/m ³		
Background	2			2			2			2		
Fragments	13/m ³			ND			ND			ND		
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total
Alternaria												
Ascospores												
Aspergillus Penicillium	2	27	66.7%				2	27	100.0%			
Basidiospores										3	40	100.0%
Bipolaris Drechslera				2	27	40.0%						
Chaetomium												
Cladosporium												
Curvularia	1	13	33.3%									
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes				3	40	60.0%						
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	3	40	100%	5	67	100%	2	27	100%	3	40	100%

Water Damage Indicator Common Allergen Slightly Higher than Baseline Significantly Higher than Baseline Ratio Abnormality



Collected: **Aug 31, 2021**

Received: **Sep 3, 2021**

Reported: **Sep 3, 2021**

Project Analyst:
 Shareef Abdelgadir, MS *Shareef Abdelgadir*

Date:
09 - 03 - 2021

Reviewed By:
 Ramesh Poluri, PhD *P. Ramesh*

Date:
09 - 03 - 2021

Sample Number	5	MV4315651			6	MV4315666			7	MV4315632			8	MV4315627		
Sample Name	MV 113			MV 119			MV 123			MV Gym						
Sample Volume	75.00 liter			75.00 liter			75.00 liter			75.00 liter						
Reporting Limit	13 spores/m ³			13 spores/m ³			13 spores/m ³			13 spores/m ³						
Background	2			2			2			2						
Fragments	ND			ND			ND			13/m ³						
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total				
Alternaria																
Ascospores				2	27	40.0%										
Aspergillus Penicillium	2	27	100.0%													
Basidiospores							2	27	100.0%							
Bipolaris Drechslera																
Chaetomium																
Cladosporium																
Curvularia				1	13	20.0%				9	120	75.0%				
Epicoccum																
Fusarium																
Memnoniella																
Myxomycetes				1	13	20.0%				3	40	25.0%				
Pithomyces				1	13	20.0%										
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																
Total	2	27	100%	5	66	100%	2	27	100%	12	160	100%				

Water Damage Indicator	Common Allergen	Slightly Higher than Baseline	Significantly Higher than Baseline	Ratio Abnormality
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Collected: **Aug 31, 2021**

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Reported: **Sep 3, 2021**



Project Analyst:
 Shareef Abdelgadir, MS

Shareef Abdelgadir

Date:
09 - 03 - 2021

Reviewed By:
 Ramesh Poluri, PhD

P. Ramesh

Date:
09 - 03 - 2021

Sample Number	9	MV4315622			10	MV4315636			11	MV4315637			12	MV4315631		
Sample Name	MV Cafe			MV 228			MV 234			MV Hall 201						
Sample Volume	75.00 liter			75.00 liter			75.00 liter			75.00 liter						
Reporting Limit	13 spores/m ³			13 spores/m ³			13 spores/m ³			13 spores/m ³						
Background	2			2			2			2						
Fragments	ND			ND			ND			ND						
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total				
Alternaria																
Ascospores							1	13	25.0%	1	13	25.0%				
Aspergillus Penicillium																
Basidiospores							3	40	75.0%	3	40	75.0%				
Bipolaris Drechslera																
Chaetomium																
Cladosporium	3	40	100.0%													
Curvularia				3	40	100.0%										
Epicoccum																
Fusarium																
Memnoniella																
Myxomycetes																
Pithomyces																
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																
Total	3	40	100%	3	40	100%	4	53	100%	4	53	100%				

Water Damage Indicator Common Allergen Slightly Higher than Baseline Significantly Higher than Baseline Ratio Abnormality



Collected: **Aug 31, 2021**

Received: **Sep 3, 2021**

Reported: **Sep 3, 2021**

Project Analyst:
 Shareef Abdelgadir, MS *Shareef Abdelgadir*

Date:
09 - 03 - 2021

Reviewed By:
 Ramesh Poluri, PhD *P. Ramesh*

Date:
09 - 03 - 2021

Sample Number	13	MV4315642			14	MV4315626			15	MV4315150			16	MV4315621		
Sample Name	MV 220			MV Hall 214			MV 318			MV 323						
Sample Volume	75.00 liter			75.00 liter			75.00 liter			75.00 liter						
Reporting Limit	13 spores/m ³			13 spores/m ³			13 spores/m ³			13 spores/m ³						
Background	2			2			2			2						
Fragments	ND			ND			ND			ND						
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total				
Alternaria																
Ascospores				7	93	77.8%										
Aspergillus Penicillium																
Basidiospores	1	13	10.0%				2	27	100.0%							
Bipolaris Drechslera																
Chaetomium																
Cladosporium	1	13	10.0%							2	27	100.0%				
Curvularia	8	107	80.0%	1	13	11.1%										
Epicoccum																
Fusarium																
Memnoniella																
Myxomycetes																
Pithomyces																
Stachybotrys																
Stemphylium																
Torula				1	13	11.1%										
Ulocladium																
Total	10	133	100%	9	119	100%	2	27	100%	2	27	100%				

Water Damage Indicator Common Allergen Slightly Higher than Baseline Significantly Higher than Baseline Ratio Abnormality



Collected: **Aug 31, 2021**

Received: **Sep 3, 2021**

Reported: **Sep 3, 2021**

Project Analyst:
 Shareef Abdelgadir, MS *Shareef Abdelgadir*

Date:
09 - 03 - 2021

Reviewed By:
 Ramesh Poluri, PhD *P. Ramesh*

Date:
09 - 03 - 2021

Sample Number	17	MV4315625				
Sample Name	MV Outdoor					
Sample Volume	75.00 liter					
Reporting Limit	13 spores/m ³					
Background	2					
Fragments	ND					
Organism	Raw Count	Count / m³	% of Total			
Alternaria						
Ascospores	24	320	33.3%			
Aspergillus Penicillium	8	107	11.1%			
Basidiospores	9	120	12.5%			
Bipolaris Drechslera						
Chaetomium						
Cladosporium	23	307	31.9%			
Curvularia	2	27	2.8%			
Epicoccum						
Fusarium						
Memnoniella						
Myxomycetes	4	53	5.6%			
Pithomyces	2	27	2.8%			
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Total	72	961	100%			

Water Damage Indicator	Common Allergen	Slightly Higher than Baseline	Significantly Higher than Baseline	Ratio Abnormality
------------------------	-----------------	-------------------------------	------------------------------------	-------------------



Collected: Aug 31, 2021

Received: Sep 3, 2021

Reported: Sep 3, 2021

Project Analyst:
 Shareef Abdelgadir, MS *Shareef Abdelgadir*

Date:
09 - 03 - 2021

Reviewed By:
 Ramesh Poluri, PhD *P. Ramesh*

Date:
09 - 03 - 2021

Spore Trap Information

Reporting Limit	The Reporting Limit is the lowest number of spores that can be detected based on the total volume of the sample collected and the percentage of the slide that is counted. At Hayes Microbial, 100% of the slide is read so the LOD is based solely on the total volume. Raw spore counts that exceed 500 spores will be estimated.										
Blanks	Results have not been corrected for field or laboratory blanks.										
Background	<p>The Background is the amount of debris that is present in the sample. This debris consists of skin cells, dirt, dust, pollen, drywall dust and other organic and non-organic matter. As the background density increases, the likelihood of spores, especially small spores such as those of Aspergillus and Penicillium may be obscured. The background is rated on a scale of 1 to 5 and each level is determined as follows:</p> <p>NBD: No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD)</p> <p>1 : <5% of field occluded. No spores will be uncountable.</p> <p>2 : 5-25% of field occluded.</p> <p>3 : 25-75% of field occluded.</p> <p>4 : 75-90% of field occluded.</p> <p>5 : >90% of field occluded. Suggested recollection of sample.</p>										
Fragments	Fragments are small pieces of fungal mycelium or spores. They are not identifiable as to type and when present in very large numbers, may indicate the presence of mold amplification.										
Control Comparisons	There are no national standards for the numbers of fungal spores that may be present in the indoor environment. As a general rule and guideline that is widely accepted in the indoor air quality field, the numbers and types of spores that are present in the indoor environment should not exceed those that are present outdoors at any given time. There will always be some mold spores present in "normal" indoor environments. The purpose of sampling and counting spores is to help determine whether an abnormal condition exists within the indoor environment and if it does, to help pinpoint the area of contamination. Spore counts should not be used as the sole determining factor of mold contamination. There are many factors that can cause anomalies in the comparison of indoor and outdoor samples due to the dynamic nature of both of those environments.										
<table border="1"> <tr> <td style="background-color: #ADD8E6;">Water Damage Indicator</td> <td>Blue: These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.</td> </tr> <tr> <td style="background-color: #90EE90;">Common Allergen</td> <td>Green: Although all molds are potential allergens, these are the most common allergens that may be found indoors.</td> </tr> <tr> <td style="background-color: #FFDAB9;">Slightly Higher than Baseline</td> <td>Orange: The spore count is slightly higher than the outside count and may or may not indicate a source of contamination.</td> </tr> <tr> <td style="background-color: #FFB6C1;">Significantly Higher than Baseline</td> <td>Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination.</td> </tr> <tr> <td style="background-color: #DDA0DD;">Ratio Abnormality</td> <td>Violet: The types of spores found indoors should be similar to the ones that were identified in the baseline sample. Significant increases (more than 25%) in the ratio of a particular spore type may indicate the presence of abnormal levels of mold, even if the total number of spores of that type is lower in the indoor environment than it was outdoors.</td> </tr> </table>	Water Damage Indicator	Blue: These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.	Common Allergen	Green: Although all molds are potential allergens, these are the most common allergens that may be found indoors.	Slightly Higher than Baseline	Orange: The spore count is slightly higher than the outside count and may or may not indicate a source of contamination.	Significantly Higher than Baseline	Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination.	Ratio Abnormality	Violet: The types of spores found indoors should be similar to the ones that were identified in the baseline sample. Significant increases (more than 25%) in the ratio of a particular spore type may indicate the presence of abnormal levels of mold, even if the total number of spores of that type is lower in the indoor environment than it was outdoors.	
Water Damage Indicator	Blue: These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.										
Common Allergen	Green: Although all molds are potential allergens, these are the most common allergens that may be found indoors.										
Slightly Higher than Baseline	Orange: The spore count is slightly higher than the outside count and may or may not indicate a source of contamination.										
Significantly Higher than Baseline	Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination.										
Ratio Abnormality	Violet: The types of spores found indoors should be similar to the ones that were identified in the baseline sample. Significant increases (more than 25%) in the ratio of a particular spore type may indicate the presence of abnormal levels of mold, even if the total number of spores of that type is lower in the indoor environment than it was outdoors.										
Color Coding	Fungi that are present in indoor samples at levels lower than 200 per cubic meter are not color coded on the report, unless they are one of the water damage indicators.										

Ascospores	Habitat: A large group consisting of more than 3000 species of fungi. Common plant pathogens and outdoor numbers become very high following rain. Most of the genera are indistinguishable by spore trap analysis and are combined on the report.
	Effects: Health affects are poorly studied, but many are likely to be allergenic.

Aspergillus Penicillium	Habitat: The most common fungi isolated from the environment. Very common in soil and on decaying plant material. Are able to grow well indoors on a wide variety of substrates.
	Effects: This group contains common allergens and many can cause hypersensitivity pneumonitis. They may cause extrinsic asthma, and many are opportunistic pathogens. Many species produce mycotoxins which may be associated with disease in humans and other animals. Toxin production is dependent on the species, the food source, competition with other organisms, and other environmental conditions.

Basidiospores	Habitat: A common group of Fungi that includes the mushrooms and bracket fungi. They are saprophytes and plant pathogens. In wet conditions they can cause structural damage to buildings.
	Effects: Common allergens and are also associated with hypersensitivity pneumonitis.

Bipolaris Drechslera	Habitat: They are found in soil and as plant pathogens. Can grow indoors on a variety of substrates.
	Effects: They may be allergenic and are very commonly involved in allergic fungal sinusitis. They are opportunistic pathogens but occasionally infect healthy individuals, causing keratitis, sinusitis and osteomyelitis.

Cladosporium	Habitat: One of the most common genera worldwide. Found in soil and plant debris and on the leaf surfaces of living plants. The outdoor numbers are lower in the winter and often relatively high in the summer, especially in high humidity. The outdoor numbers often spike in the late afternoon and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and in HVAC supply ducts.
	Effects: A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity pneumonitis.

Curvularia	Habitat: They exist in soil and plant debris, and are plant pathogens.
	Effects: They are allergenic and a common cause of allergic fungal sinusitis. An occasional cause of human infection, including keratitis, sinusitis, onychomycosis, mycetoma, pneumonia, endocarditis and disseminated infection, primarily in the immunocompromised.

Myxomycetes

Habitat: Found on decaying plant material and as a plant pathogen.

Effects: Some allergenic properties reported, but generally pose no health concerns to humans.

Pithomyces

Habitat: Common fungus isolated from soil, decaying plant material. Rarely found indoors.

Effects: Allergenic properties are poorly studied. No cases of infection in humans.

Torula

Habitat: Found in soil and on wood and grasses. Occasionally found growing indoors on cellulose containing materials.

Effects: A known allergen. No known cases of human infection.

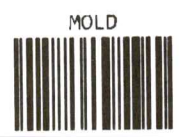


Placement Tech	Victoria P	Sample Type	Mold
Placement Date	8/31/2021	Email	Kford@tecinc.pro
Address	Mt Vernon Comm School		

Sample #	Location/ room	Flow Rate	Sampling Time	Pump Start Time	Pump End Time	Comments
MV 4315322	MV reception	10L/m	7.5m	16:24	16:31	55% 77°F
MV 4315365	MV 104			16:28	16:35	
MV 4315356	MV library			16:33	16:40	empty / construction
MV 4315362	MV Aud			16:37	16:44	
MV 4315651	MV 113			16:43	16:50	
MV 4315666	MV 119			16:47	16:54	
MV 4315632	MV 123			16:55	17:02	
MV 4315627	MV gym			17:01	17:08	
MV 4315622	MV Cafe			16:54	17:01	
MV 4315636	MV 228			17:33	17:40	
MV 4315637	MV 234			17:35	17:42	
MV 4315631	MV hall 201			17:50	17:58	
MV 4315642	MV 220			17:55	18:03	
MV 4315626	MV hall 214			18:00	18:15	
MV 4315120	MV 318			18:02	18:14	
MV 4315621	MV 323			18:16	18:24	
MV 4315625	MV outdoor			18:22	18:29	

N

SHIP: FEDEX - BOX 50
DATE: 09-03-2021



21033386

TM 9.3.21

Appendix B: Radon Analytical Results

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9723774 Result: < 0.3 pCi/l

Location:

Mv-234 Class D

,

Analysis Note :

Analyzed : 2021-09-09 at 2:00 pm

Started : 2021-08-31 at 6:00 pm

Ended : 2021-09-03 at 4:00 pm

Hours/MST% : 70 hours 13.0% 70°F

Kit #: 9723888 Result: < 0.3 pCi/l

Location:

Mv-234 Class

,

Analysis Note :

Analyzed : 2021-09-09 at 2:00 pm

Started : 2021-08-31 at 6:00 pm

Ended : 2021-09-03 at 4:00 pm

Hours/MST% : 70 hours 13.2% 70°F

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9731107 Result: < 0.3 pCi/l

Location:

Mv-104 Class

,

Analysis Note :

Analyzed : 2021-09-09 at 2:00 pm

Started : 2021-08-31 at 4:00 pm

Ended : 2021-09-03 at 4:00 pm

Hours/MST% : 72 hours 11.0% 70°F

Kit #: 9731114 Result: < 0.3 pCi/l

Location:

Mv-104 Class B

,

Analysis Note :

Analyzed : 2021-09-09 at 1:00 pm

Started : 2021-08-31 at 4:00 pm

Ended : 2021-09-03 at 4:00 pm

Hours/MST% : 72 hours 4.5% 70°F

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9731111 Result: < 0.3 pCi/l

Location:

Mv- 119 Class

,

Analysis Note :

Analyzed : 2021-09-09 at 2:00 pm

Started : 2021-08-31 at 5:00 pm

Ended : 2021-09-03 at 4:00 pm

Hours/MST% : 71 hours 12.4% 70°F

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9731102 Result: < 0.3 pCi/l

Location:

Mv-113 Class

,

Analysis Note :

Analyzed : 2021-09-09 at 1:00 pm

Started : 2021-08-31 at 5:00 pm

Ended : 2021-09-03 at 4:00 pm

Hours/MST% : 71 hours 13.1% 70°F

Kit #: 9731116 Result: 0.6 ± 0.4 pCi/l

Location:

Mv-113 Class D

,

Analysis Note :

Analyzed : 2021-09-09 at 2:00 pm

Started : 2021-08-31 at 5:00 pm

Ended : 2021-09-03 at 4:00 pm

Hours/MST% : 71 hours 11.7% 70°F

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9731112 Result: 0.8 ± 0.5 pCi/l

Location:

Mv-123 Class

,

Analysis Note :

Analyzed : 2021-09-09 at 2:00 pm

Started : 2021-08-31 at 5:00 pm

Ended : 2021-09-03 at 4:00 pm

Hours/MST% : 71 hours 10.3% 70°F

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9723895 Result: 0.7 ± 0.4 pCi/l

Location:

Mv-228 Class

,

Analysis Note :

Analyzed : 2021-09-09 at 1:00 pm

Started : 2021-08-31 at 6:00 pm

Ended : 2021-09-03 at 4:00 pm

Hours/MST% : 70 hours 11.4% 70°F

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9731109 Result: < 0.3 pCi/l

Location:

Mv- 318 Class

,

Analysis Note :

Analyzed : 2021-09-09 at 2:00 pm

Started : 2021-08-31 at 5:00 pm

Ended : 2021-09-03 at 4:00 pm

Hours/MST% : 71 hours 14.3% 70°F

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9723771 Result: 0.7 ± 0.4 pCi/l

Location:

Mv-220 Class

,

Analysis Note :

Analyzed : 2021-09-09 at 2:00 pm

Started : 2021-08-31 at 6:00 pm

Ended : 2021-09-03 at 4:00 pm

Hours/MST% : 70 hours 13.6% 70°F

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9731101 Result: 1.1 ± 0.5 pCi/l

Location:

Mv-Gym 2
,

Analysis Note :

Analyzed : 2021-09-09 at 2:00 pm

Started : 2021-08-31 at 5:00 pm

Ended : 2021-09-03 at 4:00 pm

Hours/MST% : 71 hours 11.2% 70°F

Kit #: 9731105 Result: 1.0 ± 0.4 pCi/l

Location:

Mv-Audio 2
,

Analysis Note :

Analyzed : 2021-09-09 at 1:00 pm

Started : 2021-08-31 at 4:00 pm

Ended : 2021-09-03 at 4:00 pm

Hours/MST% : 72 hours 12.8% 70°F

Kit #: 9731110 Result: 0.9 ± 0.4 pCi/l

Location:

Mv-Cafe 2
,

Analysis Note :

Analyzed : 2021-09-09 at 2:00 pm

Started : 2021-08-31 at 5:00 pm

Ended : 2021-09-03 at 4:00 pm

Hours/MST% : 71 hours 9.7% 70°F

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9731106 Result: < 0.3 pCi/l

Location:

Mv-Hall 201
,

Analysis Note :

Analyzed : 2021-09-09 at 2:00 pm

Started : 2021-08-31 at 6:00 pm

Ended : 2021-09-03 at 4:00 pm

Hours/MST% : 70 hours 9.6% 70°F

Kit #: 9731119 Result: < 0.3 pCi/l

Location:

Mv-201
,

Analysis Note :

Analyzed : 2021-09-09 at 2:00 pm

Started : 2021-09-03 at 12:00 pm

Ended : 2021-09-07 at 4:00 pm

Hours/MST% : 100 hours 9.7% 70°F

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9723767 Result: 0.8 ± 0.4 pCi/l

Location:

Mv-Hall 213-215
,

Analysis Note :

Analyzed : 2021-09-09 at 2:00 pm

Started : 2021-08-31 at 6:00 pm

Ended : 2021-09-03 at 4:00 pm

Hours/MST% : 70 hours 10.3% 70°F

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9723767 Result: 0.8 ± 0.4 pCi/l

Location:

Mv-Hall 213-215
,

Analysis Note :

Analyzed : 2021-09-09 at 2:00 pm

Started : 2021-08-31 at 6:00 pm

Ended : 2021-09-03 at 4:00 pm

Hours/MST% : 70 hours 10.3% 70°F

Kit #: 9731104 Result: < 0.3 pCi/l

Location:

Mv-Gym 1

,

Analysis Note :

Analyzed : 2021-09-09 at 2:00 pm

Started : 2021-08-31 at 5:00 pm

Ended : 2021-09-03 at 4:00 pm

Hours/MST% : 71 hours 10.5% 70°F

Kit #: 9731108 Result: < 0.3 pCi/l

Location:

Mv-Audio 1

,

Analysis Note :

Analyzed : 2021-09-09 at 2:00 pm

Started : 2021-08-31 at 4:00 pm

Ended : 2021-09-03 at 4:00 pm

Hours/MST% : 72 hours 11.0% 70°F

Kit #: 9731113 Result: < 0.3 pCi/l

Location:

Mv-Cafe 1

,

Analysis Note :

Analyzed : 2021-09-09 at 1:00 pm

Started : 2021-08-31 at 5:00 pm

Ended : 2021-09-03 at 4:00 pm

Hours/MST% : 71 hours 9.6% 70°F

Kit #: 9731103 Result: 0.9 ± 0.4 pCi/l

Location:

Mv-Travel Blank

,

Analysis Note :

Analyzed : 2021-09-09 at 1:00 pm

Started : 2021-08-31 at 5:00 pm

Ended : 2021-09-03 at 4:00 pm

Hours/MST% : 71 hours 11.0% 70°F

Kit #: 9731115 Result: 0.7 ± 0.4 pCi/l

Location:

Mv-Reception

,

Analysis Note :

Analyzed : 2021-09-09 at 1:00 pm

Started : 2021-08-31 at 4:00 pm

Ended : 2021-09-03 at 4:00 pm

Hours/MST% : 72 hours 12.4% 70°F

Kit #: 9731117 Result: < 0.3 pCi/l

Location:

Mv-Media D

,

Analysis Note :

Analyzed : 2021-09-09 at 2:00 pm

Started : 2021-09-03 at 12:00 pm

Ended : 2021-09-07 at 3:00 pm

Hours/MST% : 99 hours 13.7% 70°F

Kit #: 9731118 Result: < 0.3 pCi/l

Location:

Mv-Library

,

Analysis Note :

Analyzed : 2021-09-09 at 1:00 pm

Started : 2021-08-31 at 4:00 pm

Ended : 2021-09-03 at 4:00 pm

Hours/MST% : 72 hours 8.9% 70°F

Appendix C: VOCs (TO+15) Analytical Results

Project Name: ACPS IAQ Testing
PSS Project No.: 21090907

September 17, 2021

Karl Ford
Total Environmental Concepts - Lorton
8382 Terminal Road, Suite B
Lorton, VA 22079



Reference: PSS Project No: **21090907**
Project Name: ACPS IAQ Testing
Project Location: Mt. Vernon School
Project ID.: 4920002

Dear Karl Ford:

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Project number(s) **21090907**.

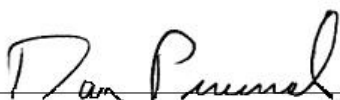
All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on October 14, 2021, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,


Dan Prucnal

Laboratory Manager

Explanation of Qualifiers

Project Name: ACPS IAQ Testing
PSS Project No.: 21090907

Project ID: 4920002

The following samples were received under chain of custody by Phase Separation Science (PSS) on 09/09/2021 at 12:30 pm

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
21090907-001	MV - Reception	AIR	09/08/21 19:49
21090907-002	MV - 104 Class	AIR	09/08/21 19:51
21090907-003	MV - Library	AIR	09/08/21 19:54
21090907-004	MV - Auditorium	AIR	09/08/21 19:56
21090907-005	MV - 113 Class	AIR	09/08/21 19:58
21090907-006	MV - 119 Class	AIR	09/08/21 20:00
21090907-007	MV - Cafeteria	AIR	09/08/21 20:02
21090907-008	MV - 123 Class	AIR	09/08/21 20:04
21090907-009	MV - Gym	AIR	09/08/21 20:07
21090907-010	MV - Outside	AIR	09/08/21 19:50
21090907-011	MV - 220	AIR	09/08/21 19:52
21090907-012	MV - 228	AIR	09/08/21 19:54
21090907-013	MV - 234	AIR	09/08/21 19:57
21090907-014	MV - 323	AIR	09/08/21 20:00
21090907-015	MV - 318	AIR	09/08/21 20:01

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminants, and part 141.3, for the secondary drinking water contaminants.
5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].
7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.

Explanation of Qualifiers

Project Name: ACPS IAQ Testing

PSS Project No.: 21090907

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than the MDL.
- MDL This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156
State Certifications: MD 179, WV 303
Regulated Soil Permit: P330-12-00268
NSWC USCG Accepted Laboratory
LDBE MWAA LD1997-0041-2015

Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21090907

Sample ID: MV - Reception **Date/Time Sampled: 09/08/2021 19:49** **PSS Sample ID: 21090907-001**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187518 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	36	ug/M3	9.5		1	09/10/21	09/10/21 22:33	1014
Benzene	0.35	ug/M3	0.32		1	09/10/21	09/10/21 22:33	1014
Benzyl Chloride	ND	ug/M3	1.0		1	09/10/21	09/10/21 22:33	1014
Bromodichloromethane	ND	ug/M3	1.3		1	09/10/21	09/10/21 22:33	1014
Bromoform	ND	ug/M3	2.1		1	09/10/21	09/10/21 22:33	1014
Bromomethane	ND	ug/M3	0.78		1	09/10/21	09/10/21 22:33	1014
1,3-Butadiene	ND	ug/M3	0.44		1	09/10/21	09/10/21 22:33	1014
2-Butanone (MEK)	1.6	ug/M3	1.5		1	09/10/21	09/10/21 22:33	1014
Carbon Disulfide	ND	ug/M3	12		1	09/10/21	09/10/21 22:33	1014
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/10/21	09/10/21 22:33	1014
Chlorobenzene	ND	ug/M3	0.92		1	09/10/21	09/10/21 22:33	1014
Chloroethane	ND	ug/M3	0.53		1	09/10/21	09/10/21 22:33	1014
Chloroform	ND	ug/M3	0.98		1	09/10/21	09/10/21 22:33	1014
Chloromethane	1.1	ug/M3	0.41		1	09/10/21	09/10/21 22:33	1014
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/10/21	09/10/21 22:33	1014
Cyclohexane	ND	ug/M3	0.69		1	09/10/21	09/10/21 22:33	1014
Dibromochloromethane	ND	ug/M3	1.7		1	09/10/21	09/10/21 22:33	1014
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/10/21	09/10/21 22:33	1014
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/10/21	09/10/21 22:33	1014
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/10/21	09/10/21 22:33	1014
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/10/21	09/10/21 22:33	1014
Dichlorodifluoromethane	1.2	ug/M3	0.99		1	09/10/21	09/10/21 22:33	1014
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/10/21	09/10/21 22:33	1014
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/10/21	09/10/21 22:33	1014
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/10/21	09/10/21 22:33	1014
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/10/21	09/10/21 22:33	1014
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/10/21	09/10/21 22:33	1014
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/10/21	09/10/21 22:33	1014
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/10/21	09/10/21 22:33	1014
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/10/21	09/10/21 22:33	1014
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/10/21	09/10/21 22:33	1014
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/10/21	09/10/21 22:33	1014
Ethyl Acetate	1.5	ug/M3	0.72		1	09/10/21	09/10/21 22:33	1014
Ethylbenzene	1.3	ug/M3	0.43		1	09/10/21	09/10/21 22:33	1014
4-Ethyltoluene	ND	ug/M3	0.98		1	09/10/21	09/10/21 22:33	1014

Certificate of Analysis

Project Name: ACPS IAQ Testing
 PSS Project No.: 21090907

Sample ID: MV - Reception **Date/Time Sampled: 09/08/2021 19:49** **PSS Sample ID: 21090907-001**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187518 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82		1	09/10/21	09/10/21 22:33	1014
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/10/21	09/10/21 22:33	1014
n-Hexane	ND	ug/M3	14		1	09/10/21	09/10/21 22:33	1014
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/10/21	09/10/21 22:33	1014
Isopropylbenzene	ND	ug/M3	0.98		1	09/10/21	09/10/21 22:33	1014
Methylene Chloride	ND	ug/M3	14		1	09/10/21	09/10/21 22:33	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/10/21	09/10/21 22:33	1014
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/10/21	09/10/21 22:33	1014
Naphthalene	ND	ug/M3	0.52		1	09/10/21	09/10/21 22:33	1014
Propylene	ND	ug/M3	1.7		1	09/10/21	09/10/21 22:33	1014
n-Propylbenzene	ND	ug/M3	0.98		1	09/10/21	09/10/21 22:33	1014
Styrene	ND	ug/M3	4.3		1	09/10/21	09/10/21 22:33	1014
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/10/21	09/10/21 22:33	1014
Tetrachloroethene	ND	ug/M3	1.4		1	09/10/21	09/10/21 22:33	1014
Tetrahydrofuran	ND	ug/M3	0.59		1	09/10/21	09/10/21 22:33	1014
Toluene	8.3	ug/M3	0.38		1	09/10/21	09/10/21 22:33	1014
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/10/21	09/10/21 22:33	1014
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/10/21	09/10/21 22:33	1014
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/10/21	09/10/21 22:33	1014
Trichloroethene	ND	ug/M3	1.1		1	09/10/21	09/10/21 22:33	1014
Trichlorofluoromethane	ND	ug/M3	1.1		1	09/10/21	09/10/21 22:33	1014
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/10/21	09/10/21 22:33	1014
1,2,4-Trimethylbenzene	ND	ug/M3	0.98		1	09/10/21	09/10/21 22:33	1014
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/10/21	09/10/21 22:33	1014
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/10/21	09/10/21 22:33	1014
Vinyl acetate	ND	ug/M3	1.8		1	09/10/21	09/10/21 22:33	1014
Bromoethene	ND	ug/M3	0.87		1	09/10/21	09/10/21 22:33	1014
Vinyl chloride	ND	ug/M3	0.51		1	09/10/21	09/10/21 22:33	1014
m&p-Xylene	3.7	ug/M3	0.87		1	09/10/21	09/10/21 22:33	1014
o-Xylene	1.4	ug/M3	0.43		1	09/10/21	09/10/21 22:33	1014

Surrogate(s)	Recovery	Limits
4-Bromofluorobenzene	106 %	87-120

Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21090907

Sample ID: MV - 104 Class **Date/Time Sampled: 09/08/2021 19:51** **PSS Sample ID: 21090907-002**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	280	ug/M3	95		10	09/09/21	09/11/21 00:13	1014
Benzene	0.42	ug/M3	0.32		1	09/09/21	09/09/21 15:29	1014
Benzyl Chloride	ND	ug/M3	1.0		1	09/09/21	09/09/21 15:29	1014
Bromodichloromethane	ND	ug/M3	1.3		1	09/09/21	09/09/21 15:29	1014
Bromoform	ND	ug/M3	2.1		1	09/09/21	09/09/21 15:29	1014
Bromomethane	ND	ug/M3	0.78		1	09/09/21	09/09/21 15:29	1014
1,3-Butadiene	ND	ug/M3	0.44		1	09/09/21	09/09/21 15:29	1014
2-Butanone (MEK)	2.7	ug/M3	1.5		1	09/09/21	09/09/21 15:29	1014
Carbon Disulfide	ND	ug/M3	12		1	09/09/21	09/09/21 15:29	1014
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/09/21	09/09/21 15:29	1014
Chlorobenzene	ND	ug/M3	0.92		1	09/09/21	09/09/21 15:29	1014
Chloroethane	ND	ug/M3	0.53		1	09/09/21	09/09/21 15:29	1014
Chloroform	ND	ug/M3	0.98		1	09/09/21	09/09/21 15:29	1014
Chloromethane	1.3	ug/M3	0.41		1	09/09/21	09/09/21 15:29	1014
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/09/21	09/09/21 15:29	1014
Cyclohexane	ND	ug/M3	0.69		1	09/09/21	09/09/21 15:29	1014
Dibromochloromethane	ND	ug/M3	1.7		1	09/09/21	09/09/21 15:29	1014
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/09/21	09/09/21 15:29	1014
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 15:29	1014
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 15:29	1014
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 15:29	1014
Dichlorodifluoromethane	1.6	ug/M3	0.99		1	09/09/21	09/09/21 15:29	1014
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/09/21 15:29	1014
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/09/21 15:29	1014
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 15:29	1014
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 15:29	1014
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 15:29	1014
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/09/21	09/09/21 15:29	1014
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/09/21 15:29	1014
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/09/21 15:29	1014
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/09/21	09/09/21 15:29	1014
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/09/21	09/09/21 15:29	1014
Ethyl Acetate	1.2	ug/M3	0.72		1	09/09/21	09/09/21 15:29	1014
Ethylbenzene	0.65	ug/M3	0.43		1	09/09/21	09/09/21 15:29	1014
4-Ethyltoluene	ND	ug/M3	0.98		1	09/09/21	09/09/21 15:29	1014

Certificate of Analysis

Project Name: ACPS IAQ Testing
 PSS Project No.: 21090907

Sample ID: MV - 104 Class **Date/Time Sampled: 09/08/2021 19:51** **PSS Sample ID: 21090907-002**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	1.5	ug/M3	0.82		1	09/09/21	09/09/21 15:29	1014
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/09/21	09/09/21 15:29	1014
n-Hexane	ND	ug/M3	14		1	09/09/21	09/09/21 15:29	1014
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/09/21	09/09/21 15:29	1014
Isopropylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 15:29	1014
Methylene Chloride	ND	ug/M3	14		1	09/09/21	09/09/21 15:29	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/09/21	09/09/21 15:29	1014
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/09/21	09/09/21 15:29	1014
Naphthalene	0.58	ug/M3	0.52		1	09/09/21	09/09/21 15:29	1014
Propylene	ND	ug/M3	1.7		1	09/09/21	09/09/21 15:29	1014
n-Propylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 15:29	1014
Styrene	ND	ug/M3	4.3		1	09/09/21	09/09/21 15:29	1014
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/09/21	09/09/21 15:29	1014
Tetrachloroethene	13	ug/M3	1.4		1	09/09/21	09/09/21 15:29	1014
Tetrahydrofuran	ND	ug/M3	0.59		1	09/09/21	09/09/21 15:29	1014
Toluene	4.5	ug/M3	0.38		1	09/09/21	09/09/21 15:29	1014
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/09/21	09/09/21 15:29	1014
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 15:29	1014
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 15:29	1014
Trichloroethene	ND	ug/M3	1.1		1	09/09/21	09/09/21 15:29	1014
Trichlorofluoromethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 15:29	1014
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/09/21	09/09/21 15:29	1014
1,2,4-Trimethylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 15:29	1014
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 15:29	1014
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/09/21	09/09/21 15:29	1014
Vinyl acetate	ND	ug/M3	1.8		1	09/09/21	09/09/21 15:29	1014
Bromoethene	ND	ug/M3	0.87		1	09/09/21	09/09/21 15:29	1014
Vinyl chloride	ND	ug/M3	0.51		1	09/09/21	09/09/21 15:29	1014
m&p-Xylene	1.9	ug/M3	0.87		1	09/09/21	09/09/21 15:29	1014
o-Xylene	0.78	ug/M3	0.43		1	09/09/21	09/09/21 15:29	1014
Surrogate(s)	Recovery		Limits					
4-Bromofluorobenzene	103 %		87-120		1	09/09/21	09/09/21 15:29	1014
4-Bromofluorobenzene	104 %		87-120		10	09/10/21	09/11/21 00:13	1014

Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21090907

Sample ID: MV - Library **Date/Time Sampled: 09/08/2021 19:54** **PSS Sample ID: 21090907-003**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	85	ug/M3	24		2.5	09/09/21	09/10/21 23:23	1014
Benzene	0.38	ug/M3	0.32		1	09/09/21	09/09/21 16:23	1014
Benzyl Chloride	ND	ug/M3	1.0		1	09/09/21	09/09/21 16:23	1014
Bromodichloromethane	ND	ug/M3	1.3		1	09/09/21	09/09/21 16:23	1014
Bromoform	ND	ug/M3	2.1		1	09/09/21	09/09/21 16:23	1014
Bromomethane	ND	ug/M3	0.78		1	09/09/21	09/09/21 16:23	1014
1,3-Butadiene	ND	ug/M3	0.44		1	09/09/21	09/09/21 16:23	1014
2-Butanone (MEK)	1.9	ug/M3	1.5		1	09/09/21	09/09/21 16:23	1014
Carbon Disulfide	ND	ug/M3	12		1	09/09/21	09/09/21 16:23	1014
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/09/21	09/09/21 16:23	1014
Chlorobenzene	ND	ug/M3	0.92		1	09/09/21	09/09/21 16:23	1014
Chloroethane	ND	ug/M3	0.53		1	09/09/21	09/09/21 16:23	1014
Chloroform	ND	ug/M3	0.98		1	09/09/21	09/09/21 16:23	1014
Chloromethane	1.2	ug/M3	0.41		1	09/09/21	09/09/21 16:23	1014
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/09/21	09/09/21 16:23	1014
Cyclohexane	ND	ug/M3	0.69		1	09/09/21	09/09/21 16:23	1014
Dibromochloromethane	ND	ug/M3	1.7		1	09/09/21	09/09/21 16:23	1014
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/09/21	09/09/21 16:23	1014
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 16:23	1014
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 16:23	1014
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 16:23	1014
Dichlorodifluoromethane	1.5	ug/M3	0.99		1	09/09/21	09/09/21 16:23	1014
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/09/21 16:23	1014
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/09/21 16:23	1014
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 16:23	1014
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 16:23	1014
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 16:23	1014
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/09/21	09/09/21 16:23	1014
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/09/21 16:23	1014
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/09/21 16:23	1014
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/09/21	09/09/21 16:23	1014
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/09/21	09/09/21 16:23	1014
Ethyl Acetate	ND	ug/M3	0.72		1	09/09/21	09/09/21 16:23	1014
Ethylbenzene	ND	ug/M3	0.43		1	09/09/21	09/09/21 16:23	1014
4-Ethyltoluene	ND	ug/M3	0.98		1	09/09/21	09/09/21 16:23	1014

Certificate of Analysis

Project Name: ACPS IAQ Testing
 PSS Project No.: 21090907

Sample ID: MV - Library **Date/Time Sampled: 09/08/2021 19:54** **PSS Sample ID: 21090907-003**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82		1	09/09/21	09/09/21 16:23	1014
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/09/21	09/09/21 16:23	1014
n-Hexane	ND	ug/M3	14		1	09/09/21	09/09/21 16:23	1014
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/09/21	09/09/21 16:23	1014
Isopropylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 16:23	1014
Methylene Chloride	ND	ug/M3	14		1	09/09/21	09/09/21 16:23	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/09/21	09/09/21 16:23	1014
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/09/21	09/09/21 16:23	1014
Naphthalene	0.73	ug/M3	0.52		1	09/09/21	09/09/21 16:23	1014
Propylene	ND	ug/M3	1.7		1	09/09/21	09/09/21 16:23	1014
n-Propylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 16:23	1014
Styrene	ND	ug/M3	4.3		1	09/09/21	09/09/21 16:23	1014
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/09/21	09/09/21 16:23	1014
Tetrachloroethene	ND	ug/M3	1.4		1	09/09/21	09/09/21 16:23	1014
Tetrahydrofuran	ND	ug/M3	0.59		1	09/09/21	09/09/21 16:23	1014
Toluene	2.5	ug/M3	0.38		1	09/09/21	09/09/21 16:23	1014
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/09/21	09/09/21 16:23	1014
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 16:23	1014
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 16:23	1014
Trichloroethene	ND	ug/M3	1.1		1	09/09/21	09/09/21 16:23	1014
Trichlorofluoromethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 16:23	1014
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/09/21	09/09/21 16:23	1014
1,2,4-Trimethylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 16:23	1014
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 16:23	1014
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/09/21	09/09/21 16:23	1014
Vinyl acetate	ND	ug/M3	1.8		1	09/09/21	09/09/21 16:23	1014
Bromoethene	ND	ug/M3	0.87		1	09/09/21	09/09/21 16:23	1014
Vinyl chloride	ND	ug/M3	0.51		1	09/09/21	09/09/21 16:23	1014
m&p-Xylene	1.2	ug/M3	0.87		1	09/09/21	09/09/21 16:23	1014
o-Xylene	0.52	ug/M3	0.43		1	09/09/21	09/09/21 16:23	1014
Surrogate(s)	Recovery		Limits					
4-Bromofluorobenzene	102 %		87-120		1	09/09/21	09/09/21 16:23	1014
4-Bromofluorobenzene	105 %		87-120		2.5	09/10/21	09/10/21 23:23	1014

Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21090907

Sample ID: MV - Auditorium **Date/Time Sampled: 09/08/2021 19:56** **PSS Sample ID: 21090907-004**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	21	ug/M3	9.5		1	09/09/21	09/09/21 17:17	1014
Benzene	0.35	ug/M3	0.32		1	09/09/21	09/09/21 17:17	1014
Benzyl Chloride	ND	ug/M3	1.0		1	09/09/21	09/09/21 17:17	1014
Bromodichloromethane	ND	ug/M3	1.3		1	09/09/21	09/09/21 17:17	1014
Bromoform	ND	ug/M3	2.1		1	09/09/21	09/09/21 17:17	1014
Bromomethane	ND	ug/M3	0.78		1	09/09/21	09/09/21 17:17	1014
1,3-Butadiene	ND	ug/M3	0.44		1	09/09/21	09/09/21 17:17	1014
2-Butanone (MEK)	2.0	ug/M3	1.5		1	09/09/21	09/09/21 17:17	1014
Carbon Disulfide	ND	ug/M3	12		1	09/09/21	09/09/21 17:17	1014
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/09/21	09/09/21 17:17	1014
Chlorobenzene	ND	ug/M3	0.92		1	09/09/21	09/09/21 17:17	1014
Chloroethane	ND	ug/M3	0.53		1	09/09/21	09/09/21 17:17	1014
Chloroform	ND	ug/M3	0.98		1	09/09/21	09/09/21 17:17	1014
Chloromethane	0.91	ug/M3	0.41		1	09/09/21	09/09/21 17:17	1014
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/09/21	09/09/21 17:17	1014
Cyclohexane	ND	ug/M3	0.69		1	09/09/21	09/09/21 17:17	1014
Dibromochloromethane	ND	ug/M3	1.7		1	09/09/21	09/09/21 17:17	1014
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/09/21	09/09/21 17:17	1014
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 17:17	1014
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 17:17	1014
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 17:17	1014
Dichlorodifluoromethane	1.3	ug/M3	0.99		1	09/09/21	09/09/21 17:17	1014
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/09/21 17:17	1014
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/09/21 17:17	1014
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 17:17	1014
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 17:17	1014
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 17:17	1014
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/09/21	09/09/21 17:17	1014
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/09/21 17:17	1014
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/09/21 17:17	1014
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/09/21	09/09/21 17:17	1014
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/09/21	09/09/21 17:17	1014
Ethyl Acetate	ND	ug/M3	0.72		1	09/09/21	09/09/21 17:17	1014
Ethylbenzene	ND	ug/M3	0.43		1	09/09/21	09/09/21 17:17	1014
4-Ethyltoluene	ND	ug/M3	0.98		1	09/09/21	09/09/21 17:17	1014

Certificate of Analysis

Project Name: ACPS IAQ Testing
 PSS Project No.: 21090907

Sample ID: MV - Auditorium **Date/Time Sampled: 09/08/2021 19:56** **PSS Sample ID: 21090907-004**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82		1	09/09/21	09/09/21 17:17	1014
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/09/21	09/09/21 17:17	1014
n-Hexane	ND	ug/M3	14		1	09/09/21	09/09/21 17:17	1014
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/09/21	09/09/21 17:17	1014
Isopropylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 17:17	1014
Methylene Chloride	ND	ug/M3	14		1	09/09/21	09/09/21 17:17	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/09/21	09/09/21 17:17	1014
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/09/21	09/09/21 17:17	1014
Naphthalene	2.0	ug/M3	0.52		1	09/09/21	09/09/21 17:17	1014
Propylene	ND	ug/M3	1.7		1	09/09/21	09/09/21 17:17	1014
n-Propylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 17:17	1014
Styrene	ND	ug/M3	4.3		1	09/09/21	09/09/21 17:17	1014
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/09/21	09/09/21 17:17	1014
Tetrachloroethene	ND	ug/M3	1.4		1	09/09/21	09/09/21 17:17	1014
Tetrahydrofuran	ND	ug/M3	0.59		1	09/09/21	09/09/21 17:17	1014
Toluene	2.3	ug/M3	0.38		1	09/09/21	09/09/21 17:17	1014
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/09/21	09/09/21 17:17	1014
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 17:17	1014
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 17:17	1014
Trichloroethene	ND	ug/M3	1.1		1	09/09/21	09/09/21 17:17	1014
Trichlorofluoromethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 17:17	1014
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/09/21	09/09/21 17:17	1014
1,2,4-Trimethylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 17:17	1014
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 17:17	1014
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/09/21	09/09/21 17:17	1014
Vinyl acetate	ND	ug/M3	1.8		1	09/09/21	09/09/21 17:17	1014
Bromoethene	ND	ug/M3	0.87		1	09/09/21	09/09/21 17:17	1014
Vinyl chloride	ND	ug/M3	0.51		1	09/09/21	09/09/21 17:17	1014
m&p-Xylene	0.91	ug/M3	0.87		1	09/09/21	09/09/21 17:17	1014
o-Xylene	ND	ug/M3	0.43		1	09/09/21	09/09/21 17:17	1014

Surrogate(s)	Recovery	Limits
4-Bromofluorobenzene	104 %	87-120

Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21090907

Sample ID: MV - 113 Class **Date/Time Sampled: 09/08/2021 19:58** **PSS Sample ID: 21090907-005**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	38	ug/M3	9.5		1	09/09/21	09/09/21 18:11	1014
Benzene	0.42	ug/M3	0.32		1	09/09/21	09/09/21 18:11	1014
Benzyl Chloride	ND	ug/M3	1.0		1	09/09/21	09/09/21 18:11	1014
Bromodichloromethane	ND	ug/M3	1.3		1	09/09/21	09/09/21 18:11	1014
Bromoform	ND	ug/M3	2.1		1	09/09/21	09/09/21 18:11	1014
Bromomethane	ND	ug/M3	0.78		1	09/09/21	09/09/21 18:11	1014
1,3-Butadiene	ND	ug/M3	0.44		1	09/09/21	09/09/21 18:11	1014
2-Butanone (MEK)	2.2	ug/M3	1.5		1	09/09/21	09/09/21 18:11	1014
Carbon Disulfide	ND	ug/M3	12		1	09/09/21	09/09/21 18:11	1014
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/09/21	09/09/21 18:11	1014
Chlorobenzene	ND	ug/M3	0.92		1	09/09/21	09/09/21 18:11	1014
Chloroethane	ND	ug/M3	0.53		1	09/09/21	09/09/21 18:11	1014
Chloroform	0.98	ug/M3	0.98		1	09/09/21	09/09/21 18:11	1014
Chloromethane	1.1	ug/M3	0.41		1	09/09/21	09/09/21 18:11	1014
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/09/21	09/09/21 18:11	1014
Cyclohexane	ND	ug/M3	0.69		1	09/09/21	09/09/21 18:11	1014
Dibromochloromethane	ND	ug/M3	1.7		1	09/09/21	09/09/21 18:11	1014
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/09/21	09/09/21 18:11	1014
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 18:11	1014
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 18:11	1014
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 18:11	1014
Dichlorodifluoromethane	1.5	ug/M3	0.99		1	09/09/21	09/09/21 18:11	1014
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/09/21 18:11	1014
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/09/21 18:11	1014
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 18:11	1014
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 18:11	1014
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 18:11	1014
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/09/21	09/09/21 18:11	1014
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/09/21 18:11	1014
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/09/21 18:11	1014
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/09/21	09/09/21 18:11	1014
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/09/21	09/09/21 18:11	1014
Ethyl Acetate	0.86	ug/M3	0.72		1	09/09/21	09/09/21 18:11	1014
Ethylbenzene	0.43	ug/M3	0.43		1	09/09/21	09/09/21 18:11	1014
4-Ethyltoluene	ND	ug/M3	0.98		1	09/09/21	09/09/21 18:11	1014

Certificate of Analysis

Project Name: ACPS IAQ Testing
 PSS Project No.: 21090907

Sample ID: MV - 113 Class **Date/Time Sampled: 09/08/2021 19:58** **PSS Sample ID: 21090907-005**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82		1	09/09/21	09/09/21 18:11	1014
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/09/21	09/09/21 18:11	1014
n-Hexane	ND	ug/M3	14		1	09/09/21	09/09/21 18:11	1014
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/09/21	09/09/21 18:11	1014
Isopropylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 18:11	1014
Methylene Chloride	ND	ug/M3	14		1	09/09/21	09/09/21 18:11	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/09/21	09/09/21 18:11	1014
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/09/21	09/09/21 18:11	1014
Naphthalene	1.2	ug/M3	0.52		1	09/09/21	09/09/21 18:11	1014
Propylene	ND	ug/M3	1.7		1	09/09/21	09/09/21 18:11	1014
n-Propylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 18:11	1014
Styrene	ND	ug/M3	4.3		1	09/09/21	09/09/21 18:11	1014
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/09/21	09/09/21 18:11	1014
Tetrachloroethene	ND	ug/M3	1.4		1	09/09/21	09/09/21 18:11	1014
Tetrahydrofuran	ND	ug/M3	0.59		1	09/09/21	09/09/21 18:11	1014
Toluene	3.2	ug/M3	0.38		1	09/09/21	09/09/21 18:11	1014
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/09/21	09/09/21 18:11	1014
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 18:11	1014
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 18:11	1014
Trichloroethene	ND	ug/M3	1.1		1	09/09/21	09/09/21 18:11	1014
Trichlorofluoromethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 18:11	1014
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/09/21	09/09/21 18:11	1014
1,2,4-Trimethylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 18:11	1014
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 18:11	1014
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/09/21	09/09/21 18:11	1014
Vinyl acetate	ND	ug/M3	1.8		1	09/09/21	09/09/21 18:11	1014
Bromoethene	ND	ug/M3	0.87		1	09/09/21	09/09/21 18:11	1014
Vinyl chloride	ND	ug/M3	0.51		1	09/09/21	09/09/21 18:11	1014
m&p-Xylene	1.3	ug/M3	0.87		1	09/09/21	09/09/21 18:11	1014
o-Xylene	0.61	ug/M3	0.43		1	09/09/21	09/09/21 18:11	1014

Surrogate(s)	Recovery	Limits
4-Bromofluorobenzene	103 %	87-120

Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21090907

Sample ID: MV - 119 Class **Date/Time Sampled: 09/08/2021 20:00** **PSS Sample ID: 21090907-006**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	31	ug/M3	9.5		1	09/09/21	09/09/21 19:05	1014
Benzene	0.42	ug/M3	0.32		1	09/09/21	09/09/21 19:05	1014
Benzyl Chloride	ND	ug/M3	1.0		1	09/09/21	09/09/21 19:05	1014
Bromodichloromethane	ND	ug/M3	1.3		1	09/09/21	09/09/21 19:05	1014
Bromoform	ND	ug/M3	2.1		1	09/09/21	09/09/21 19:05	1014
Bromomethane	ND	ug/M3	0.78		1	09/09/21	09/09/21 19:05	1014
1,3-Butadiene	ND	ug/M3	0.44		1	09/09/21	09/09/21 19:05	1014
2-Butanone (MEK)	3.3	ug/M3	1.5		1	09/09/21	09/09/21 19:05	1014
Carbon Disulfide	ND	ug/M3	12		1	09/09/21	09/09/21 19:05	1014
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/09/21	09/09/21 19:05	1014
Chlorobenzene	ND	ug/M3	0.92		1	09/09/21	09/09/21 19:05	1014
Chloroethane	ND	ug/M3	0.53		1	09/09/21	09/09/21 19:05	1014
Chloroform	ND	ug/M3	0.98		1	09/09/21	09/09/21 19:05	1014
Chloromethane	1.1	ug/M3	0.41		1	09/09/21	09/09/21 19:05	1014
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/09/21	09/09/21 19:05	1014
Cyclohexane	ND	ug/M3	0.69		1	09/09/21	09/09/21 19:05	1014
Dibromochloromethane	ND	ug/M3	1.7		1	09/09/21	09/09/21 19:05	1014
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/09/21	09/09/21 19:05	1014
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 19:05	1014
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 19:05	1014
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 19:05	1014
Dichlorodifluoromethane	1.5	ug/M3	0.99		1	09/09/21	09/09/21 19:05	1014
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/09/21 19:05	1014
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/09/21 19:05	1014
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 19:05	1014
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 19:05	1014
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 19:05	1014
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/09/21	09/09/21 19:05	1014
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/09/21 19:05	1014
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/09/21 19:05	1014
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/09/21	09/09/21 19:05	1014
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/09/21	09/09/21 19:05	1014
Ethyl Acetate	ND	ug/M3	0.72		1	09/09/21	09/09/21 19:05	1014
Ethylbenzene	ND	ug/M3	0.43		1	09/09/21	09/09/21 19:05	1014
4-Ethyltoluene	ND	ug/M3	0.98		1	09/09/21	09/09/21 19:05	1014

Certificate of Analysis

Project Name: ACPS IAQ Testing
 PSS Project No.: 21090907

Sample ID: MV - 119 Class **Date/Time Sampled: 09/08/2021 20:00** **PSS Sample ID: 21090907-006**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82		1	09/09/21	09/09/21 19:05	1014
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/09/21	09/09/21 19:05	1014
n-Hexane	ND	ug/M3	14		1	09/09/21	09/09/21 19:05	1014
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/09/21	09/09/21 19:05	1014
Isopropylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 19:05	1014
Methylene Chloride	ND	ug/M3	14		1	09/09/21	09/09/21 19:05	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/09/21	09/09/21 19:05	1014
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/09/21	09/09/21 19:05	1014
Naphthalene	0.89	ug/M3	0.52		1	09/09/21	09/09/21 19:05	1014
Propylene	ND	ug/M3	1.7		1	09/09/21	09/09/21 19:05	1014
n-Propylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 19:05	1014
Styrene	ND	ug/M3	4.3		1	09/09/21	09/09/21 19:05	1014
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/09/21	09/09/21 19:05	1014
Tetrachloroethene	ND	ug/M3	1.4		1	09/09/21	09/09/21 19:05	1014
Tetrahydrofuran	ND	ug/M3	0.59		1	09/09/21	09/09/21 19:05	1014
Toluene	3.5	ug/M3	0.38		1	09/09/21	09/09/21 19:05	1014
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/09/21	09/09/21 19:05	1014
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 19:05	1014
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 19:05	1014
Trichloroethene	ND	ug/M3	1.1		1	09/09/21	09/09/21 19:05	1014
Trichlorofluoromethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 19:05	1014
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/09/21	09/09/21 19:05	1014
1,2,4-Trimethylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 19:05	1014
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 19:05	1014
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/09/21	09/09/21 19:05	1014
Vinyl acetate	ND	ug/M3	1.8		1	09/09/21	09/09/21 19:05	1014
Bromoethene	ND	ug/M3	0.87		1	09/09/21	09/09/21 19:05	1014
Vinyl chloride	ND	ug/M3	0.51		1	09/09/21	09/09/21 19:05	1014
m&p-Xylene	1.2	ug/M3	0.87		1	09/09/21	09/09/21 19:05	1014
o-Xylene	0.56	ug/M3	0.43		1	09/09/21	09/09/21 19:05	1014

Surrogate(s)	Recovery	Limits
4-Bromofluorobenzene	103 %	87-120

Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21090907

Sample ID: MV - Cafeteria **Date/Time Sampled: 09/08/2021 20:02** **PSS Sample ID: 21090907-007**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	33	ug/M3	9.5		1	09/09/21	09/09/21 19:59	1014
Benzene	0.38	ug/M3	0.32		1	09/09/21	09/09/21 19:59	1014
Benzyl Chloride	ND	ug/M3	1.0		1	09/09/21	09/09/21 19:59	1014
Bromodichloromethane	ND	ug/M3	1.3		1	09/09/21	09/09/21 19:59	1014
Bromoform	ND	ug/M3	2.1		1	09/09/21	09/09/21 19:59	1014
Bromomethane	ND	ug/M3	0.78		1	09/09/21	09/09/21 19:59	1014
1,3-Butadiene	ND	ug/M3	0.44		1	09/09/21	09/09/21 19:59	1014
2-Butanone (MEK)	3.5	ug/M3	1.5		1	09/09/21	09/09/21 19:59	1014
Carbon Disulfide	ND	ug/M3	12		1	09/09/21	09/09/21 19:59	1014
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/09/21	09/09/21 19:59	1014
Chlorobenzene	ND	ug/M3	0.92		1	09/09/21	09/09/21 19:59	1014
Chloroethane	ND	ug/M3	0.53		1	09/09/21	09/09/21 19:59	1014
Chloroform	ND	ug/M3	0.98		1	09/09/21	09/09/21 19:59	1014
Chloromethane	1.1	ug/M3	0.41		1	09/09/21	09/09/21 19:59	1014
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/09/21	09/09/21 19:59	1014
Cyclohexane	ND	ug/M3	0.69		1	09/09/21	09/09/21 19:59	1014
Dibromochloromethane	ND	ug/M3	1.7		1	09/09/21	09/09/21 19:59	1014
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/09/21	09/09/21 19:59	1014
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 19:59	1014
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 19:59	1014
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 19:59	1014
Dichlorodifluoromethane	1.6	ug/M3	0.99		1	09/09/21	09/09/21 19:59	1014
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/09/21 19:59	1014
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/09/21 19:59	1014
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 19:59	1014
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 19:59	1014
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 19:59	1014
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/09/21	09/09/21 19:59	1014
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/09/21 19:59	1014
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/09/21 19:59	1014
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/09/21	09/09/21 19:59	1014
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/09/21	09/09/21 19:59	1014
Ethyl Acetate	ND	ug/M3	0.72		1	09/09/21	09/09/21 19:59	1014
Ethylbenzene	0.43	ug/M3	0.43		1	09/09/21	09/09/21 19:59	1014
4-Ethyltoluene	ND	ug/M3	0.98		1	09/09/21	09/09/21 19:59	1014

Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21090907

Sample ID: MV - Cafeteria **Date/Time Sampled: 09/08/2021 20:02** **PSS Sample ID: 21090907-007**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82		1	09/09/21	09/09/21 19:59	1014
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/09/21	09/09/21 19:59	1014
n-Hexane	ND	ug/M3	14		1	09/09/21	09/09/21 19:59	1014
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/09/21	09/09/21 19:59	1014
Isopropylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 19:59	1014
Methylene Chloride	ND	ug/M3	14		1	09/09/21	09/09/21 19:59	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/09/21	09/09/21 19:59	1014
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/09/21	09/09/21 19:59	1014
Naphthalene	ND	ug/M3	0.52		1	09/09/21	09/09/21 19:59	1014
Propylene	ND	ug/M3	1.7		1	09/09/21	09/09/21 19:59	1014
n-Propylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 19:59	1014
Styrene	ND	ug/M3	4.3		1	09/09/21	09/09/21 19:59	1014
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/09/21	09/09/21 19:59	1014
Tetrachloroethene	ND	ug/M3	1.4		1	09/09/21	09/09/21 19:59	1014
Tetrahydrofuran	ND	ug/M3	0.59		1	09/09/21	09/09/21 19:59	1014
Toluene	8.6	ug/M3	0.38		1	09/09/21	09/09/21 19:59	1014
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/09/21	09/09/21 19:59	1014
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 19:59	1014
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 19:59	1014
Trichloroethene	ND	ug/M3	1.1		1	09/09/21	09/09/21 19:59	1014
Trichlorofluoromethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 19:59	1014
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/09/21	09/09/21 19:59	1014
1,2,4-Trimethylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 19:59	1014
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 19:59	1014
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/09/21	09/09/21 19:59	1014
Vinyl acetate	ND	ug/M3	1.8		1	09/09/21	09/09/21 19:59	1014
Bromoethene	ND	ug/M3	0.87		1	09/09/21	09/09/21 19:59	1014
Vinyl chloride	ND	ug/M3	0.51		1	09/09/21	09/09/21 19:59	1014
m&p-Xylene	1.4	ug/M3	0.87		1	09/09/21	09/09/21 19:59	1014
o-Xylene	0.65	ug/M3	0.43		1	09/09/21	09/09/21 19:59	1014

Surrogate(s)	Recovery	Limits
4-Bromofluorobenzene	104 %	87-120

Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21090907

Sample ID: MV - 123 Class **Date/Time Sampled: 09/08/2021 20:04** **PSS Sample ID: 21090907-008**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	32	ug/M3	9.5		1	09/09/21	09/09/21 20:53	1014
Benzene	0.45	ug/M3	0.32		1	09/09/21	09/09/21 20:53	1014
Benzyl Chloride	ND	ug/M3	1.0		1	09/09/21	09/09/21 20:53	1014
Bromodichloromethane	ND	ug/M3	1.3		1	09/09/21	09/09/21 20:53	1014
Bromoform	ND	ug/M3	2.1		1	09/09/21	09/09/21 20:53	1014
Bromomethane	ND	ug/M3	0.78		1	09/09/21	09/09/21 20:53	1014
1,3-Butadiene	ND	ug/M3	0.44		1	09/09/21	09/09/21 20:53	1014
2-Butanone (MEK)	3.7	ug/M3	1.5		1	09/09/21	09/09/21 20:53	1014
Carbon Disulfide	ND	ug/M3	12		1	09/09/21	09/09/21 20:53	1014
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/09/21	09/09/21 20:53	1014
Chlorobenzene	ND	ug/M3	0.92		1	09/09/21	09/09/21 20:53	1014
Chloroethane	ND	ug/M3	0.53		1	09/09/21	09/09/21 20:53	1014
Chloroform	0.98	ug/M3	0.98		1	09/09/21	09/09/21 20:53	1014
Chloromethane	1.2	ug/M3	0.41		1	09/09/21	09/09/21 20:53	1014
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/09/21	09/09/21 20:53	1014
Cyclohexane	ND	ug/M3	0.69		1	09/09/21	09/09/21 20:53	1014
Dibromochloromethane	ND	ug/M3	1.7		1	09/09/21	09/09/21 20:53	1014
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/09/21	09/09/21 20:53	1014
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 20:53	1014
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 20:53	1014
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 20:53	1014
Dichlorodifluoromethane	1.4	ug/M3	0.99		1	09/09/21	09/09/21 20:53	1014
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/09/21 20:53	1014
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/09/21 20:53	1014
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 20:53	1014
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 20:53	1014
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 20:53	1014
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/09/21	09/09/21 20:53	1014
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/09/21 20:53	1014
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/09/21 20:53	1014
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/09/21	09/09/21 20:53	1014
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/09/21	09/09/21 20:53	1014
Ethyl Acetate	ND	ug/M3	0.72		1	09/09/21	09/09/21 20:53	1014
Ethylbenzene	0.48	ug/M3	0.43		1	09/09/21	09/09/21 20:53	1014
4-Ethyltoluene	ND	ug/M3	0.98		1	09/09/21	09/09/21 20:53	1014

Certificate of Analysis

Project Name: ACPS IAQ Testing
 PSS Project No.: 21090907

Sample ID: MV - 123 Class **Date/Time Sampled: 09/08/2021 20:04** **PSS Sample ID: 21090907-008**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82		1	09/09/21	09/09/21 20:53	1014
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/09/21	09/09/21 20:53	1014
n-Hexane	ND	ug/M3	14		1	09/09/21	09/09/21 20:53	1014
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/09/21	09/09/21 20:53	1014
Isopropylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 20:53	1014
Methylene Chloride	ND	ug/M3	14		1	09/09/21	09/09/21 20:53	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/09/21	09/09/21 20:53	1014
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/09/21	09/09/21 20:53	1014
Naphthalene	1.6	ug/M3	0.52		1	09/09/21	09/09/21 20:53	1014
Propylene	ND	ug/M3	1.7		1	09/09/21	09/09/21 20:53	1014
n-Propylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 20:53	1014
Styrene	ND	ug/M3	4.3		1	09/09/21	09/09/21 20:53	1014
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/09/21	09/09/21 20:53	1014
Tetrachloroethene	ND	ug/M3	1.4		1	09/09/21	09/09/21 20:53	1014
Tetrahydrofuran	ND	ug/M3	0.59		1	09/09/21	09/09/21 20:53	1014
Toluene	3.8	ug/M3	0.38		1	09/09/21	09/09/21 20:53	1014
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/09/21	09/09/21 20:53	1014
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 20:53	1014
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 20:53	1014
Trichloroethene	ND	ug/M3	1.1		1	09/09/21	09/09/21 20:53	1014
Trichlorofluoromethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 20:53	1014
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/09/21	09/09/21 20:53	1014
1,2,4-Trimethylbenzene	1.3	ug/M3	0.98		1	09/09/21	09/09/21 20:53	1014
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 20:53	1014
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/09/21	09/09/21 20:53	1014
Vinyl acetate	ND	ug/M3	1.8		1	09/09/21	09/09/21 20:53	1014
Bromoethene	ND	ug/M3	0.87		1	09/09/21	09/09/21 20:53	1014
Vinyl chloride	ND	ug/M3	0.51		1	09/09/21	09/09/21 20:53	1014
m&p-Xylene	1.7	ug/M3	0.87		1	09/09/21	09/09/21 20:53	1014
o-Xylene	0.78	ug/M3	0.43		1	09/09/21	09/09/21 20:53	1014

Surrogate(s)	Recovery	Limits
4-Bromofluorobenzene	105 %	87-120

Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21090907

Sample ID: MV - Gym **Date/Time Sampled: 09/08/2021 20:07** **PSS Sample ID: 21090907-009**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	21	ug/M3	9.5		1	09/09/21	09/09/21 21:47	1014
Benzene	0.35	ug/M3	0.32		1	09/09/21	09/09/21 21:47	1014
Benzyl Chloride	ND	ug/M3	1.0		1	09/09/21	09/09/21 21:47	1014
Bromodichloromethane	ND	ug/M3	1.3		1	09/09/21	09/09/21 21:47	1014
Bromoform	ND	ug/M3	2.1		1	09/09/21	09/09/21 21:47	1014
Bromomethane	ND	ug/M3	0.78		1	09/09/21	09/09/21 21:47	1014
1,3-Butadiene	ND	ug/M3	0.44		1	09/09/21	09/09/21 21:47	1014
2-Butanone (MEK)	ND	ug/M3	1.5		1	09/09/21	09/09/21 21:47	1014
Carbon Disulfide	ND	ug/M3	12		1	09/09/21	09/09/21 21:47	1014
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/09/21	09/09/21 21:47	1014
Chlorobenzene	ND	ug/M3	0.92		1	09/09/21	09/09/21 21:47	1014
Chloroethane	ND	ug/M3	0.53		1	09/09/21	09/09/21 21:47	1014
Chloroform	ND	ug/M3	0.98		1	09/09/21	09/09/21 21:47	1014
Chloromethane	1.2	ug/M3	0.41		1	09/09/21	09/09/21 21:47	1014
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/09/21	09/09/21 21:47	1014
Cyclohexane	ND	ug/M3	0.69		1	09/09/21	09/09/21 21:47	1014
Dibromochloromethane	ND	ug/M3	1.7		1	09/09/21	09/09/21 21:47	1014
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/09/21	09/09/21 21:47	1014
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 21:47	1014
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 21:47	1014
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 21:47	1014
Dichlorodifluoromethane	1.6	ug/M3	0.99		1	09/09/21	09/09/21 21:47	1014
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/09/21 21:47	1014
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/09/21 21:47	1014
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 21:47	1014
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 21:47	1014
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 21:47	1014
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/09/21	09/09/21 21:47	1014
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/09/21 21:47	1014
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/09/21 21:47	1014
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/09/21	09/09/21 21:47	1014
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/09/21	09/09/21 21:47	1014
Ethyl Acetate	ND	ug/M3	0.72		1	09/09/21	09/09/21 21:47	1014
Ethylbenzene	ND	ug/M3	0.43		1	09/09/21	09/09/21 21:47	1014
4-Ethyltoluene	1.7	ug/M3	0.98		1	09/09/21	09/09/21 21:47	1014

Certificate of Analysis

Project Name: ACPS IAQ Testing
 PSS Project No.: 21090907

Sample ID: MV - Gym **Date/Time Sampled: 09/08/2021 20:07** **PSS Sample ID: 21090907-009**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82		1	09/09/21	09/09/21 21:47	1014
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/09/21	09/09/21 21:47	1014
n-Hexane	ND	ug/M3	14		1	09/09/21	09/09/21 21:47	1014
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/09/21	09/09/21 21:47	1014
Isopropylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 21:47	1014
Methylene Chloride	ND	ug/M3	14		1	09/09/21	09/09/21 21:47	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/09/21	09/09/21 21:47	1014
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/09/21	09/09/21 21:47	1014
Naphthalene	ND	ug/M3	0.52		1	09/09/21	09/09/21 21:47	1014
Propylene	ND	ug/M3	1.7		1	09/09/21	09/09/21 21:47	1014
n-Propylbenzene	0.98	ug/M3	0.98		1	09/09/21	09/09/21 21:47	1014
Styrene	ND	ug/M3	4.3		1	09/09/21	09/09/21 21:47	1014
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/09/21	09/09/21 21:47	1014
Tetrachloroethene	ND	ug/M3	1.4		1	09/09/21	09/09/21 21:47	1014
Tetrahydrofuran	ND	ug/M3	0.59		1	09/09/21	09/09/21 21:47	1014
Toluene	1.8	ug/M3	0.38		1	09/09/21	09/09/21 21:47	1014
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/09/21	09/09/21 21:47	1014
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 21:47	1014
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 21:47	1014
Trichloroethene	ND	ug/M3	1.1		1	09/09/21	09/09/21 21:47	1014
Trichlorofluoromethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 21:47	1014
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/09/21	09/09/21 21:47	1014
1,2,4-Trimethylbenzene	5.4	ug/M3	0.98		1	09/09/21	09/09/21 21:47	1014
1,3,5-Trimethylbenzene	2.7	ug/M3	0.98		1	09/09/21	09/09/21 21:47	1014
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/09/21	09/09/21 21:47	1014
Vinyl acetate	ND	ug/M3	1.8		1	09/09/21	09/09/21 21:47	1014
Bromoethene	ND	ug/M3	0.87		1	09/09/21	09/09/21 21:47	1014
Vinyl chloride	ND	ug/M3	0.51		1	09/09/21	09/09/21 21:47	1014
m&p-Xylene	1.6	ug/M3	0.87		1	09/09/21	09/09/21 21:47	1014
o-Xylene	0.78	ug/M3	0.43		1	09/09/21	09/09/21 21:47	1014

Surrogate(s)	Recovery	Limits					
4-Bromofluorobenzene	105 %	87-120	1	09/09/21	09/09/21 21:47	1014	

Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21090907

Sample ID: MV - Outside **Date/Time Sampled: 09/08/2021 19:50** **PSS Sample ID: 21090907-010**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/M3	9.5		1	09/09/21	09/09/21 22:41	1014
Benzene	ND	ug/M3	0.32		1	09/09/21	09/09/21 22:41	1014
Benzyl Chloride	ND	ug/M3	1.0		1	09/09/21	09/09/21 22:41	1014
Bromodichloromethane	ND	ug/M3	1.3		1	09/09/21	09/09/21 22:41	1014
Bromoform	ND	ug/M3	2.1		1	09/09/21	09/09/21 22:41	1014
Bromomethane	ND	ug/M3	0.78		1	09/09/21	09/09/21 22:41	1014
1,3-Butadiene	ND	ug/M3	0.44		1	09/09/21	09/09/21 22:41	1014
2-Butanone (MEK)	ND	ug/M3	1.5		1	09/09/21	09/09/21 22:41	1014
Carbon Disulfide	ND	ug/M3	12		1	09/09/21	09/09/21 22:41	1014
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/09/21	09/09/21 22:41	1014
Chlorobenzene	ND	ug/M3	0.92		1	09/09/21	09/09/21 22:41	1014
Chloroethane	ND	ug/M3	0.53		1	09/09/21	09/09/21 22:41	1014
Chloroform	ND	ug/M3	0.98		1	09/09/21	09/09/21 22:41	1014
Chloromethane	0.78	ug/M3	0.41		1	09/09/21	09/09/21 22:41	1014
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/09/21	09/09/21 22:41	1014
Cyclohexane	ND	ug/M3	0.69		1	09/09/21	09/09/21 22:41	1014
Dibromochloromethane	ND	ug/M3	1.7		1	09/09/21	09/09/21 22:41	1014
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/09/21	09/09/21 22:41	1014
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 22:41	1014
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 22:41	1014
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 22:41	1014
Dichlorodifluoromethane	1.5	ug/M3	0.99		1	09/09/21	09/09/21 22:41	1014
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/09/21 22:41	1014
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/09/21 22:41	1014
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 22:41	1014
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 22:41	1014
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 22:41	1014
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/09/21	09/09/21 22:41	1014
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/09/21 22:41	1014
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/09/21 22:41	1014
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/09/21	09/09/21 22:41	1014
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/09/21	09/09/21 22:41	1014
Ethyl Acetate	ND	ug/M3	0.72		1	09/09/21	09/09/21 22:41	1014
Ethylbenzene	ND	ug/M3	0.43		1	09/09/21	09/09/21 22:41	1014
4-Ethyltoluene	ND	ug/M3	0.98		1	09/09/21	09/09/21 22:41	1014

Certificate of Analysis

Project Name: ACPS IAQ Testing
 PSS Project No.: 21090907

Sample ID: MV - Outside **Date/Time Sampled: 09/08/2021 19:50** **PSS Sample ID: 21090907-010**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	0.86	ug/M3	0.82		1	09/09/21	09/09/21 22:41	1014
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/09/21	09/09/21 22:41	1014
n-Hexane	ND	ug/M3	14		1	09/09/21	09/09/21 22:41	1014
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/09/21	09/09/21 22:41	1014
Isopropylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 22:41	1014
Methylene Chloride	ND	ug/M3	14		1	09/09/21	09/09/21 22:41	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/09/21	09/09/21 22:41	1014
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/09/21	09/09/21 22:41	1014
Naphthalene	ND	ug/M3	0.52		1	09/09/21	09/09/21 22:41	1014
Propylene	ND	ug/M3	1.7		1	09/09/21	09/09/21 22:41	1014
n-Propylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 22:41	1014
Styrene	ND	ug/M3	4.3		1	09/09/21	09/09/21 22:41	1014
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/09/21	09/09/21 22:41	1014
Tetrachloroethene	ND	ug/M3	1.4		1	09/09/21	09/09/21 22:41	1014
Tetrahydrofuran	ND	ug/M3	0.59		1	09/09/21	09/09/21 22:41	1014
Toluene	1.3	ug/M3	0.38		1	09/09/21	09/09/21 22:41	1014
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/09/21	09/09/21 22:41	1014
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 22:41	1014
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 22:41	1014
Trichloroethene	ND	ug/M3	1.1		1	09/09/21	09/09/21 22:41	1014
Trichlorofluoromethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 22:41	1014
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/09/21	09/09/21 22:41	1014
1,2,4-Trimethylbenzene	1.0	ug/M3	0.98		1	09/09/21	09/09/21 22:41	1014
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 22:41	1014
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/09/21	09/09/21 22:41	1014
Vinyl acetate	ND	ug/M3	1.8		1	09/09/21	09/09/21 22:41	1014
Bromoethene	ND	ug/M3	0.87		1	09/09/21	09/09/21 22:41	1014
Vinyl chloride	ND	ug/M3	0.51		1	09/09/21	09/09/21 22:41	1014
m&p-Xylene	ND	ug/M3	0.87		1	09/09/21	09/09/21 22:41	1014
o-Xylene	ND	ug/M3	0.43		1	09/09/21	09/09/21 22:41	1014

Surrogate(s)	Recovery	Limits			
4-Bromofluorobenzene	103 %	87-120	1	09/09/21	09/09/21 22:41 1014

Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21090907

Sample ID: MV - 220 **Date/Time Sampled: 09/08/2021 19:52** **PSS Sample ID: 21090907-011**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	25	ug/M3	9.5		1	09/09/21	09/09/21 23:34	1014
Benzene	0.38	ug/M3	0.32		1	09/09/21	09/09/21 23:34	1014
Benzyl Chloride	ND	ug/M3	1.0		1	09/09/21	09/09/21 23:34	1014
Bromodichloromethane	ND	ug/M3	1.3		1	09/09/21	09/09/21 23:34	1014
Bromoform	ND	ug/M3	2.1		1	09/09/21	09/09/21 23:34	1014
Bromomethane	ND	ug/M3	0.78		1	09/09/21	09/09/21 23:34	1014
1,3-Butadiene	ND	ug/M3	0.44		1	09/09/21	09/09/21 23:34	1014
2-Butanone (MEK)	2.2	ug/M3	1.5		1	09/09/21	09/09/21 23:34	1014
Carbon Disulfide	ND	ug/M3	12		1	09/09/21	09/09/21 23:34	1014
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/09/21	09/09/21 23:34	1014
Chlorobenzene	ND	ug/M3	0.92		1	09/09/21	09/09/21 23:34	1014
Chloroethane	ND	ug/M3	0.53		1	09/09/21	09/09/21 23:34	1014
Chloroform	1.0	ug/M3	0.98		1	09/09/21	09/09/21 23:34	1014
Chloromethane	1.0	ug/M3	0.41		1	09/09/21	09/09/21 23:34	1014
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/09/21	09/09/21 23:34	1014
Cyclohexane	ND	ug/M3	0.69		1	09/09/21	09/09/21 23:34	1014
Dibromochloromethane	ND	ug/M3	1.7		1	09/09/21	09/09/21 23:34	1014
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/09/21	09/09/21 23:34	1014
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 23:34	1014
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 23:34	1014
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/09/21 23:34	1014
Dichlorodifluoromethane	1.6	ug/M3	0.99		1	09/09/21	09/09/21 23:34	1014
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/09/21 23:34	1014
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/09/21 23:34	1014
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 23:34	1014
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 23:34	1014
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/09/21 23:34	1014
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/09/21	09/09/21 23:34	1014
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/09/21 23:34	1014
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/09/21 23:34	1014
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/09/21	09/09/21 23:34	1014
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/09/21	09/09/21 23:34	1014
Ethyl Acetate	ND	ug/M3	0.72		1	09/09/21	09/09/21 23:34	1014
Ethylbenzene	ND	ug/M3	0.43		1	09/09/21	09/09/21 23:34	1014
4-Ethyltoluene	ND	ug/M3	0.98		1	09/09/21	09/09/21 23:34	1014

Certificate of Analysis

Project Name: ACPS IAQ Testing
 PSS Project No.: 21090907

Sample ID: MV - 220 **Date/Time Sampled: 09/08/2021 19:52** **PSS Sample ID: 21090907-011**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82		1	09/09/21	09/09/21 23:34	1014
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/09/21	09/09/21 23:34	1014
n-Hexane	ND	ug/M3	14		1	09/09/21	09/09/21 23:34	1014
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/09/21	09/09/21 23:34	1014
Isopropylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 23:34	1014
Methylene Chloride	ND	ug/M3	14		1	09/09/21	09/09/21 23:34	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/09/21	09/09/21 23:34	1014
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/09/21	09/09/21 23:34	1014
Naphthalene	6.9	ug/M3	0.52		1	09/09/21	09/09/21 23:34	1014
Propylene	ND	ug/M3	1.7		1	09/09/21	09/09/21 23:34	1014
n-Propylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 23:34	1014
Styrene	ND	ug/M3	4.3		1	09/09/21	09/09/21 23:34	1014
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/09/21	09/09/21 23:34	1014
Tetrachloroethene	ND	ug/M3	1.4		1	09/09/21	09/09/21 23:34	1014
Tetrahydrofuran	ND	ug/M3	0.59		1	09/09/21	09/09/21 23:34	1014
Toluene	2.5	ug/M3	0.38		1	09/09/21	09/09/21 23:34	1014
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/09/21	09/09/21 23:34	1014
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 23:34	1014
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 23:34	1014
Trichloroethene	ND	ug/M3	1.1		1	09/09/21	09/09/21 23:34	1014
Trichlorofluoromethane	ND	ug/M3	1.1		1	09/09/21	09/09/21 23:34	1014
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/09/21	09/09/21 23:34	1014
1,2,4-Trimethylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 23:34	1014
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/09/21	09/09/21 23:34	1014
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/09/21	09/09/21 23:34	1014
Vinyl acetate	ND	ug/M3	1.8		1	09/09/21	09/09/21 23:34	1014
Bromoethene	ND	ug/M3	0.87		1	09/09/21	09/09/21 23:34	1014
Vinyl chloride	ND	ug/M3	0.51		1	09/09/21	09/09/21 23:34	1014
m&p-Xylene	0.87	ug/M3	0.87		1	09/09/21	09/09/21 23:34	1014
o-Xylene	ND	ug/M3	0.43		1	09/09/21	09/09/21 23:34	1014

Surrogate(s)	Recovery	Limits
4-Bromofluorobenzene	103 %	87-120

Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21090907

Sample ID: MV - 228 **Date/Time Sampled: 09/08/2021 19:54** **PSS Sample ID: 21090907-012**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	28	ug/M3	9.5		1	09/09/21	09/10/21 00:28	1014
Benzene	0.38	ug/M3	0.32		1	09/09/21	09/10/21 00:28	1014
Benzyl Chloride	ND	ug/M3	1.0		1	09/09/21	09/10/21 00:28	1014
Bromodichloromethane	ND	ug/M3	1.3		1	09/09/21	09/10/21 00:28	1014
Bromoform	ND	ug/M3	2.1		1	09/09/21	09/10/21 00:28	1014
Bromomethane	ND	ug/M3	0.78		1	09/09/21	09/10/21 00:28	1014
1,3-Butadiene	ND	ug/M3	0.44		1	09/09/21	09/10/21 00:28	1014
2-Butanone (MEK)	2.6	ug/M3	1.5		1	09/09/21	09/10/21 00:28	1014
Carbon Disulfide	ND	ug/M3	12		1	09/09/21	09/10/21 00:28	1014
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/09/21	09/10/21 00:28	1014
Chlorobenzene	ND	ug/M3	0.92		1	09/09/21	09/10/21 00:28	1014
Chloroethane	ND	ug/M3	0.53		1	09/09/21	09/10/21 00:28	1014
Chloroform	1.8	ug/M3	0.98		1	09/09/21	09/10/21 00:28	1014
Chloromethane	1.1	ug/M3	0.41		1	09/09/21	09/10/21 00:28	1014
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/09/21	09/10/21 00:28	1014
Cyclohexane	ND	ug/M3	0.69		1	09/09/21	09/10/21 00:28	1014
Dibromochloromethane	ND	ug/M3	1.7		1	09/09/21	09/10/21 00:28	1014
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/09/21	09/10/21 00:28	1014
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/10/21 00:28	1014
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/10/21 00:28	1014
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/10/21 00:28	1014
Dichlorodifluoromethane	1.6	ug/M3	0.99		1	09/09/21	09/10/21 00:28	1014
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/10/21 00:28	1014
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/10/21 00:28	1014
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/10/21 00:28	1014
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/10/21 00:28	1014
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/10/21 00:28	1014
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/09/21	09/10/21 00:28	1014
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/10/21 00:28	1014
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/10/21 00:28	1014
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/09/21	09/10/21 00:28	1014
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/09/21	09/10/21 00:28	1014
Ethyl Acetate	ND	ug/M3	0.72		1	09/09/21	09/10/21 00:28	1014
Ethylbenzene	ND	ug/M3	0.43		1	09/09/21	09/10/21 00:28	1014
4-Ethyltoluene	ND	ug/M3	0.98		1	09/09/21	09/10/21 00:28	1014

Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21090907

Sample ID: MV - 228 **Date/Time Sampled: 09/08/2021 19:54** **PSS Sample ID: 21090907-012**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82		1	09/09/21	09/10/21 00:28	1014
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/09/21	09/10/21 00:28	1014
n-Hexane	ND	ug/M3	14		1	09/09/21	09/10/21 00:28	1014
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/09/21	09/10/21 00:28	1014
Isopropylbenzene	ND	ug/M3	0.98		1	09/09/21	09/10/21 00:28	1014
Methylene Chloride	ND	ug/M3	14		1	09/09/21	09/10/21 00:28	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/09/21	09/10/21 00:28	1014
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/09/21	09/10/21 00:28	1014
Naphthalene	1.1	ug/M3	0.52		1	09/09/21	09/10/21 00:28	1014
Propylene	ND	ug/M3	1.7		1	09/09/21	09/10/21 00:28	1014
n-Propylbenzene	ND	ug/M3	0.98		1	09/09/21	09/10/21 00:28	1014
Styrene	ND	ug/M3	4.3		1	09/09/21	09/10/21 00:28	1014
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/09/21	09/10/21 00:28	1014
Tetrachloroethene	ND	ug/M3	1.4		1	09/09/21	09/10/21 00:28	1014
Tetrahydrofuran	ND	ug/M3	0.59		1	09/09/21	09/10/21 00:28	1014
Toluene	2.0	ug/M3	0.38		1	09/09/21	09/10/21 00:28	1014
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/09/21	09/10/21 00:28	1014
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/10/21 00:28	1014
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/10/21 00:28	1014
Trichloroethene	ND	ug/M3	1.1		1	09/09/21	09/10/21 00:28	1014
Trichlorofluoromethane	ND	ug/M3	1.1		1	09/09/21	09/10/21 00:28	1014
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/09/21	09/10/21 00:28	1014
1,2,4-Trimethylbenzene	ND	ug/M3	0.98		1	09/09/21	09/10/21 00:28	1014
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/09/21	09/10/21 00:28	1014
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/09/21	09/10/21 00:28	1014
Vinyl acetate	ND	ug/M3	1.8		1	09/09/21	09/10/21 00:28	1014
Bromoethene	ND	ug/M3	0.87		1	09/09/21	09/10/21 00:28	1014
Vinyl chloride	ND	ug/M3	0.51		1	09/09/21	09/10/21 00:28	1014
m&p-Xylene	ND	ug/M3	0.87		1	09/09/21	09/10/21 00:28	1014
o-Xylene	ND	ug/M3	0.43		1	09/09/21	09/10/21 00:28	1014

Surrogate(s)	Recovery	Limits				
4-Bromofluorobenzene	105 %	87-120	1	09/09/21	09/10/21 00:28	1014

Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21090907

Sample ID: MV - 234 **Date/Time Sampled: 09/08/2021 19:57** **PSS Sample ID: 21090907-013**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	30	ug/M3	9.5		1	09/09/21	09/10/21 01:22	1014
Benzene	0.38	ug/M3	0.32		1	09/09/21	09/10/21 01:22	1014
Benzyl Chloride	ND	ug/M3	1.0		1	09/09/21	09/10/21 01:22	1014
Bromodichloromethane	ND	ug/M3	1.3		1	09/09/21	09/10/21 01:22	1014
Bromoform	ND	ug/M3	2.1		1	09/09/21	09/10/21 01:22	1014
Bromomethane	ND	ug/M3	0.78		1	09/09/21	09/10/21 01:22	1014
1,3-Butadiene	ND	ug/M3	0.44		1	09/09/21	09/10/21 01:22	1014
2-Butanone (MEK)	2.2	ug/M3	1.5		1	09/09/21	09/10/21 01:22	1014
Carbon Disulfide	ND	ug/M3	12		1	09/09/21	09/10/21 01:22	1014
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/09/21	09/10/21 01:22	1014
Chlorobenzene	ND	ug/M3	0.92		1	09/09/21	09/10/21 01:22	1014
Chloroethane	ND	ug/M3	0.53		1	09/09/21	09/10/21 01:22	1014
Chloroform	ND	ug/M3	0.98		1	09/09/21	09/10/21 01:22	1014
Chloromethane	1.0	ug/M3	0.41		1	09/09/21	09/10/21 01:22	1014
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/09/21	09/10/21 01:22	1014
Cyclohexane	ND	ug/M3	0.69		1	09/09/21	09/10/21 01:22	1014
Dibromochloromethane	ND	ug/M3	1.7		1	09/09/21	09/10/21 01:22	1014
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/09/21	09/10/21 01:22	1014
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/10/21 01:22	1014
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/10/21 01:22	1014
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/10/21 01:22	1014
Dichlorodifluoromethane	1.5	ug/M3	0.99		1	09/09/21	09/10/21 01:22	1014
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/10/21 01:22	1014
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/10/21 01:22	1014
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/10/21 01:22	1014
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/10/21 01:22	1014
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/10/21 01:22	1014
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/09/21	09/10/21 01:22	1014
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/10/21 01:22	1014
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/10/21 01:22	1014
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/09/21	09/10/21 01:22	1014
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/09/21	09/10/21 01:22	1014
Ethyl Acetate	ND	ug/M3	0.72		1	09/09/21	09/10/21 01:22	1014
Ethylbenzene	ND	ug/M3	0.43		1	09/09/21	09/10/21 01:22	1014
4-Ethyltoluene	ND	ug/M3	0.98		1	09/09/21	09/10/21 01:22	1014

Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21090907

Sample ID: MV - 234 **Date/Time Sampled: 09/08/2021 19:57** **PSS Sample ID: 21090907-013**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82		1	09/09/21	09/10/21 01:22	1014
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/09/21	09/10/21 01:22	1014
n-Hexane	ND	ug/M3	14		1	09/09/21	09/10/21 01:22	1014
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/09/21	09/10/21 01:22	1014
Isopropylbenzene	ND	ug/M3	0.98		1	09/09/21	09/10/21 01:22	1014
Methylene Chloride	ND	ug/M3	14		1	09/09/21	09/10/21 01:22	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/09/21	09/10/21 01:22	1014
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/09/21	09/10/21 01:22	1014
Naphthalene	0.63	ug/M3	0.52		1	09/09/21	09/10/21 01:22	1014
Propylene	ND	ug/M3	1.7		1	09/09/21	09/10/21 01:22	1014
n-Propylbenzene	ND	ug/M3	0.98		1	09/09/21	09/10/21 01:22	1014
Styrene	ND	ug/M3	4.3		1	09/09/21	09/10/21 01:22	1014
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/09/21	09/10/21 01:22	1014
Tetrachloroethene	ND	ug/M3	1.4		1	09/09/21	09/10/21 01:22	1014
Tetrahydrofuran	ND	ug/M3	0.59		1	09/09/21	09/10/21 01:22	1014
Toluene	1.8	ug/M3	0.38		1	09/09/21	09/10/21 01:22	1014
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/09/21	09/10/21 01:22	1014
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/10/21 01:22	1014
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/10/21 01:22	1014
Trichloroethene	ND	ug/M3	1.1		1	09/09/21	09/10/21 01:22	1014
Trichlorofluoromethane	ND	ug/M3	1.1		1	09/09/21	09/10/21 01:22	1014
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/09/21	09/10/21 01:22	1014
1,2,4-Trimethylbenzene	ND	ug/M3	0.98		1	09/09/21	09/10/21 01:22	1014
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/09/21	09/10/21 01:22	1014
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/09/21	09/10/21 01:22	1014
Vinyl acetate	ND	ug/M3	1.8		1	09/09/21	09/10/21 01:22	1014
Bromoethene	ND	ug/M3	0.87		1	09/09/21	09/10/21 01:22	1014
Vinyl chloride	ND	ug/M3	0.51		1	09/09/21	09/10/21 01:22	1014
m&p-Xylene	ND	ug/M3	0.87		1	09/09/21	09/10/21 01:22	1014
o-Xylene	ND	ug/M3	0.43		1	09/09/21	09/10/21 01:22	1014

Surrogate(s)	Recovery	Limits
4-Bromofluorobenzene	104 %	87-120

Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21090907

Sample ID: MV - 323 **Date/Time Sampled: 09/08/2021 20:00** **PSS Sample ID: 21090907-014**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	29	ug/M3	9.5		1	09/09/21	09/10/21 02:15	1014
Benzene	0.42	ug/M3	0.32		1	09/09/21	09/10/21 02:15	1014
Benzyl Chloride	ND	ug/M3	1.0		1	09/09/21	09/10/21 02:15	1014
Bromodichloromethane	ND	ug/M3	1.3		1	09/09/21	09/10/21 02:15	1014
Bromoform	ND	ug/M3	2.1		1	09/09/21	09/10/21 02:15	1014
Bromomethane	ND	ug/M3	0.78		1	09/09/21	09/10/21 02:15	1014
1,3-Butadiene	ND	ug/M3	0.44		1	09/09/21	09/10/21 02:15	1014
2-Butanone (MEK)	4.2	ug/M3	1.5		1	09/09/21	09/10/21 02:15	1014
Carbon Disulfide	ND	ug/M3	12		1	09/09/21	09/10/21 02:15	1014
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/09/21	09/10/21 02:15	1014
Chlorobenzene	ND	ug/M3	0.92		1	09/09/21	09/10/21 02:15	1014
Chloroethane	ND	ug/M3	0.53		1	09/09/21	09/10/21 02:15	1014
Chloroform	1.0	ug/M3	0.98		1	09/09/21	09/10/21 02:15	1014
Chloromethane	1.3	ug/M3	0.41		1	09/09/21	09/10/21 02:15	1014
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/09/21	09/10/21 02:15	1014
Cyclohexane	ND	ug/M3	0.69		1	09/09/21	09/10/21 02:15	1014
Dibromochloromethane	ND	ug/M3	1.7		1	09/09/21	09/10/21 02:15	1014
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/09/21	09/10/21 02:15	1014
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/10/21 02:15	1014
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/10/21 02:15	1014
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/10/21 02:15	1014
Dichlorodifluoromethane	1.7	ug/M3	0.99		1	09/09/21	09/10/21 02:15	1014
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/10/21 02:15	1014
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/10/21 02:15	1014
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/10/21 02:15	1014
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/10/21 02:15	1014
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/10/21 02:15	1014
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/09/21	09/10/21 02:15	1014
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/10/21 02:15	1014
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/10/21 02:15	1014
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/09/21	09/10/21 02:15	1014
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/09/21	09/10/21 02:15	1014
Ethyl Acetate	ND	ug/M3	0.72		1	09/09/21	09/10/21 02:15	1014
Ethylbenzene	ND	ug/M3	0.43		1	09/09/21	09/10/21 02:15	1014
4-Ethyltoluene	ND	ug/M3	0.98		1	09/09/21	09/10/21 02:15	1014

Certificate of Analysis

Project Name: ACPS IAQ Testing
 PSS Project No.: 21090907

Sample ID: MV - 323 **Date/Time Sampled: 09/08/2021 20:00** **PSS Sample ID: 21090907-014**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82		1	09/09/21	09/10/21 02:15	1014
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/09/21	09/10/21 02:15	1014
n-Hexane	ND	ug/M3	14		1	09/09/21	09/10/21 02:15	1014
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/09/21	09/10/21 02:15	1014
Isopropylbenzene	ND	ug/M3	0.98		1	09/09/21	09/10/21 02:15	1014
Methylene Chloride	ND	ug/M3	14		1	09/09/21	09/10/21 02:15	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/09/21	09/10/21 02:15	1014
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/09/21	09/10/21 02:15	1014
Naphthalene	0.84	ug/M3	0.52		1	09/09/21	09/10/21 02:15	1014
Propylene	ND	ug/M3	1.7		1	09/09/21	09/10/21 02:15	1014
n-Propylbenzene	ND	ug/M3	0.98		1	09/09/21	09/10/21 02:15	1014
Styrene	ND	ug/M3	4.3		1	09/09/21	09/10/21 02:15	1014
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/09/21	09/10/21 02:15	1014
Tetrachloroethene	3.7	ug/M3	1.4		1	09/09/21	09/10/21 02:15	1014
Tetrahydrofuran	ND	ug/M3	0.59		1	09/09/21	09/10/21 02:15	1014
Toluene	2.8	ug/M3	0.38		1	09/09/21	09/10/21 02:15	1014
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/09/21	09/10/21 02:15	1014
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/10/21 02:15	1014
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/10/21 02:15	1014
Trichloroethene	ND	ug/M3	1.1		1	09/09/21	09/10/21 02:15	1014
Trichlorofluoromethane	ND	ug/M3	1.1		1	09/09/21	09/10/21 02:15	1014
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/09/21	09/10/21 02:15	1014
1,2,4-Trimethylbenzene	1.5	ug/M3	0.98		1	09/09/21	09/10/21 02:15	1014
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/09/21	09/10/21 02:15	1014
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/09/21	09/10/21 02:15	1014
Vinyl acetate	ND	ug/M3	1.8		1	09/09/21	09/10/21 02:15	1014
Bromoethene	ND	ug/M3	0.87		1	09/09/21	09/10/21 02:15	1014
Vinyl chloride	ND	ug/M3	0.51		1	09/09/21	09/10/21 02:15	1014
m&p-Xylene	2.0	ug/M3	0.87		1	09/09/21	09/10/21 02:15	1014
o-Xylene	0.87	ug/M3	0.43		1	09/09/21	09/10/21 02:15	1014

Surrogate(s)	Recovery	Limits
4-Bromofluorobenzene	108 %	87-120

Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21090907

Sample ID: MV - 318 **Date/Time Sampled: 09/08/2021 20:01** **PSS Sample ID: 21090907-015**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	34	ug/M3	9.5		1	09/09/21	09/10/21 03:09	1014
Benzene	0.54	ug/M3	0.32		1	09/09/21	09/10/21 03:09	1014
Benzyl Chloride	ND	ug/M3	1.0		1	09/09/21	09/10/21 03:09	1014
Bromodichloromethane	ND	ug/M3	1.3		1	09/09/21	09/10/21 03:09	1014
Bromoform	ND	ug/M3	2.1		1	09/09/21	09/10/21 03:09	1014
Bromomethane	ND	ug/M3	0.78		1	09/09/21	09/10/21 03:09	1014
1,3-Butadiene	ND	ug/M3	0.44		1	09/09/21	09/10/21 03:09	1014
2-Butanone (MEK)	4.8	ug/M3	1.5		1	09/09/21	09/10/21 03:09	1014
Carbon Disulfide	ND	ug/M3	12		1	09/09/21	09/10/21 03:09	1014
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/09/21	09/10/21 03:09	1014
Chlorobenzene	ND	ug/M3	0.92		1	09/09/21	09/10/21 03:09	1014
Chloroethane	ND	ug/M3	0.53		1	09/09/21	09/10/21 03:09	1014
Chloroform	ND	ug/M3	0.98		1	09/09/21	09/10/21 03:09	1014
Chloromethane	1.1	ug/M3	0.41		1	09/09/21	09/10/21 03:09	1014
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/09/21	09/10/21 03:09	1014
Cyclohexane	ND	ug/M3	0.69		1	09/09/21	09/10/21 03:09	1014
Dibromochloromethane	ND	ug/M3	1.7		1	09/09/21	09/10/21 03:09	1014
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/09/21	09/10/21 03:09	1014
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/10/21 03:09	1014
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/10/21 03:09	1014
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/09/21	09/10/21 03:09	1014
Dichlorodifluoromethane	1.3	ug/M3	0.99		1	09/09/21	09/10/21 03:09	1014
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/10/21 03:09	1014
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/09/21	09/10/21 03:09	1014
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/10/21 03:09	1014
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/10/21 03:09	1014
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/09/21	09/10/21 03:09	1014
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/09/21	09/10/21 03:09	1014
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/10/21 03:09	1014
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/09/21	09/10/21 03:09	1014
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/09/21	09/10/21 03:09	1014
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/09/21	09/10/21 03:09	1014
Ethyl Acetate	ND	ug/M3	0.72		1	09/09/21	09/10/21 03:09	1014
Ethylbenzene	ND	ug/M3	0.43		1	09/09/21	09/10/21 03:09	1014
4-Ethyltoluene	ND	ug/M3	0.98		1	09/09/21	09/10/21 03:09	1014

Certificate of Analysis

Project Name: ACPS IAQ Testing
 PSS Project No.: 21090907

Sample ID: MV - 318 **Date/Time Sampled: 09/08/2021 20:01** **PSS Sample ID: 21090907-015**
Matrix: AIR **Date/Time Received: 09/09/2021 12:30**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187461 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82		1	09/09/21	09/10/21 03:09	1014
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/09/21	09/10/21 03:09	1014
n-Hexane	ND	ug/M3	14		1	09/09/21	09/10/21 03:09	1014
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/09/21	09/10/21 03:09	1014
Isopropylbenzene	ND	ug/M3	0.98		1	09/09/21	09/10/21 03:09	1014
Methylene Chloride	ND	ug/M3	14		1	09/09/21	09/10/21 03:09	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/09/21	09/10/21 03:09	1014
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/09/21	09/10/21 03:09	1014
Naphthalene	ND	ug/M3	0.52		1	09/09/21	09/10/21 03:09	1014
Propylene	ND	ug/M3	1.7		1	09/09/21	09/10/21 03:09	1014
n-Propylbenzene	ND	ug/M3	0.98		1	09/09/21	09/10/21 03:09	1014
Styrene	ND	ug/M3	4.3		1	09/09/21	09/10/21 03:09	1014
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/09/21	09/10/21 03:09	1014
Tetrachloroethene	ND	ug/M3	1.4		1	09/09/21	09/10/21 03:09	1014
Tetrahydrofuran	ND	ug/M3	0.59		1	09/09/21	09/10/21 03:09	1014
Toluene	1.7	ug/M3	0.38		1	09/09/21	09/10/21 03:09	1014
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/09/21	09/10/21 03:09	1014
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/10/21 03:09	1014
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/09/21	09/10/21 03:09	1014
Trichloroethene	ND	ug/M3	1.1		1	09/09/21	09/10/21 03:09	1014
Trichlorofluoromethane	ND	ug/M3	1.1		1	09/09/21	09/10/21 03:09	1014
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/09/21	09/10/21 03:09	1014
1,2,4-Trimethylbenzene	ND	ug/M3	0.98		1	09/09/21	09/10/21 03:09	1014
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/09/21	09/10/21 03:09	1014
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/09/21	09/10/21 03:09	1014
Vinyl acetate	ND	ug/M3	1.8		1	09/09/21	09/10/21 03:09	1014
Bromoethene	ND	ug/M3	0.87		1	09/09/21	09/10/21 03:09	1014
Vinyl chloride	ND	ug/M3	0.51		1	09/09/21	09/10/21 03:09	1014
m&p-Xylene	1.4	ug/M3	0.87		1	09/09/21	09/10/21 03:09	1014
o-Xylene	0.74	ug/M3	0.43		1	09/09/21	09/10/21 03:09	1014

Surrogate(s)	Recovery	Limits
4-Bromofluorobenzene	105 %	87-120

Case Narrative

Project Name: ACPS IAQ Testing

PSS Project No.: 21090907

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

Soil gas/indoor air not indicated on COC; samples are indoor air.

Analytical:

VOCs in Air by GC/MS

Batch: 187461

Method exceedance: Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) exceedances identified; see QC summary.

Batch: 187518

Several compounds in the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) exceed laboratory control limits but are within TO-15 method control limits of 70-130%; see QC summary.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

EPA TO-15: 1,2-Dichlorotetrafluoroethane, Chloroethane, Dibromochloromethane

Lab Chronology

Project Name: ACPS IAQ Testing
 PSS Project No.: 21090907

Method	Client Sample ID	Analysis Type	PSS Sample ID	Mtx	Prep Batch	Analytical Batch	Prepared	Analyzed
EPA TO-15	MV - 104 Class	Initial	21090907-002	A	87611	187461	09/09/2021 07:34	09/09/2021 15:29
	MV - Library	Initial	21090907-003	A	87611	187461	09/09/2021 07:34	09/09/2021 16:23
	MV - Auditorium	Initial	21090907-004	A	87611	187461	09/09/2021 07:34	09/09/2021 17:17
	MV - 113 Class	Initial	21090907-005	A	87611	187461	09/09/2021 07:34	09/09/2021 18:11
	MV - 119 Class	Initial	21090907-006	A	87611	187461	09/09/2021 07:34	09/09/2021 19:05
	MV - Cafeteria	Initial	21090907-007	A	87611	187461	09/09/2021 07:34	09/09/2021 19:59
	MV - 123 Class	Initial	21090907-008	A	87611	187461	09/09/2021 07:34	09/09/2021 20:53
	MV - Gym	Initial	21090907-009	A	87611	187461	09/09/2021 07:34	09/09/2021 21:47
	MV - Outside	Initial	21090907-010	A	87611	187461	09/09/2021 07:34	09/09/2021 22:41
	MV - 220	Initial	21090907-011	A	87611	187461	09/09/2021 07:34	09/09/2021 23:34
	MV - 228	Initial	21090907-012	A	87611	187461	09/09/2021 07:34	09/10/2021 00:28
	MV - 234	Initial	21090907-013	A	87611	187461	09/09/2021 07:34	09/10/2021 01:22
	MV - 323	Initial	21090907-014	A	87611	187461	09/09/2021 07:34	09/10/2021 02:15
	MV - 318	Initial	21090907-015	A	87611	187461	09/09/2021 07:34	09/10/2021 03:09
	87611-1-BKS	BKS	87611-1-BKS	A	87611	187461	09/09/2021 07:34	09/09/2021 09:15
	87611-1-BLK	BLK	87611-1-BLK	A	87611	187461	09/09/2021 07:34	09/09/2021 11:54
	87611-1-BSD	BSD	87611-1-BSD	A	87611	187461	09/09/2021 07:34	09/09/2021 10:06
	MV - Reception	Initial	21090907-001	A	87655	187518	09/10/2021 15:36	09/10/2021 22:33
	87655-1-BKS	BKS	87655-1-BKS	A	87655	187518	09/10/2021 15:36	09/10/2021 18:07
	87655-1-BLK	BLK	87655-1-BLK	A	87655	187518	09/10/2021 15:36	09/10/2021 21:39
	87655-1-BSD	BSD	87655-1-BSD	A	87655	187518	09/10/2021 15:36	09/10/2021 19:51
	MV - 104 Class	Reanalysis	21090907-002	A	87611	187518	09/09/2021 07:34	09/11/2021 00:13
	MV - Library	Reanalysis	21090907-003	A	87611	187518	09/09/2021 07:34	09/10/2021 23:23

Project Name ACPS IAQ Testing

PSS Project No.: 21090907

Analytical Method: EPA TO-15

Seq Number: 187461

Matrix: Air

Prep Method: TO-15P

Date Prep: 09/09/21

MB Sample Id: 87611-1-BLK

LCS Sample Id: 87611-1-BKS

LCSD Sample Id: 87611-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Flag
Acetone	<9.498	11.87	<9.498	0	<9.498	0	69-118	NC	25	ug/M3	L
Benzene	<0.3193	15.97	14.02	88	14.15	89	79-107	1	25	ug/M3	
Benzyl Chloride	<1.035	25.87	30.74	119	30.74	119	78-143	0	25	ug/M3	
Bromodichloromethane	<1.340	33.49	28.33	85	28.47	85	81-111	0	25	ug/M3	
Bromoform	<2.067	51.67	53.94	104	53.32	103	78-133	1	25	ug/M3	
Bromomethane	<0.7764	19.41	17.62	91	18.83	97	76-116	6	25	ug/M3	
1,3-Butadiene	<0.4423	11.06	9.597	87	10.17	92	70-116	6	25	ug/M3	
2-Butanone (MEK)	<1.474	14.74	12.35	84	12.47	85	74-114	1	25	ug/M3	
Carbon Disulfide	<12.45	15.56	14.54	93	14.69	94	79-117	1	25	ug/M3	
Carbon Tetrachloride	<1.258	31.45	26.92	86	27.11	86	81-110	0	25	ug/M3	
Chlorobenzene	<0.9204	23.01	23.06	100	23.15	101	84-119	1	25	ug/M3	
Chloroethane	<0.5276	13.19	11.50	87	12.21	93	72-118	7	25	ug/M3	
Chloroform	<0.9761	24.40	20.79	85	21.04	86	82-108	1	25	ug/M3	
Chloromethane	<0.4128	10.32	8.298	80	8.979	87	64-121	8	25	ug/M3	
Allyl Chloride (3-Chloropropene)	<0.6258	15.64	13.17	84	13.70	88	77-113	5	25	ug/M3	
Cyclohexane	<0.6881	17.20	15.93	93	16.14	94	82-110	1	25	ug/M3	
Dibromochloromethane	<1.703	42.58	37.81	89	38.06	89	82-113	0	25	ug/M3	
1,2-Dibromoethane	<1.536	38.40	35.02	91	35.41	92	86-110	1	25	ug/M3	
1,2-Dichlorobenzene	<1.202	30.05	30.95	103	31.31	104	83-130	1	25	ug/M3	
1,3-Dichlorobenzene	<1.202	30.05	30.83	103	30.83	103	85-128	0	25	ug/M3	
1,4-Dichlorobenzene	<1.202	30.05	30.95	103	31.01	103	82-132	0	25	ug/M3	
Dichlorodifluoromethane	<0.9887	24.72	20.37	82	22.05	89	62-122	8	25	ug/M3	
1,1-Dichloroethane	<0.8092	20.23	17.03	84	17.44	86	79-110	2	25	ug/M3	
1,2-Dichloroethane	<0.8092	20.23	16.47	81	16.63	82	75-112	1	25	ug/M3	
1,1-Dichloroethene	<0.7926	19.82	16.92	85	17.76	90	80-110	6	25	ug/M3	
cis-1,2-Dichloroethene	<0.7926	19.82	17.76	90	17.76	90	84-109	0	25	ug/M3	
trans-1,2-dichloroethene	<0.7926	19.82	17.36	88	17.76	90	81-109	2	25	ug/M3	
1,2-Dichloropropane	<1.848	23.10	19.68	85	19.72	85	81-111	0	25	ug/M3	
cis-1,3-Dichloropropene	<0.9074	22.68	21.23	94	21.41	94	89-109	0	25	ug/M3	
trans-1,3-dichloropropene	<0.9074	22.68	20.91	92	21.32	94	89-114	2	25	ug/M3	
1,2-Dichlorotetrafluoroethane	<1.398	34.94	30.05	86	32.15	92	72-116	7	25	ug/M3	
1,4-Dioxane (P-Dioxane)	<3.602	18.01	17.40	97	17.65	98	70-120	1	25	ug/M3	
Ethyl Acetate	<0.7204	18.01	17.79	99	17.87	99	87-124	0	25	ug/M3	
Ethylbenzene	<0.4340	21.70	23.65	109	23.65	109	87-125	0	25	ug/M3	
4-Ethyltoluene	<0.9827	24.57	26.34	107	26.44	108	87-127	1	25	ug/M3	
n-Heptane	<0.8193	20.48	19.70	96	19.91	97	90-110	1	25	ug/M3	
Hexachlorobutadiene	<2.132	53.30	53.20	100	53.30	100	83-126	0	25	ug/M3	
n-Hexane	<14.09	17.61	16.59	94	16.84	96	84-114	2	25	ug/M3	
2-Hexanone (MBK)	<2.047	20.47	17.98	88	18.30	89	68-133	1	25	ug/M3	
Isopropylbenzene	<0.9827	24.57	24.96	102	25.01	102	88-117	0	25	ug/M3	
Methylene Chloride	<13.89	17.36	<13.89	0	14.10	81	63-130	200	25	ug/M3	L
4-Methyl-2-Pentanone (MIBK)	<2.047	20.47	17.85	87	17.98	88	78-115	1	25	ug/M3	
Methyl-t-Butyl Ether	<0.3604	18.02	17.37	96	17.69	98	86-109	2	25	ug/M3	
Naphthalene	<0.5240	26.20	36.36	139	36.73	140	65-129	1	25	ug/M3	H
Propylene	<1.720	8.602	6.778	79	7.449	87	58-129	10	25	ug/M3	
n-Propylbenzene	<0.9828	24.57	24.82	101	25.55	104	86-121	3	25	ug/M3	
Styrene	<4.258	21.29	24.57	115	24.44	115	86-137	0	25	ug/M3	
1,1,2,2-Tetrachloroethane	<1.373	34.31	33.70	98	33.63	98	88-119	0	25	ug/M3	
Tetrachloroethene	<1.356	33.90	31.53	93	31.66	93	86-107	0	25	ug/M3	
Tetrahydrofuran	<0.5895	14.74	13.24	90	13.32	90	80-117	0	25	ug/M3	
Toluene	<0.3767	18.83	18.12	96	18.31	97	91-106	1	25	ug/M3	

Project Name ACPS IAQ Testing

PSS Project No.: 21090907

Analytical Method: EPA TO-15

Seq Number: 187461

Matrix: Air

Prep Method: TO-15P

Date Prep: 09/09/21

MB Sample Id: 87611-1-BLK

LCS Sample Id: 87611-1-BKS

LCSD Sample Id: 87611-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Flag
1,2,4-Trichlorobenzene	<1.484	37.09	44.81	121	45.25	122	75-126	1	25	ug/M3	
1,1,1-Trichloroethane	<1.091	27.27	23.51	86	23.73	87	81-109	1	25	ug/M3	
1,1,2-Trichloroethane	<1.091	27.27	24.11	88	24.27	89	83-111	1	25	ug/M3	
Trichloroethene	<1.074	26.86	24.17	90	24.34	91	88-106	1	25	ug/M3	
Trichlorofluoromethane	<1.123	28.08	23.03	82	24.32	87	78-109	6	25	ug/M3	
1,1,2-Trichlorotrifluoroethane	<1.532	38.31	33.10	86	34.70	91	84-107	6	25	ug/M3	
1,2,4-Trimethylbenzene	<0.9828	24.57	26.83	109	27.08	110	86-130	1	25	ug/M3	
1,3,5-Trimethylbenzene	<0.9828	24.57	25.80	105	25.85	105	87-122	0	25	ug/M3	
2,2,4-Trimethylpentane	<0.9339	23.35	20.64	88	20.69	89	78-107	1	25	ug/M3	
Vinyl acetate	<1.760	17.60	15.31	87	15.59	89	76-119	2	25	ug/M3	
Bromoethene	<0.8746	21.86	20.16	92	21.65	99	77-117	7	25	ug/M3	
Vinyl chloride	<0.5110	12.78	10.89	85	11.73	92	72-116	8	25	ug/M3	
m&p-Xylene	<0.8681	43.41	46.23	106	46.18	106	88-122	0	25	ug/M3	
o-Xylene	<0.4341	21.70	23.09	106	23.14	107	89-120	1	25	ug/M3	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	LCSD Result	LCSD Flag	Limits	Units
4-Bromofluorobenzene	101		103		104		87-120	%

Project Name ACPS IAQ Testing

PSS Project No.: 21090907

Analytical Method: EPA TO-15

Seq Number: 187518

Matrix: Air

Prep Method: TO-15P

Date Prep: 09/10/21

MB Sample Id: 87655-1-BLK

LCS Sample Id: 87655-1-BKS

LCSD Sample Id: 87655-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Flag
Acetone	<9.498	11.87	<9.498	0	9.569	81	69-118	200	25	ug/M3	LF
Benzene	<0.3193	15.97	13.92	87	14.24	89	79-107	2	25	ug/M3	
Benzyl Chloride	<1.035	25.87	25.51	99	26.19	101	78-143	2	25	ug/M3	
Bromodichloromethane	<1.340	33.49	28.13	84	28.93	86	81-111	2	25	ug/M3	
Bromoform	<2.067	51.67	50.02	97	50.74	98	78-133	1	25	ug/M3	
Bromomethane	<0.7764	19.41	19.02	98	19.33	100	76-116	2	25	ug/M3	
1,3-Butadiene	<0.4423	11.06	9.332	84	9.597	87	70-116	4	25	ug/M3	
2-Butanone (MEK)	<1.474	14.74	11.97	81	12.38	84	74-114	4	25	ug/M3	
Carbon Disulfide	<12.45	15.56	13.70	88	14.04	90	79-117	2	25	ug/M3	
Carbon Tetrachloride	<1.258	31.45	27.04	86	27.55	88	81-110	2	25	ug/M3	
Chlorobenzene	<0.9204	23.01	21.95	95	22.13	96	84-119	1	25	ug/M3	
Chloroethane	<0.5276	13.19	12.34	94	12.56	95	72-118	1	25	ug/M3	
Chloroform	<0.9761	24.40	21.08	86	21.43	88	82-108	2	25	ug/M3	
Chloromethane	<0.4128	10.32	7.039	68	7.431	72	64-121	6	25	ug/M3	
Allyl Chloride (3-Chloropropene)	<0.6258	15.64	13.08	84	13.77	88	77-113	5	25	ug/M3	
Cyclohexane	<0.6881	17.20	15.72	91	16.10	94	82-110	3	25	ug/M3	
Dibromochloromethane	<1.703	42.58	36.87	87	37.98	89	82-113	2	25	ug/M3	
1,2-Dibromoethane	<1.536	38.40	34.41	90	35.41	92	86-110	2	25	ug/M3	
1,2-Dichlorobenzene	<1.202	30.05	25.30	84	25.90	86	83-130	2	25	ug/M3	
1,3-Dichlorobenzene	<1.202	30.05	25.42	85	26.02	87	85-128	2	25	ug/M3	
1,4-Dichlorobenzene	<1.202	30.05	25.54	85	26.14	87	82-132	2	25	ug/M3	
Dichlorodifluoromethane	<0.9887	24.72	20.42	83	20.71	84	62-122	1	25	ug/M3	
1,1-Dichloroethane	<0.8092	20.23	17.48	86	18.01	89	79-110	3	25	ug/M3	
1,2-Dichloroethane	<0.8092	20.23	17.11	85	17.60	87	75-112	2	25	ug/M3	
1,1-Dichloroethene	<0.7926	19.82	18.15	92	18.63	94	80-110	2	25	ug/M3	
cis-1,2-Dichloroethene	<0.7926	19.82	18.07	91	18.59	94	84-109	3	25	ug/M3	
trans-1,2-dichloroethene	<0.7926	19.82	17.79	90	18.35	93	81-109	3	25	ug/M3	
1,2-Dichloropropane	<1.848	23.10	19.26	83	20.00	87	81-111	5	25	ug/M3	
cis-1,3-Dichloropropene	<0.9074	22.68	21.19	93	21.82	96	89-109	3	25	ug/M3	
trans-1,3-dichloropropene	<0.9074	22.68	20.96	92	21.46	95	89-114	3	25	ug/M3	
1,2-Dichlorotetrafluoroethane	<1.398	34.94	28.30	81	29.63	85	72-116	5	25	ug/M3	
1,4-Dioxane (P-Dioxane)	<3.602	18.01	17.43	97	17.90	99	70-120	2	25	ug/M3	
Ethyl Acetate	<0.7204	18.01	17.69	98	18.16	101	87-124	3	25	ug/M3	
Ethylbenzene	<0.4340	21.70	22.31	103	22.79	105	87-125	2	25	ug/M3	
4-Ethyltoluene	<0.9827	24.57	23.00	94	23.64	96	87-127	2	25	ug/M3	
n-Heptane	<0.8193	20.48	19.42	95	20.24	99	90-110	4	25	ug/M3	
Hexachlorobutadiene	<2.132	53.30	37.31	70	37.74	71	83-126	1	25	ug/M3	L
n-Hexane	<14.09	17.61	16.63	94	17.12	97	84-114	3	25	ug/M3	
2-Hexanone (MBK)	<2.047	20.47	17.16	84	17.69	86	68-133	2	25	ug/M3	
Isopropylbenzene	<0.9827	24.57	22.50	92	23.09	94	88-117	2	25	ug/M3	
Methylene Chloride	<13.89	17.36	13.89	80	14.27	82	63-130	2	25	ug/M3	
4-Methyl-2-Pentanone (MIBK)	<2.047	20.47	16.99	83	17.69	86	78-115	4	25	ug/M3	
Methyl-t-Butyl Ether	<0.3604	18.02	18.06	100	18.42	102	86-109	2	25	ug/M3	
Naphthalene	<0.5240	26.20	25.88	99	25.67	98	65-129	1	25	ug/M3	
Propylene	<1.720	8.602	5.385	63	6.021	70	58-129	11	25	ug/M3	
n-Propylbenzene	<0.9828	24.57	22.41	91	23.24	95	86-121	4	25	ug/M3	
Styrene	<4.258	21.29	22.31	105	22.91	108	86-137	3	25	ug/M3	
1,1,2,2-Tetrachloroethane	<1.373	34.31	29.65	86	30.54	89	88-119	3	25	ug/M3	L
Tetrachloroethene	<1.356	33.90	29.77	88	30.65	90	86-107	2	25	ug/M3	
Tetrahydrofuran	<0.5895	14.74	12.65	86	13.12	89	80-117	3	25	ug/M3	
Toluene	<0.3767	18.83	17.82	95	18.42	98	91-106	3	25	ug/M3	

Project Name ACPS IAQ Testing
PSS Project No.: 21090907

Analytical Method: EPA TO-15

Seq Number: 187518

MB Sample Id: 87655-1-BLK

Matrix: Air

LCS Sample Id: 87655-1-BKS

Prep Method: TO-15P

Date Prep: 09/10/21

LCSD Sample Id: 87655-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Flag
1,2,4-Trichlorobenzene	<1.484	37.09	31.60	85	31.60	85	75-126	0	25	ug/M3	
1,1,1-Trichloroethane	<1.091	27.27	23.78	87	24.33	89	81-109	2	25	ug/M3	
1,1,2-Trichloroethane	<1.091	27.27	23.67	87	24.11	88	83-111	1	25	ug/M3	
Trichloroethene	<1.074	26.86	23.74	88	24.50	91	88-106	3	25	ug/M3	
Trichlorofluoromethane	<1.123	28.08	24.66	88	25.05	89	78-109	1	25	ug/M3	
1,1,2-Trichlorotrifluoroethane	<1.532	38.31	35.39	92	35.93	94	84-107	2	25	ug/M3	
1,2,4-Trimethylbenzene	<0.9828	24.57	23.10	94	23.78	97	86-130	3	25	ug/M3	
1,3,5-Trimethylbenzene	<0.9828	24.57	22.36	91	23.19	94	87-122	3	25	ug/M3	
2,2,4-Trimethylpentane	<0.9339	23.35	19.85	85	20.73	89	78-107	5	25	ug/M3	
Vinyl acetate	<1.760	17.60	14.75	84	15.28	87	76-119	4	25	ug/M3	
Bromoethene	<0.8746	21.86	22.52	103	22.91	105	77-117	2	25	ug/M3	
Vinyl chloride	<0.5110	12.78	10.53	82	10.99	86	72-116	5	25	ug/M3	
m&p-Xylene	<0.8681	43.41	43.06	99	44.27	102	88-122	3	25	ug/M3	
o-Xylene	<0.4341	21.70	21.01	97	21.53	99	89-120	2	25	ug/M3	
Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	LCSD Result	LCSD Flag	Limits	Units			
4-Bromofluorobenzene	106		101		102		87-120	%			

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria
H= Recovery of BS,BSD or both exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits

Project Name ACPS IAQ Testing

PSS Project No.: 21090907

Analytical Method: EPA TO-15

Seq Number: 187461

Matrix: Air

CCV Sample Id: CCV-01

Analyzed Date: 09/09/21 08:24

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
Acetone	11.87	9.722	82	70-130	ug/M3	
Benzene	15.97	14.57	91	70-130	ug/M3	
Benzyl Chloride	25.87	27.83	108	70-130	ug/M3	
Bromodichloromethane	33.49	28.97	87	70-130	ug/M3	
Bromoform	51.67	53.79	104	70-130	ug/M3	
Bromomethane	19.41	19.07	98	70-130	ug/M3	
1,3-Butadiene	11.06	10.30	93	70-130	ug/M3	
2-Butanone (MEK)	14.74	12.91	88	70-130	ug/M3	
Carbon Disulfide	15.56	19.00	122	70-130	ug/M3	
Carbon Tetrachloride	31.45	26.87	85	70-130	ug/M3	
Chlorobenzene	23.01	23.89	104	70-130	ug/M3	
Chloroethane	13.19	12.31	93	70-130	ug/M3	
Chloroform	24.40	21.65	89	70-130	ug/M3	
Chloromethane	10.32	8.976	87	70-130	ug/M3	
Allyl Chloride (3-Chloropropene)	15.64	13.69	88	70-130	ug/M3	
Cyclohexane	17.20	16.33	95	70-130	ug/M3	
Dibromochloromethane	42.58	37.92	89	70-130	ug/M3	
1,2-Dibromoethane	38.40	35.57	93	70-130	ug/M3	
1,2-Dichlorobenzene	30.05	29.25	97	70-130	ug/M3	
1,3-Dichlorobenzene	30.05	29.57	98	70-130	ug/M3	
1,4-Dichlorobenzene	30.05	29.49	98	70-130	ug/M3	
Dichlorodifluoromethane	24.72	22.61	91	70-130	ug/M3	
1,1-Dichloroethane	20.23	18.01	89	70-130	ug/M3	
1,2-Dichloroethane	20.23	17.04	84	70-130	ug/M3	
1,1-Dichloroethene	19.82	17.91	90	70-130	ug/M3	
cis-1,2-Dichloroethene	19.82	18.38	93	70-130	ug/M3	
trans-1,2-dichloroethene	19.82	18.10	91	70-130	ug/M3	
1,2-Dichloropropane	23.10	20.39	88	70-130	ug/M3	
cis-1,3-Dichloropropene	22.68	21.68	96	70-130	ug/M3	
trans-1,3-dichloropropene	22.68	21.21	94	70-130	ug/M3	
1,2-Dichlorotetrafluoroethane	34.94	32.29	92	70-130	ug/M3	
1,4-Dioxane (P-Dioxane)	18.01	18.61	103	70-130	ug/M3	
Ethyl Acetate	18.01	18.62	103	70-130	ug/M3	
Ethylbenzene	21.70	24.68	114	70-130	ug/M3	
4-Ethyltoluene	24.57	26.43	108	70-130	ug/M3	
n-Heptane	20.48	20.46	100	70-130	ug/M3	
Hexachlorobutadiene	53.30	39.01	73	70-130	ug/M3	
n-Hexane	17.61	17.45	99	70-130	ug/M3	
2-Hexanone (MBK)	20.47	18.69	91	70-130	ug/M3	
Isopropylbenzene	24.57	25.55	104	70-130	ug/M3	
Methylene Chloride	17.36	14.50	84	70-130	ug/M3	
4-Methyl-2-Pentanone (MIBK)	20.47	18.61	91	70-130	ug/M3	
Methyl-t-Butyl Ether	18.02	18.16	101	70-130	ug/M3	
Naphthalene	26.20	21.57	82	70-130	ug/M3	
Propylene	8.602	7.451	87	70-130	ug/M3	
n-Propylbenzene	24.57	25.62	104	70-130	ug/M3	
Styrene	21.29	24.93	117	70-130	ug/M3	
1,1,2,2-Tetrachloroethane	34.31	33.69	98	70-130	ug/M3	
Tetrachloroethene	33.90	32.26	95	70-130	ug/M3	
Tetrahydrofuran	14.74	13.53	92	70-130	ug/M3	
Toluene	18.83	18.64	99	70-130	ug/M3	

Project Name ACPS IAQ Testing
PSS Project No.: 21090907

Analytical Method: EPA TO-15

Seq Number: 187461

Matrix: Air

CCV Sample Id: CCV-01

Analyzed Date: 09/09/21 08:24

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
1,2,4-Trichlorobenzene	37.09	29.49	80	70-130	ug/M3	
1,1,1-Trichloroethane	27.27	24.41	90	70-130	ug/M3	
1,1,2-Trichloroethane	27.27	24.92	91	70-130	ug/M3	
Trichloroethene	26.86	25.46	95	70-130	ug/M3	
Trichlorofluoromethane	28.08	24.65	88	70-130	ug/M3	
1,1,2-Trichlorotrifluoroethane	38.31	35.19	92	70-130	ug/M3	
1,2,4-Trimethylbenzene	24.57	26.54	108	70-130	ug/M3	
1,3,5-Trimethylbenzene	24.57	25.63	104	70-130	ug/M3	
2,2,4-Trimethylpentane	23.35	21.45	92	70-130	ug/M3	
Vinyl acetate	17.60	15.48	88	70-130	ug/M3	
Bromoethene	21.86	21.65	99	70-130	ug/M3	
Vinyl chloride	12.78	11.76	92	70-130	ug/M3	
m&p-Xylene	43.41	47.89	110	70-130	ug/M3	
o-Xylene	21.70	23.78	110	70-130	ug/M3	
Surrogate		CCV Result		Limits	Units	Flag
4-Bromofluorobenzene		80		50-150	%	

Project Name ACPS IAQ Testing

PSS Project No.: 21090907

Analytical Method: EPA TO-15

Seq Number: 187518

Matrix: Air

CCV Sample Id: CCV-01

Analyzed Date: 09/10/21 16:26

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
Acetone	11.87	9.581	81	70-130	ug/M3	
Benzene	15.97	14.17	89	70-130	ug/M3	
Benzyl Chloride	25.87	25.31	98	70-130	ug/M3	
Bromodichloromethane	33.49	28.96	86	70-130	ug/M3	
Bromoform	51.67	51.18	99	70-130	ug/M3	
Bromomethane	19.41	21.66	112	70-130	ug/M3	
1,3-Butadiene	11.06	10.61	96	70-130	ug/M3	
2-Butanone (MEK)	14.74	12.12	82	70-130	ug/M3	
Carbon Disulfide	15.56	14.41	93	70-130	ug/M3	
Carbon Tetrachloride	31.45	27.48	87	70-130	ug/M3	
Chlorobenzene	23.01	22.77	99	70-130	ug/M3	
Chloroethane	13.19	13.80	105	70-130	ug/M3	
Chloroform	24.40	21.50	88	70-130	ug/M3	
Chloromethane	10.32	8.296	80	70-130	ug/M3	
Allyl Chloride (3-Chloropropene)	15.64	13.62	87	70-130	ug/M3	
Cyclohexane	17.20	15.90	92	70-130	ug/M3	
Dibromochloromethane	42.58	37.45	88	70-130	ug/M3	
1,2-Dibromoethane	38.40	34.94	91	70-130	ug/M3	
1,2-Dichlorobenzene	30.05	25.65	85	70-130	ug/M3	
1,3-Dichlorobenzene	30.05	26.27	87	70-130	ug/M3	
1,4-Dichlorobenzene	30.05	26.40	88	70-130	ug/M3	
Dichlorodifluoromethane	24.72	25.57	103	70-130	ug/M3	
1,1-Dichloroethane	20.23	17.94	89	70-130	ug/M3	
1,2-Dichloroethane	20.23	17.59	87	70-130	ug/M3	
1,1-Dichloroethene	19.82	19.47	98	70-130	ug/M3	
cis-1,2-Dichloroethene	19.82	18.41	93	70-130	ug/M3	
trans-1,2-dichloroethene	19.82	18.26	92	70-130	ug/M3	
1,2-Dichloropropane	23.10	19.79	86	70-130	ug/M3	
cis-1,3-Dichloropropene	22.68	21.63	95	70-130	ug/M3	
trans-1,3-dichloropropene	22.68	21.16	93	70-130	ug/M3	
1,2-Dichlorotetrafluoroethane	34.94	33.99	97	70-130	ug/M3	
1,4-Dioxane (P-Dioxane)	18.01	17.93	100	70-130	ug/M3	
Ethyl Acetate	18.01	17.72	98	70-130	ug/M3	
Ethylbenzene	21.70	23.11	106	70-130	ug/M3	
4-Ethyltoluene	24.57	23.82	97	70-130	ug/M3	
n-Heptane	20.48	20.02	98	70-130	ug/M3	
Hexachlorobutadiene	53.30	38.46	72	70-130	ug/M3	
n-Hexane	17.61	16.86	96	70-130	ug/M3	
2-Hexanone (MBK)	20.47	16.87	82	70-130	ug/M3	
Isopropylbenzene	24.57	23.36	95	70-130	ug/M3	
Methylene Chloride	17.36	14.39	83	70-130	ug/M3	
4-Methyl-2-Pentanone (MIBK)	20.47	17.27	84	70-130	ug/M3	
Methyl-t-Butyl Ether	18.02	18.54	103	70-130	ug/M3	
Naphthalene	26.20	24.12	92	70-130	ug/M3	
Propylene	8.602	6.963	81	70-130	ug/M3	
n-Propylbenzene	24.57	22.43	91	70-130	ug/M3	
Styrene	21.29	22.88	107	70-130	ug/M3	
1,1,2,2-Tetrachloroethane	34.31	29.87	87	70-130	ug/M3	
Tetrachloroethene	33.90	30.84	91	70-130	ug/M3	
Tetrahydrofuran	14.74	12.52	85	70-130	ug/M3	
Toluene	18.83	18.20	97	70-130	ug/M3	

Project Name ACPS IAQ Testing

PSS Project No.: 21090907

Analytical Method: EPA TO-15

Seq Number: 187518

Matrix: Air

CCV Sample Id: CCV-01

Analyzed Date: 09/10/21 16:26

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
1,2,4-Trichlorobenzene	37.09	31.96	86	70-130	ug/M3	
1,1,1-Trichloroethane	27.27	24.50	90	70-130	ug/M3	
1,1,2-Trichloroethane	27.27	24.04	88	70-130	ug/M3	
Trichloroethene	26.86	24.75	92	70-130	ug/M3	
Trichlorofluoromethane	28.08	27.40	98	70-130	ug/M3	
1,1,2-Trichlorotrifluoroethane	38.31	37.55	98	70-130	ug/M3	
1,2,4-Trimethylbenzene	24.57	23.67	96	70-130	ug/M3	
1,3,5-Trimethylbenzene	24.57	22.94	93	70-130	ug/M3	
2,2,4-Trimethylpentane	23.35	20.35	87	70-130	ug/M3	
Vinyl acetate	17.60	14.61	83	70-130	ug/M3	
Bromoethene	21.86	25.39	116	70-130	ug/M3	
Vinyl chloride	12.78	11.97	94	70-130	ug/M3	
m&p-Xylene	43.41	44.32	102	70-130	ug/M3	
o-Xylene	21.70	21.62	100	70-130	ug/M3	

Surrogate	CCV Result	Limits	Units	Flag
4-Bromofluorobenzene	82	50-150	%	

Project Name ACPS IAQ Testing

PSS Project No.: 21090907

Analytical Method: EPA TO-15

Seq Number: 185968

Matrix: Air

Parent Sample Id: ICV-01

ICV Sample Id: ICV-01

Analyzed Date: 07/15/21 13:32

Parameter	Spike Amount	ICV Result	ICV %Rec	Limits	Units	Flag
Acetone	11.87	10.66	90	70-130	ug/M3	
Benzene	15.97	15.51	97	70-130	ug/M3	
Benzyl Chloride	25.87	27.08	105	70-130	ug/M3	
Bromodichloromethane	33.49	32.04	96	70-130	ug/M3	
Bromoform	51.67	53.22	103	70-130	ug/M3	
Bromomethane	19.41	19.17	99	70-130	ug/M3	
1,3-Butadiene	11.06	10.68	97	70-130	ug/M3	
2-Butanone (MEK)	14.74	14.29	97	70-130	ug/M3	
Carbon Disulfide	15.56	15.20	98	70-130	ug/M3	
Carbon Tetrachloride	31.45	30.48	97	70-130	ug/M3	
Chlorobenzene	23.01	22.75	99	70-130	ug/M3	
Chloroethane	13.19	12.91	98	70-130	ug/M3	
Chloroform	24.40	23.55	97	70-130	ug/M3	
Chloromethane	10.32	9.584	93	70-130	ug/M3	
Allyl Chloride (3-Chloropropene)	15.64	15.43	99	70-130	ug/M3	
Cyclohexane	17.20	18.31	106	70-130	ug/M3	
Dibromochloromethane	42.58	41.98	99	70-130	ug/M3	
1,2-Dibromoethane	38.40	38.46	100	70-130	ug/M3	
1,2-Dichlorobenzene	30.05	29.90	100	70-130	ug/M3	
1,3-Dichlorobenzene	30.05	30.07	100	70-130	ug/M3	
1,4-Dichlorobenzene	30.05	30.27	101	70-130	ug/M3	
Dichlorodifluoromethane	24.72	23.21	94	70-130	ug/M3	
1,1-Dichloroethane	20.23	19.62	97	70-130	ug/M3	
1,2-Dichloroethane	20.23	19.32	96	70-130	ug/M3	
1,1-Dichloroethene	19.82	19.75	100	70-130	ug/M3	
cis-1,2-Dichloroethene	19.82	20.37	103	70-130	ug/M3	
trans-1,2-dichloroethene	19.82	19.79	100	70-130	ug/M3	
1,2-Dichloropropane	23.10	22.40	97	70-130	ug/M3	
cis-1,3-Dichloropropene	22.68	23.89	105	70-130	ug/M3	
trans-1,3-dichloropropene	22.68	23.53	104	70-130	ug/M3	
1,2-Dichlorotetrafluoroethane	34.94	33.51	96	70-130	ug/M3	
1,4-Dioxane (P-Dioxane)	18.01	19.14	106	70-130	ug/M3	
Ethyl Acetate	18.01	19.17	106	70-130	ug/M3	
Ethylbenzene	21.70	23.79	110	70-130	ug/M3	
4-Ethyltoluene	24.57	26.79	109	70-130	ug/M3	
n-Heptane	20.48	22.37	109	70-130	ug/M3	
Hexachlorobutadiene	53.30	47.13	88	70-130	ug/M3	
n-Hexane	17.61	18.94	108	70-130	ug/M3	
2-Hexanone (MBK)	20.47	21.03	103	70-130	ug/M3	
Isopropylbenzene	24.57	25.34	103	70-130	ug/M3	
Methylene Chloride	17.36	16.17	93	70-130	ug/M3	
4-Methyl-2-Pentanone (MIBK)	20.47	21.14	103	70-130	ug/M3	
Methyl-t-Butyl Ether	18.02	19.55	108	70-130	ug/M3	
Naphthalene	26.20	21.32	81	70-130	ug/M3	
Propylene	8.602	8.112	94	70-130	ug/M3	
n-Propylbenzene	24.57	26.87	109	70-130	ug/M3	
Styrene	21.29	24.28	114	70-130	ug/M3	
1,1,2,2-Tetrachloroethane	34.31	32.86	96	70-130	ug/M3	
Tetrachloroethene	33.90	34.26	101	70-130	ug/M3	
Tetrahydrofuran	14.74	15.47	105	70-130	ug/M3	
Toluene	18.83	20.13	107	70-130	ug/M3	

Project Name ACPS IAQ Testing

PSS Project No.: 21090907

Analytical Method: EPA TO-15

Seq Number: 185968

Matrix: Air

Parent Sample Id: ICV-01

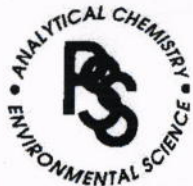
ICV Sample Id: ICV-01

Analyzed Date: 07/15/21 13:32

Parameter	Spike Amount	ICV Result	ICV %Rec	Limits	Units	Flag
1,2,4-Trichlorobenzene	37.09	33.48	90	70-130	ug/M3	
1,1,1-Trichloroethane	27.27	26.75	98	70-130	ug/M3	
1,1,2-Trichloroethane	27.27	26.47	97	70-130	ug/M3	
Trichloroethene	26.86	26.83	100	70-130	ug/M3	
Trichlorofluoromethane	28.08	26.66	95	70-130	ug/M3	
1,1,2-Trichlorotrifluoroethane	38.31	37.18	97	70-130	ug/M3	
1,2,4-Trimethylbenzene	24.57	27.23	111	70-130	ug/M3	
1,3,5-Trimethylbenzene	24.57	26.05	106	70-130	ug/M3	
2,2,4-Trimethylpentane	23.35	23.79	102	70-130	ug/M3	
Vinyl acetate	17.60	18.06	103	70-130	ug/M3	
Bromoethene	21.86	21.66	99	70-130	ug/M3	
Vinyl chloride	12.78	12.23	96	70-130	ug/M3	
m&p-Xylene	43.41	46.74	108	70-130	ug/M3	
o-Xylene	21.70	23.49	108	70-130	ug/M3	

Surrogate	ICV Result	Limits	Units	Flag
4-Bromofluorobenzene	103	50-150	%	

X = Recovery outside of QC Criteria



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM TO-15

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com

email: info@phaseonline.com

1 *CLIENT: Total Environmental Concepts, Inc. *OFFICE LOC.: Lorton						PSS Work Order #: 21090907				PAGE <u>1</u> OF <u>2</u>					
*PROJECT MGR: Karl Ford						3 * Can ID *	Sample Reg. ID *	Canister Pressure * in field ("Hg) Start	Canister Pressure * in field ("Hg) Stop	Incoming Canister Pressure ("Hg) Lab	Soil Gas / Subslab *	Indoor/Ambient Air *	TO-15 Full List	Special List	REMARKS
EMAIL: kford@teci.pro *PHONE NO.: (703) 567-4346															
*PROJECT NAME: ACPS IAQ testing PROJECT NO.: 4920002															
SITE LOCATION: Mt. Vernon School P.O. NO.:															
SAMPLER(S): Channing and Margaret															
2	LAB #	*SAMPLE IDENTIFICATION	*DATE START	*Time Start (24hr clock)	*DATE STOP	*Time Stop (24hr clock)									
	1	MV - Reception	9/8/21	15:21	9/8/21	19:49	4263	10940	29	2	3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2	MV - 104 Class	9/8/21	15:26	9/8/21	19:51	4259	15033	30	2	3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	3	MV - Library	9/8/21	15:29	9/8/21	19:54	4279	15032	30	3	4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	4	MV - Auditorium	9/8/21	15:33	9/8/21	19:56	4276	15035	31	2	3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	5	MV - 113 Class	9/8/21	15:38	9/8/21	19:58	4274	13652	30	4	4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	6	MV - 119 Class	9/8/21	15:42	9/8/21	20:00	3549	15037	31	3	4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	7	MV - Cafeteria	9/8/21	15:46	9/8/21	20:02	4280	15038	31	3	4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	8	MV - 123 Class	9/8/21	15:51	9/8/21	20:04	3544	15034	30	3	3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	9	MV - Gym	9/8/21	16:09	9/8/21	20:07	4250	12318	30	3	2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	10	MV - Outside	9/8/21	15:30	9/8/21	19:50	3944	15036	30	3	3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	Relinquished By: (1) Channing Jackson		Date 9/8/21	Time 20:30	Received By: 		4 *Requested TAT (One TAT per COC) <input checked="" type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input type="checkbox"/> Other				Shipping Carrier: Client				
	Relinquished By: (2) 		Date 9/9/21	Time 12:30	Received By: 		Data Deliverables Required:								
	Relinquished By: (3)		Date	Time	Received By:		Special Instructions:								
	Relinquished By: (4)		Date	Time	Received By:										

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723
 The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM TO-15

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com
email: info@phaseonline.com

1 *CLIENT: Total Environmental Concepts, Inc. *OFFICE LOC.: Lorton						PSS Work Order #: 21090907			PAGE <u>2</u> OF <u>2</u>						
*PROJECT MGR: Karl Ford						3 * 3 Can ID *	Sample Reg. ID *	Canister Pressure * in field ("Hg) Start	Canister Pressure * in field ("Hg) Stop	Incoming Canister Pressure ("Hg) Lab	Soil Gas / Subslab *	Indoor/Ambient Air *	TO-15 Full List	Special List	REMARKS
EMAIL: kford@teci.pro *PHONE NO.: (703) 567-4346															
*PROJECT NAME: ACPS IAQ testing PROJECT NO.: 4920002															
SITE LOCATION: Mt. Vernon School P.O. NO.:															
SAMPLER(S): Channing, Margaret															
LAB #	*SAMPLE IDENTIFICATION	*DATE START	*Time Start (24hr clock)	*DATE STOP	*Time Stop (24hr clock)	Can ID *	Sample Reg. ID *	Canister Pressure * in field ("Hg) Start	Canister Pressure * in field ("Hg) Stop	Incoming Canister Pressure ("Hg) Lab	Soil Gas / Subslab *	Indoor/Ambient Air *	TO-15 Full List	Special List	REMARKS
11	MV - 220	9/8/21	15:34	9/8/21	19:52	4307	12324	30	3	3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12	MV - 228	9/8/21	15:38	9/8/21	19:54	4261	13653	30	3	3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13	MV - 234	9/8/21	15:44	9/8/21	19:57	4277	04981	30	1	3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
14	MV - 323	9/8/21	15:53	9/8/21	20:00	4252	12328	30	4	4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
15	MV - 318	9/8/21	16:00	9/8/21	20:01	4195	05678	29	4	3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Relinquished By: (1) Channing Jackson Date: 9/8/21 Time: 20:30 Received By: <i>[Signature]</i>						4 *Requested TAT (One TAT per COC) <input checked="" type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input type="checkbox"/> Other						Shipping Carrier: <i>Clia</i>			
Relinquished By: (2) <i>[Signature]</i> Date: 9/9/21 Time: 1230 Received By: <i>[Signature]</i>						Data Deliverables Required:									
Relinquished By: (3) Date: Time: Received By:						Special Instructions:									
Relinquished By: (4) Date: Time: Received By:															

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The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED

TO-15 Canister and Flow Controller Check List

Check Out	Check In	(use n/a as necessary)
15	<input checked="" type="checkbox"/>	<input type="checkbox"/> No. Canisters:
	<input checked="" type="checkbox"/>	Pressure Checked (29 – 30" Hg)
	<input checked="" type="checkbox"/>	Top of Micro QT tight
	<input checked="" type="checkbox"/>	Sampling tag/label
15	<input checked="" type="checkbox"/>	<input type="checkbox"/> Stands
15	<input checked="" type="checkbox"/>	<input type="checkbox"/> No. Flow controllers:
	<input type="checkbox"/>	Use COC pressures to evaluate sampling time accuracy
	<input checked="" type="checkbox"/>	<input type="checkbox"/> Leak evaluated
	<input checked="" type="checkbox"/>	Gauge checked / adjusted (29 – 30" Hg)
	<input checked="" type="checkbox"/>	Flow set
	<input checked="" type="checkbox"/>	Purged with N
	<input type="checkbox"/>	*Checked for water if soil gas
	<input type="checkbox"/>	Duplicate T-piece(s)
		Other items in bin:
	<input checked="" type="checkbox"/>	Hard Copy of O-01.05.F01 TO-15 Client Sampling Guide
	<input checked="" type="checkbox"/>	COC Form(s) (+1 extra)
	<input checked="" type="checkbox"/>	Client copy of bottle order
	<input type="checkbox"/>	STOP Notice if split IA/SG order
	<input type="checkbox"/>	Soil Gas? wrench/nuts/ferules Qty _____
	<input type="checkbox"/>	Tubing? purged/capped: ft _____
	<input type="checkbox"/>	Tubing cutter
	<input checked="" type="checkbox"/>	Bin labelled, copy of BO for receiving
	<input checked="" type="checkbox"/>	Client survey response card
		Vapor Pins – indicate type: barbed/compression
	<input type="checkbox"/>	Vapor Pins with sleeves: Qty _____
	<input type="checkbox"/>	Tygon pieces/FLX Fittings: Qty _____
	<input type="checkbox"/>	Installation tool
	<input type="checkbox"/>	Deadblow hammer
	<input type="checkbox"/>	Hole Brush
	<input type="checkbox"/>	Additional Items (see form F06)

Check Out
 BO#/Client: 14330 / TBC
 Assembled/Checked Out: Date/Initials 9/7/21 BU
 Serial #s Entered in LIMS: Date/Initials an 9/7/21
 Verified: Date/Initials an 9/7/21

Check In
 Sample Receipt Checklist: Date/Initials: 9/9/21 1230
 Work Order No.: 21090907
 Checked In: Date/Initials _____

Notes Indoor / Soil Gas not indicated on the COC

- Sample Receipt Checklist (Y/N): To be completed during login**
- *All sample fields completed and accurate: Sample ID; Start/Stop Dates/Times; Canister ID (S/N); Flow Controller ID (S/N); Field Start and Stop Pressures; Soil Gas/Indoor Air.
 - *Sampling times documented in 24 hour clock or am/pm or else verified.
 - *Incoming lab pressure w/in 5" of field stop pressure and < 10" Hg for indoor air and <15" Hg for soil gas.

*These sample check in criteria must be met or the nonconformance must be documented in the Sampling & Login case narrative field of the work order in LIMS and communicated to the PSS project manager for client notification.

Sample Receipt Checklist

Project Name: ACPS IAQ Testing

PSS Project No.: 21090907

Client Name Total Environmental Concepts - Lortc
Received By Thomas Wingate
Disposal Date 10/14/2021
Date Received 09/09/2021 12:30:00 PM
Delivered By Client
Tracking No Not Applicable
Logged In By Thomas Wingate

Shipping Container(s)

No. of Coolers 0

Custody Seal(s) Intact? N/A
 Seal(s) Signed / Dated? N/A

Ice N/A
 Temp (deg C)
 Temp Blank Present No

Documentation

COC agrees with sample labels? Yes
 Chain of Custody Yes

Sampler Name Channing and Margaret
 MD DW Cert. No. N/A

Sample Container

Appropriate for Specified Analysis? Yes
 Intact? Yes
 Labeled and Labels Legible? Yes

Custody Seal(s) Intact? Not Applicable
 Seal(s) Signed / Dated Not Applicable

Holding Time

All Samples Received Within Holding Time(s)? Yes

Total No. of Samples Received 15
 Total No. of Containers Received 15

Preservation

Total Metals (pH<2) N/A
 Dissolved Metals, filtered within 15 minutes of collection (pH<2) N/A
 Orthophosphorus, filtered within 15 minutes of collection N/A
 Cyanides (pH>12) N/A
 Sulfide (pH>9) N/A
 TOC, DOC (field filtered), COD, Phenols (pH<2) N/A
 TOX, TKN, NH3, Total Phos (pH<2) N/A
 VOC, BTEX (VOA Vials Rcvd Preserved) (pH<2) N/A
 Do VOA vials have zero headspace? N/A
 624 VOC (Rcvd at least one unpreserved VOA vial) N/A
 524 VOC (Rcvd with trip blanks) (pH<2) N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Soil gas/indoor air not indicated on COC; samples are indoor air.

Samples Inspected/Checklist Completed By:



Thomas Wingate

Date: 09/09/2021

PM Review and Approval:



Lynn Jackson

Date: 09/09/2021

Appendix D: Formaldehyde Analytical Results

Project Name: ACPS IAQ Testing
PSS Project No.: 21091318

September 21, 2021

Karl Ford
Total Environmental Concepts - Lorton
8382 Terminal Road, Suite B
Lorton, VA 22079



Reference: PSS Project No: **21091318**
Project Name: ACPS IAQ Testing
Project Location: Mt. Vernon Community School
Project ID.: 4920002

Dear Karl Ford:

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Project number(s) **21091318**.

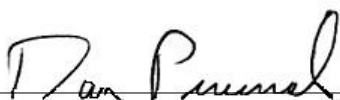
All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on October 18, 2021, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,


Dan Prucnal

Laboratory Manager

Explanation of Qualifiers

Project Name: ACPS IAQ Testing
 PSS Project No.: 21091318

Project ID: 4920002

The following samples were received under chain of custody by Phase Separation Science (PSS) on 09/13/2021 at 12:42 pm

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
21091318-001	MV- Reception	AIR	09/08/21 00:00
21091318-002	MV- Class 104	AIR	09/08/21 00:00
21091318-003	MV- Library	AIR	09/08/21 00:00
21091318-004	MV- Auditorium	AIR	09/08/21 00:00
21091318-005	MV- Class 113	AIR	09/08/21 00:00
21091318-006	MV- Cafe	AIR	09/08/21 00:00
21091318-007	MV- Class 119	AIR	09/08/21 00:00
21091318-008	MV- Class 123	AIR	09/08/21 00:00
21091318-009	MV- Gym	AIR	09/08/21 00:00
21091318-010	MV- Hall 210	AIR	09/08/21 00:00
21091318-011	MV- Class 220	AIR	09/08/21 00:00
21091318-012	MV- Class 228	AIR	09/08/21 00:00
21091318-013	MV- Class 234	AIR	09/08/21 00:00
21091318-014	MV- Hall 201	AIR	09/08/21 00:00
21091318-015	MV- Class 318	AIR	09/08/21 00:00
21091318-016	MV- Class 323	AIR	09/08/21 00:00

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminants, and part 141.3, for the secondary drinking water contaminants.
5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].
7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.

Explanation of Qualifiers

Project Name: ACPS IAQ Testing

PSS Project No.: 21091318

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than the MDL.
- MDL This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156
State Certifications: MD 179, WV 303
Regulated Soil Permit: P330-12-00268
NSWC USCG Accepted Laboratory
LDBE MWAA LD1997-0041-2015

**Ms. Amber Confer
Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228**

September 21, 2021

Account# 15354

Login# L546488

Dear Amber Confer:

Enclosed are the analytical results for the samples received by our laboratory on September 14, 2021. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson



**Lisa Swab
Laboratory Director**

Enclosure(s)

Terms and Conditions & General Disclaimers

- This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.
- Any holder of this document is advised that information contained herein reflects the Company’s findings at the time of its intervention only and within the limits of Client’s instructions, if any. The Company’s sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Analytical Disclaimers

- Unless otherwise noted within the report, all quality control results associated with the samples were within established control limits or did not impact reported results.
- Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client’s direction). The laboratory does not have control over the sampling process, including but not limited to the use of field equipment and collection media, as well as the sampling duration, collection volume or any other collection parameter used by the Client. The findings herein constitute no warranty of the sample’s representativeness of any sampled environment, and strictly relate to the samples as they were presented to the laboratory. For recommended sampling collection parameters, please refer to the Sampling and Analysis Guide at www.sgs.com.
- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.
- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).
- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

Accreditations SGS Galson holds a variety of accreditations and recognitions. Our quality management system conforms with the requirements of ISO/IEC 17025. Where applicable, samples may also be analyzed in accordance with the requirements of ELAP, NELAC, or LELAP under one of the state accrediting bodies listed below. Current Scopes of Accreditation can be viewed at <http://www.sgs.com> in the accreditations section of the "About" page. To determine if the analyte tested falls under our scope of accreditation, please visit our website or call Client Services at (888) 432-5227.

National/International	Accreditation/Recognition	Lab ID#	Program/Sector
AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP	ISO/IEC 17025 and USEPA NLLAP	Lab ID 100324	Industrial Hygiene, Environmental Lead, Environmental Microbiology

State	Accreditation/Recognition	Lab ID#	Program/Sector
New York (NYSDOH)	ELAP and NELAC (TNI)	Lab ID: 11626	Air Analysis, Solid and Hazardous Waste
New Jersey (NJDEP)	NELAC (TNI)	Lab ID: NY024	Air Analysis
Louisiana (LDEQ)	LELAP	Lab ID: 04083	Air Analysis, Solid Chemical Materials
Texas	Texas Dept. of Licensing and Regulation	Lab ID: 1042	Mold Analysis Laboratory license

Legend

< - Less than	mg - Milligrams	MDL - Method Detection Limit	ppb - Parts per Billion
> - Greater than	ug - Micrograms	NA - Not Applicable	ppm - Parts per Million
l - Liters	m3 - Cubic Meters	NS - Not Specified	ppbv - ppb Volume
LOQ - Limit of Quantitation	kg - Kilograms	ND - Not Detected	ppmv - ppm Volume
ft2 - Square Feet	cm2 - Square Centimeters	in2 - Square Inches	ng - Nanograms



GALSON

LABORATORY ANALYSIS REPORT

6601 Kirkville Road
 East Syracuse, NY 13057
 (315) 432-5227
 FAX: (315) 437-0571
 www.sgsgalson.com

Client : Phase Separation Science, Inc. Account No.: 15354
 Site : MT. VERNON COMMUNITY SCHOOL Login No. : L546488
 Project No. : ACPS IAQ TESTING-4920002
 Date Sampled : 08-SEP-21 Date Analyzed : 15-SEP-21
 Date Received : 14-SEP-21 Report ID : 1265195

Formaldehyde

<u>Sample ID</u>	<u>Lab ID</u>	<u>Time minutes</u>	<u>Total ug</u>	<u>Conc mcg/m3</u>	<u>ppm</u>
MV - RECEPTION	L546488-1	268	<0.4	<0.01	<0.01
MV - CLASS 104	L546488-2	265	<0.4	<0.01	<0.01
MV - LIBRARY	L546488-3	265	<0.4	<0.01	<0.01
MV - AUDITORIUM	L546488-4	263	<0.4	<0.01	<0.01
MV - CLASS 113	L546488-5	260	<0.4	<0.01	<0.01
MV - CAFE	L546488-6	256	<0.4	<0.01	<0.01
MV - CLASS 119	L546488-7	258	<0.4	<0.01	<0.01
MV - CLASS 123	L546488-8	253	<0.4	<0.01	<0.01
MV - GYM	L546488-9	238	<0.4	<0.01	<0.01
MV - HALL 211	L546488-10	240	<0.4	<0.01	<0.01
MV - CLASS 220	L546488-11	258	<0.4	<0.01	<0.01
MV - CLASS 228	L546488-12	253	<0.4	<0.01	<0.01
MV - CLASS 234	L546488-13	253	<0.4	<0.01	<0.01
MV - HALL 201	L546488-14	253	<0.4	<0.01	<0.01
MV - CLASS 318	L546488-15	240	<0.4	<0.01	<0.01
MV - CLASS 323	L546488-16	248	<0.4	<0.01	<0.01

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of Quantitation: 0.4 ug
 Analytical Method : mod. OSHA 1007; HPLC/UV
 Collection Media : Assay 581

Submitted by: JLL
 Date : 21-SEP-21
 Supervisor : MWJ

Approved by: NKP



GALSON

LABORATORY FOOTNOTE REPORT

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

Client Name : Phase Separation Science, Inc.
Site : MT. VERNON COMMUNITY SCHOOL
Project No. : ACPS IAQ TESTING-4920002

Date Sampled : 08-SEP-21
Date Received: 14-SEP-21
Date Analyzed: 15-SEP-21

Account No.: 15354
Login No. : L546488

L546488 (Report ID: 1265195):

Total ug corrected for a desorption efficiency of 96%.
FORMALDEHYDE results have been corrected for the average background found on the media:
0.1178 ug for lot #4B21 (samples 1-16).
SOPs: LC-SOP-4(23)

L546488 (Report ID: 1265195):

Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

Parameter	Accuracy	Mean Recovery
Formaldehyde	+/-12.1%	95.3%

1Z2313E40165206989

Date: 09/14/21

Shipper: UPS

Initials: BGF

1546488

21091318

New Client? Report To*: Phase Separation Science

Invoice To*: Phase Separation Science

6630 Baltimore National Pike

Client Account No.*: Baltimore, MD 21228

Prep: UNKNOWN

Phone No.*: 410-747-8770

Phone No.: 410-747-8770

Tel: (315) 432-5227
888-432-LABS (5227)

Cell No.:

Email: invoicing@phaseonline.com

www.sgsgalson.com

75-76
Email Results to: Amber Confer

P.O. No.: ODC 4920002-001

Email address: reporting@phaseonline.com

Credit Card: Card on File Call for Credit Card Info.

Samples submitted using the FreePumpLoan™ Program

Samples submitted using the FreeSamplingBadges™ Program

Need Results By: (surcharge)

- ~~N/A~~ Standard 0%
- 4 Business Days 35%
- 3 Business Days 50%
- 2 Business Days 75%
- Next Day by 6pm 100%
- Next Day by Noon 150%
- Same Day 200%

Site Name: Mt. Vernon Community School Project: ACPS IAQ testing - 4920002 Sampled by: Karl Ford

Comments:
Dosimeter cartridge # noted in the (Hexavalent Chromium Process) column

List description of industry or Process/interferences present in sampling area:

Public grade school building

State samples were collected in (e.g., NY)

VA

Please indicate which OEL this data will be used for:

- OSHA PEL ACGIH TLV Cal OSHA
- MSHA Other (specify):

Sample Identification* (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml, min, in, 2, cm, 2, ft	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
MV - Reception	09/08/21	Assay N581 Aldehyde Badge	268	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4513
MV - Class 104	09/08/21	Assay N581 Aldehyde Badge	265	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4496
MV - Library	09/08/21	Assay N581 Aldehyde Badge	265	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4035
MV - Auditorium	09/08/21	Assay N581 Aldehyde Badge	263	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5104
MV - Class 113	09/08/21	Assay N581 Aldehyde Badge	260	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4976
MV - Cafe	09/08/21	Assay N581 Aldehyde Badge	256	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4859
MV - Class 119	09/08/21	Assay N581 Aldehyde Badge	258	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4920
MV - Class 123	09/08/21	Assay N581 Aldehyde Badge	253	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4391
MV - Gym	09/08/21	Assay N581 Aldehyde Badge	238	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5057
MV - Hall 215 <i>0 on 9/13/21</i>	09/08/21	Assay N581 Aldehyde Badge	240	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4205
MV - Class 220	09/08/21	Assay N581 Aldehyde Badge	258	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4557

^Galson Laboratories will substitute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)* :

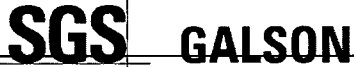
Chain of Custody	Print Name/Signature	Date	Time	Print Name/Signature	Date	Time
Relinquished by:	Channing Jackson	09/09/21	12:30	Received by:		
Relinquished by:	<i>Ted Kraus</i>	<i>9/13/21</i>	<i>1248</i>	Received by:	<i>Amber Confer</i>	<i>9/13/21 1242</i>

Samples received after 3pm will be considered as next day's business

* Required for metals analysis. Report Reference: Generated by SPS 210082 being processed.

Page 1 of 2

21091318



New Client? Report To* : Phase Separation Science
 6630 Baltimore National Pike
 Client Account No.*: Baltimore, MD 21228
 Phone No.* : 410-747-8770
 Cell No. :
 Email Results to : Amber Confer
 Email address: reporting@phaseonline.com

Invoice To* : Phase Separation Science
 Phone No.: 410-747-8770
 Email : invoicing@phaseonline.com
 P.O. No. : ODC 4920002-001
 Credit Card : Card on File Call for Credit Card Info.

6601 Kirkville Rd
 East Syracuse, NY 13057
 Tel: (315) 432-5227
 888-432-LABS (5227)
 www.sgsgalson.com

Samples submitted using the FreePumpLoan™ Program Samples submitted using the FreeSamplingBadges™ Program

Need Results By:	(surcharge)
<input checked="" type="checkbox"/> Standard	0%
<input type="checkbox"/> 4 Business Days	35%
<input type="checkbox"/> 3 Business Days	50%
<input type="checkbox"/> 2 Business Days	75%
<input type="checkbox"/> Next Day by 6pm	100%
<input type="checkbox"/> Next Day by Noon	150%
<input type="checkbox"/> Same Day	200%

Site Name : Mt. Vernon Community School Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford

Comments :
 Dosimeter cartridge # noted in the (Hexavalent Chromium Process) column

List description of industry or Process/interferences present in sampling area :
 Public grade school building

State samples were collected in (e.g., NY):
 VA

Please indicate which OEL this data will be used for :
 OSHA PEL ACGIH TLV Cal OSHA
 MSHA Other (specify):

Sample Identification* (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
MV - Class 228	09/08/21	Assay N581 Aldehyde Badge	253	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4037
MV - Class 234	09/08/21	Assay N581 Aldehyde Badge	253	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5434
MV - Hall 201	09/08/21	Assay N581 Aldehyde Badge	253	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4475
MV - Class 318	09/08/21	Assay N581 Aldehyde Badge	240	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4768
MV - Class 323	09/08/21	Assay N581 Aldehyde Badge	248	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4363
		Assay N581 Aldehyde Badge		Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge		Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge		Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge		Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge		Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge		Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge		Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	

^Galson Laboratories will substitute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)* :

Chain of Custody	Print Name/Signature	Date	Time	Print Name/Signature	Date	Time
Relinquished by :	Channing Jackson	09/09/21	12:30	Received by :		
Relinquished by :	Ted Krans	9/13/21	1242	Received by :	Alan Fisher	09/13/21 1242

Samples received after 3pm will be considered as next day's business
 * Required for Phase 1 of 7 - Report Reference Generated SEP 21 2021 being processed. Page 2 of 2



Chain of Custody Form for Subcontracted Analyses

09/13/21

Phase Separation Science, Inc
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770
Fax: (410) 788-8723

W.O. No. : **21091318**
Project Location : Mt. Vernon Community School
Project Number : 4920002
Report To LOD : No

Samples Transferred To:
SGS North America - NY
6601 Kirkville Road
East Syracuse, NY 13057
Old SGS Galson Labs. bsc
Phone : 315-432-5227

For Questions or issues please contact: Amber Confer

Report Due On : 09/21/21 05:00

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
21091318-001	MV- Reception	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091318-002	MV- Class 104	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091318-003	MV- Library	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091318-004	MV- Auditorium	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091318-005	MV- Class 113	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091318-006	MV- Cafe	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091318-007	MV- Class 119	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091318-008	MV- Class 123	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091318-009	MV- Gym	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091318-010	MV- Hall 210	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091318-011	MV- Class 220	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091318-012	MV- Class 228	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091318-013	MV- Class 234	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091318-014	MV- Class 201	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091318-015	MV- Class 318	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091318-016	MV- Class 323	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON

Data Deliverables Required: COA

Perform Q.C. on Sample : _____

Send Report Attn : reporting@phaseonline.com

Send Invoice Attn : invoicing@phaseonline.com

Airbill No.: _____ Carrier : UPS

Condition Upon Receipt : _____

Comments :

Samples Relinquished By: Amber Confer Date: 9/13/21 Time: _____ Samples Received By: Brett Grenert-Fischer Brett Grenert-Fischer 9/14/21

Samples Relinquished By: _____ Date: Page 7 of 7 Time: _____ Report Reference: Generated: 21-SEP-21 08:27

0944

Case Narrative

Project Name: ACPS IAQ Testing

PSS Project No.: 21091318

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

All sample receipt conditions were acceptable.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

21091318



New Client? Report To* : Phase Separation Science
 6630 Baltimore National Pike
 Client Account No.*: Baltimore, MD 21228
 Phone No.* : 410-747-8770
 Cell No. :
 Email Results to : Amber Confer
 Email address: reporting@phaseonline.com

Invoice To* : Phase Separation Science
 Phone No.: 410-747-8770
 Email : invoicing@phaseonline.com
 P.O. No. : ODC 4920002-001
 Credit Card : Card on File Call for Credit Card Info.

6601 Kirkville Rd
 East Syracuse, NY 13057
 Tel: (315) 432-5227
 888-432-LABS (5227)
 www.sgsгалсон.com

Samples submitted using the FreePumpLoan™ Program Samples submitted using the FreeSamplingBadges™ Program

Need Results By:	(surcharge)	Site Name : Mt. Vernon Community School	Project : ACPS IAQ testing - 4920002	Sampled by : Karl Ford
------------------	-------------	---	--------------------------------------	------------------------

<input checked="" type="checkbox"/> Standard	0%
<input type="checkbox"/> 4 Business Days	35%
<input type="checkbox"/> 3 Business Days	50%
<input type="checkbox"/> 2 Business Days	75%
<input type="checkbox"/> Next Day by 6pm	100%
<input type="checkbox"/> Next Day by Noon	150%
<input type="checkbox"/> Same Day	200%

Comments :
 Dosimeter cartridge # noted in the (Hexavalent Chromium Process) colum

List description of industry or Process/interferences present in sampling area :
 Public grade school building

State samples were collected in (e.g., NY)
 VA

Please indicate which OEL this data will be used for :
 OSHA PEL ACGIH TLV Cal OSHA
 MSHA Other (specify):

Sample Identification* (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
MV - Reception	09/08/21	Assay N581 Aldehyde Badge	268	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4513
MV - Class 104	09/08/21	Assay N581 Aldehyde Badge	265	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4496
MV - Library	09/08/21	Assay N581 Aldehyde Badge	265	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4035
MV - Auditorium	09/08/21	Assay N581 Aldehyde Badge	263	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5104
MV - Class 113	09/08/21	Assay N581 Aldehyde Badge	260	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4976
MV - Cafe	09/08/21	Assay N581 Aldehyde Badge	256	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4859
MV - Class 119	09/08/21	Assay N581 Aldehyde Badge	258	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4920
MV - Class 123	09/08/21	Assay N581 Aldehyde Badge	253	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4391
MV - Gym	09/08/21	Assay N581 Aldehyde Badge	238	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5057
MV - Hall 215 <i>09/13/21</i>	09/08/21	Assay N581 Aldehyde Badge	240	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4205
MV - Class 220	09/08/21	Assay N581 Aldehyde Badge	258	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4557

^Galson Laboratories will substitute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)* :

Chain of Custody	Print Name/Signature	Date	Time	Received by :	Print Name/Signature	Date	Time
Relinquished by :	Channing Jackson	09/09/21	12:30	Received by :			
Relinquished by :	<i>Ted Kraus</i>	<i>9/13/21</i>	<i>1248</i>	Received by :	<i>Amber Confer</i>	<i>9/13/21</i>	<i>1242</i>

Samples received after 3pm will be considered as next day's business
 * Required fields, failure to complete these fields may result in a delay in your samples being processed. Page 1 of 2

21091318



New Client? Report To* : Phase Separation Science
 6630 Baltimore National Pike
 Client Account No.*: Baltimore, MD 21228
 Phone No.* : 410-747-8770
 Cell No. :
 Email Results to : Amber Confer
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Invoice To* : Phase Separation Science
 Phone No.: 410-747-8770
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 P.O. No. : ODC 4920002-001
 Credit Card : Card on File Call for Credit Card Info.

6601 Kirkville Rd
 East Syracuse, NY 13057
 Tel: (315) 432-5227
 888-432-LABS (5227)
 www.sgsгалсон.com

Samples submitted using the FreePumpLoan™ Program Samples submitted using the FreeSamplingBadges™ Program

Need Results By:	(surcharge)	Site Name : Mt. Vernon Community School	Project : ACPS IAQ testing - 4920002	Sampled by : Karl Ford
------------------	-------------	---	--------------------------------------	------------------------

<input checked="" type="checkbox"/> Standard	0%
<input type="checkbox"/> 4 Business Days	35%
<input type="checkbox"/> 3 Business Days	50%
<input type="checkbox"/> 2 Business Days	75%
<input type="checkbox"/> Next Day by 6pm	100%
<input type="checkbox"/> Next Day by Noon	150%
<input type="checkbox"/> Same Day	200%

Comments :
 Dosimeter cartridge # noted in the (Hexavalent Chromium Process) colum

List description of industry or Process/interferences present in sampling area :
 Public grade school building

State samples were collected in (e.g., NY)
 VA

Please indicate which OEL this data will be used for :
 OSHA PEL ACGIH TLV Cal OSHA
 MSHA Other (specify):

Sample Identification* (Maxmium of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
MV - Class 228	09/08/21	Assay N581 Aldehyde Badge	253	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4037
MV - Class 234	09/08/21	Assay N581 Aldehyde Badge	253	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5434
MV - Hall 201	09/08/21	Assay N581 Aldehyde Badge	253	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4475
MV - Class 318	09/08/21	Assay N581 Aldehyde Badge	240	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4768
MV - Class 323	09/08/21	Assay N581 Aldehyde Badge	248	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4363
		Assay N581 Aldehyde Badge		Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge		Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge		Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge		Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge		Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge		Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	

*Galson Laboratories will substitute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)* :

Chain of Custody	Print Name/Signature	Date	Time	Received by :	Print Name/Signature	Date	Time
Relinquished by :	Channing Jackson	09/09/21	12:30	Received by :			
Relinquished by :	Teel Kraus	9/13/21	12:42	Received by :	John Yob	09/13/21	12:42

Samples received after 3pm will be considered as next day's business
 * Required fields, failure to complete these fields may result in a delay in your samples being processed. Page 2 of 2

Sample Receipt Checklist

Project Name: ACPS IAQ Testing

PSS Project No.: 21091318

Client Name	Total Environmental Concepts - Lortc	Received By	Amber Confer
Disposal Date	10/18/2021	Date Received	09/13/2021 12:42:00 PM
		Delivered By	Client
		Tracking No	Not Applicable
		Logged In By	Amber Confer

Shipping Container(s)

No. of Coolers 0

Custody Seal(s) Intact? N/A
 Seal(s) Signed / Dated? N/A

Ice N/A
 Temp (deg C)
 Temp Blank Present No

Documentation

COC agrees with sample labels? Yes
 Chain of Custody Yes

Sampler Name Karl Ford
 MD DW Cert. No. N/A

Sample Container

Appropriate for Specified Analysis? Yes
 Intact? Yes
 Labeled and Labels Legible? Yes

Custody Seal(s) Intact? Not Applicable
 Seal(s) Signed / Dated Not Applicable

Holding Time

All Samples Received Within Holding Time(s)? Yes

Total No. of Samples Received 16
 Total No. of Containers Received 16

Preservation

Total Metals (pH<2) N/A
 Dissolved Metals, filtered within 15 minutes of collection (pH<2) N/A
 Orthophosphorus, filtered within 15 minutes of collection N/A
 Cyanides (pH>12) N/A
 Sulfide (pH>9) N/A
 TOC, DOC (field filtered), COD, Phenols (pH<2) N/A
 TOX, TKN, NH3, Total Phos (pH<2) N/A
 VOC, BTEX (VOA Vials Rcvd Preserved) (pH<2) N/A
 Do VOA vials have zero headspace? N/A
 624 VOC (Rcvd at least one unpreserved VOA vial) N/A
 524 VOC (Rcvd with trip blanks) (pH<2) N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Samples Inspected/Checklist Completed By:

Amber J Confer

 Amber Confer

Date: 09/13/2021

PM Review and Approval:

Lynn Jackson

 Lynn Jackson
 Page 14 of 14

Date: 09/13/2021



6601 Kirkville Rd
 East Syracuse, NY 13057
 Tel: (315) 432-5227
 888-432-LABS (5227)

www.sgsgalson.com

New Client? Report To* : _____
 Client Account No.*: _____
 Phone No.* : _____
 Cell No. : _____
 Email Results to : _____
 Email address: _____

Invoice To* : _____
 Phone No.: _____
 Email : _____
 P.O. No. : _____
 Credit Card : Card on File Call for Credit Card Info.

Samples submitted using the FreePumpLoan™ Program Samples submitted using the FreeSamplingBadges™ Program

Need Results By:	(surcharge)
<input type="checkbox"/> Standard	0%
<input type="checkbox"/> 4 Business Days	35%
<input type="checkbox"/> 3 Business Days	50%
<input type="checkbox"/> 2 Business Days	75%
<input type="checkbox"/> Next Day by 6pm	100%
<input type="checkbox"/> Next Day by Noon	150%
<input type="checkbox"/> Same Day	200%

Site Name : _____ Project : _____ Sampled by : _____
 Comments : _____

List description of industry or Process/interferences present in sampling area : _____
 State samples were collected in (e.g., NY) _____
 Please indicate which OEL this data will be used for :
 OSHA PEL ACGIH TLV Cal OSHA
 MSHA Other (specify): _____

Sample Identification* (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*

^Galson Laboratories will substitute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)* :

Chain of Custody	Print Name/Signature	Date	Time	Print Name/Signature	Date	Time
Relinquished by :				Received by :		
Relinquished by :				Received by :		



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 East Syracuse, NY 13057
 Tel: (315) 432-5227
 888-432-LABS (5227)

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New Client? Report To* : _____
 Client Account No.*: _____
 Phone No.* : _____
 Cell No. : _____
 Email Results to : _____
 Email address: _____

Invoice To* : _____
 Phone No.: _____
 Email : _____
 P.O. No. : _____
 Credit Card : Card on File Call for Credit Card Info.

Samples submitted using the FreePumpLoan™ Program Samples submitted using the FreeSamplingBadges™ Program

Need Results By:	(surcharge)	Site Name :	Project :	Sampled by :		
<input type="checkbox"/> Standard	0%	Comments :				
<input type="checkbox"/> 4 Business Days	35%					
<input type="checkbox"/> 3 Business Days	50%					
<input type="checkbox"/> 2 Business Days	75%					
<input type="checkbox"/> Next Day by 6pm	100%	List description of industry or Process/interferences present in sampling area :	State samples were collected in (e.g., NY)	Please indicate which OEL this data will be used for :		
<input type="checkbox"/> Next Day by Noon	150%			<input type="checkbox"/> OSHA PEL	<input type="checkbox"/> ACGIH TLV	<input type="checkbox"/> Cal OSHA
<input type="checkbox"/> Same Day	200%			<input type="checkbox"/> MSHA	<input type="checkbox"/> Other (specify):	

Sample Identification* (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*

^Galson Laboratories will substitute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)* :

Chain of Custody	Print Name/Signature	Date	Time	Print Name/Signature	Date	Time
Relinquished by :				Received by :		
Relinquished by :				Received by :		

Appendix E: 4-PCH Analytical Results

Project Name: ACPS IAQ Testing
PSS Project No.: 21090302

September 15, 2021

Karl Ford
Total Environmental Concepts - Lorton
8382 Terminal Road, Suite B
Lorton, VA 22079



Reference: PSS Project No: **21090302**
Project Name: ACPS IAQ Testing
Project Location: Mount Vernon Community School
Project ID.: 4920002

Dear Karl Ford:

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Project number(s) **21090302**.


All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on October 7, 2021, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,


Dan Prucnal

Laboratory Manager

Project Name: ACPS IAQ Testing

PSS Project No.: 21090302

Project ID: 4920002

The following samples were received under chain of custody by Phase Separation Science (PSS) on 09/02/2021 at 05:15 pm

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
21090302-001	MV-Reception	AIR	08/31/21 00:00
21090302-002	MV-Class 104	AIR	08/31/21 00:00
21090302-003	MV-Library	AIR	08/31/21 00:00
21090302-004	MV-Auditorium	AIR	08/31/21 00:00
21090302-005	MV-Class 113	AIR	08/31/21 00:00
21090302-006	MV-Cafe	AIR	08/31/21 00:00
21090302-007	MV-Class 119	AIR	08/31/21 00:00
21090302-008	MV-Class 123	AIR	08/31/21 00:00
21090302-009	MV-Gym	AIR	08/31/21 00:00
21090302-010	MV-Hall 215	AIR	08/31/21 00:00
21090302-011	MV-Class 220	AIR	08/31/21 00:00
21090302-012	MV-Class 228	AIR	08/31/21 00:00
21090302-013	MV-Class 234	AIR	08/31/21 00:00
21090302-014	MV-Class 318	AIR	08/31/21 00:00
21090302-015	MV-Class 323	AIR	08/31/21 00:00

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminants, and part 141.3, for the secondary drinking water contaminants.
5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].
7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.

Explanation of Qualifiers

Project Name: ACPS IAQ Testing

PSS Project No.: 21090302

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than the MDL.
- MDL This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156
State Certifications: MD 179, WV 303
Regulated Soil Permit: P330-12-00268
NSWC USCG Accepted Laboratory
LDBE MWAA LD1997-0041-2015



GALSON

Ms. Amber Confer
Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228

September 15, 2021

Account# 15354

Login# L546043

Dear Amber Confer:

Enclosed are the analytical results for the samples received by our laboratory on September 08, 2021. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson

Lisa Swab
Laboratory Director

Enclosure(s)

Terms and Conditions & General Disclaimers

- This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.
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Analytical Disclaimers

- Unless otherwise noted within the report, all quality control results associated with the samples were within established control limits or did not impact reported results.
- Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client’s direction). The laboratory does not have control over the sampling process, including but not limited to the use of field equipment and collection media, as well as the sampling duration, collection volume or any other collection parameter used by the Client. The findings herein constitute no warranty of the sample’s representativeness of any sampled environment, and strictly relate to the samples as they were presented to the laboratory. For recommended sampling collection parameters, please refer to the Sampling and Analysis Guide at www.sgs.com.
- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.
- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).
- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

Accreditations SGS Galson holds a variety of accreditations and recognitions. Our quality management system conforms with the requirements of ISO/IEC 17025. Where applicable, samples may also be analyzed in accordance with the requirements of ELAP, NELAC, or LELAP under one of the state accrediting bodies listed below. Current Scopes of Accreditation can be viewed at <http://www.sgs.com> in the accreditations section of the "About" page. To determine if the analyte tested falls under our scope of accreditation, please visit our website or call Client Services at (888) 432-5227.

National/International	Accreditation/Recognition	Lab ID#	Program/Sector
AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP	ISO/IEC 17025 and USEPA NLLAP	Lab ID 100324	Industrial Hygiene, Environmental Lead, Environmental Microbiology

State	Accreditation/Recognition	Lab ID#	Program/Sector
New York (NYSDOH)	ELAP and NELAC (TNI)	Lab ID: 11626	Air Analysis, Solid and Hazardous Waste
New Jersey (NJDEP)	NELAC (TNI)	Lab ID: NY024	Air Analysis
Louisiana (LDEQ)	LELAP	Lab ID: 04083	Air Analysis, Solid Chemical Materials
Texas	Texas Dept. of Licensing and Regulation	Lab ID: 1042	Mold Analysis Laboratory license

Legend

< - Less than	mg - Milligrams	MDL - Method Detection Limit	ppb - Parts per Billion
> - Greater than	ug - Micrograms	NA - Not Applicable	ppm - Parts per Million
l - Liters	m3 - Cubic Meters	NS - Not Specified	ppbv - ppb Volume
LOQ - Limit of Quantitation	kg - Kilograms	ND - Not Detected	ppmv - ppm Volume
ft2 - Square Feet	cm2 - Square Centimeters	in2 - Square Inches	ng - Nanograms



GALSON

LABORATORY ANALYSIS REPORT

6601 Kirkville Road
 East Syracuse, NY 13057
 (315) 432-5227
 FAX: (315) 437-0571
 www.sgsgalson.com

Client : Phase Separation Science, Inc. Account No.: 15354
 Site : MOUNT VERNON COMMUNITY SCHOOL Login No. : L546043
 Project No. : ACPS IAQ TESTING - 4920002
 Date Sampled : 31-AUG-21 Date Analyzed : 11-SEP-21
 Date Received : 08-SEP-21 Report ID : 1264751

4-Phenylcyclohexene (4PCH low LOQ)

Sample ID	Lab ID	Air Vol liter	Front ug	Back ug	Total ug	Conc mg/m3	ppm
MV - RECEPTION	L546043-1	47.6	<0.2	<0.2	<0.2	<0.004	<0.0007
MV - CLASS 104	L546043-2	47.6	<0.2	<0.2	<0.2	<0.004	<0.0007
MV - LIBRARY	L546043-3	48	<0.2	<0.2	<0.2	<0.004	<0.0007
MV - AUDITORIUM	L546043-4	47.6	<0.2	<0.2	<0.2	<0.004	<0.0007
MV - CLASS 113	L546043-5	49	<0.2	<0.2	<0.2	<0.004	<0.0007
MV - CAFE	L546043-6	48	<0.2	<0.2	<0.2	<0.004	<0.0007
MV - CLASS 119	L546043-7	48	<0.2	<0.2	<0.2	<0.004	<0.0007
MV - CLASS 123	L546043-8	48.2	<0.2	<0.2	<0.2	<0.004	<0.0007
MV - GYM	L546043-9	54	<0.2	<0.2	<0.2	<0.004	<0.0006
MV - HALL 215	L546043-10	42	<0.2	<0.2	<0.2	<0.005	<0.0008
MV - CLASS 220	L546043-11	42.4	<0.2	<0.2	<0.2	<0.005	<0.0008
MV - CLASS 228	L546043-12	43	<0.2	<0.2	<0.2	<0.005	<0.0007
MV - CLASS 234	L546043-13	42.6	<0.2	<0.2	<0.2	<0.005	<0.0007
MV - CLASS 318	L546043-14	42.4	<0.2	<0.2	<0.2	<0.005	<0.0008
MV - CLASS 323	L546043-15	42.4	<0.2	<0.2	<0.2	<0.005	<0.0008

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of Quantitation: 0.2 ug
 Analytical Method : mod. NIOSH 1501; GC/PID
 Collection Media : 226-01

Submitted by: ECB
 Date : 15-SEP-21
 Supervisor : KAG

Approved by: NKP



GALSON

LABORATORY FOOTNOTE REPORT

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.ssggalson.com

Client Name : Phase Separation Science, Inc.
Site : MOUNT VERNON COMMUNITY SCHOOL
Project No. : ACPS IAQ TESTING - 4920002

Date Sampled : 31-AUG-21 Account No.: 15354
Date Received: 08-SEP-21 Login No. : L546043
Date Analyzed: 11-SEP-21

L546043 (Report ID: 1264751):

Total ug corrected for a desorption efficiency of 97%.
SOPs: GC-SOP-16(26), GC-SOP-8(27), GC-SOP-12(20)

L546043 (Report ID: 1264751):

Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

<u>Parameter</u>	<u>Accuracy</u>	<u>Mean Recovery</u>
4-Phenylcyclohexene (4PCH low LOQ)	+/-18%	88.2%

122313E40165585972

Date: 09/08/21

Shipper: UPS

Initials: BGF



Prep: UNKNOWN

21090302

New Client? Report To*: Phase Separation Science
6630 Baltimore National Pike
Baltimore, MD 21228

Invoice To*: Phase Separation Science

L546043

6601 Kirkville Rd
East Syracuse, NY 13057
Tel: (315) 432-5227
888-432-LABS (5227)

Client Account No.*:
Phone No.*: 410-747-8770

Phone No.: 410-747-8770

92

Cell No.:

Email: invoicing@phaseonline.com

www.sgsgalson.com

Email Results to: Amber Confer

P.O. No.: ODC 4920002-001

Email address: reporting@phaseonline.com

Credit Card: Card on File Call for Credit Card Info.

Samples submitted using the FreePumpLoan™ Program Samples submitted using the FreeSamplingBadges™ Program

Need Results By: (surcharge) Standard 0% Site Name: Mount Vernon Community School Project: ACPS IAQ testing - 4920002 Sampled by: Karl Ford

- 4 Business Days 35%
- 3 Business Days 50%
- 2 Business Days 75%
- Next Day by 6pm 100%
- Next Day by Noon 150%
- Same Day 200%

Comments: School

List description of industry or Process/interferences present in sampling area:
Public grade school all NG BGF 9/8/21

State samples were collected in (e.g., NY) VA
Please indicate which OEL this data will be used for:
 OSHA PEL ACGIH TLV Cal OSHA
 MSHA Other (specify):

Sample Identification* (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml, min, in2, cm2, ft2	Analysis Requested*	Method Reference*	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
MV - Reception	08/31/21	Sm Charcoal tubes / 226-01	47.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MV - Class 104	08/31/21	Sm Charcoal tubes / 226-01	47.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MV - Library	08/31/21	Sm Charcoal tubes / 226-01	48	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MV - Auditorium	08/31/21	Sm Charcoal tubes / 226-01	47.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MV - Class 113	08/31/21	Sm Charcoal tubes / 226-01	49	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MV - Cafe	08/31/21	Sm Charcoal tubes / 226-01	48	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MV - Class 119	08/31/21	Sm Charcoal tubes / 226-01	48	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MV - Class 123	08/31/21	Sm Charcoal tubes / 226-01	48.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MV - Gym	08/31/21	Sm Charcoal tubes / 226-01	54	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MV - Hall 215	08/31/21	Sm Charcoal tubes / 226-01	42	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MV - Class 220	08/31/21	Sm Charcoal tubes / 226-01	42.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	

*Galson Laboratories will substitute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:

Chain of Custody	Print Name/Signature	Date	Time	Print Name/Signature	Date	Time
Relinquished by:	<i>[Signature]</i>	9/2/21	2:38	Received by: Derrick Johnson	9/2/21	
Relinquished by:	Derrick Johnson	9/2/21	1715	Received by: <i>[Signature]</i>		

Page 8 of 7 Report Reference: 1 Generated: 15-SEP-21 09:22
* Required fields, failure to complete these fields may result in a delay in your samples being processed.

Page 1 of 2

21090302



New Client? Report To* : Phase Separation Science
6630 Baltimore National Pike

Invoice To* : Phase Separation Science

Client Account No.*: Baltimore, MD 21228

6601 Kirkville Rd
East Syracuse, NY 13057
Tel: (315) 432-5227
888-432-LABS (5227)

Phone No.* : 410-747-8770

Phone No.: 410-747-8770

www.sgsgalson.com

Cell No. :

Email : invoicing@phaseonline.com

Email Results to : Amber Confer

P.O. No. : ODC 4920002-001

Email address: reporting@phaseonline.com

Credit Card : Card on File Call for Credit Card Info.

Samples submitted using the FreePumpLoan™ Program Samples submitted using the FreeSamplingBadges™ Program

Need Results By:	(surcharge)
<input checked="" type="checkbox"/> Standard	0%
<input type="checkbox"/> 4 Business Days	35%
<input type="checkbox"/> 3 Business Days	50%
<input type="checkbox"/> 2 Business Days	75%
<input type="checkbox"/> Next Day by 6pm	100%
<input type="checkbox"/> Next Day by Noon	150%
<input type="checkbox"/> Same Day	200%

Site Name : Mount Vernon Community School Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford

Comments : School

List description of industry or Process/interferences present in sampling area :
Public grade school

State samples were collected in (e.g., NY)
VA

Please indicate which OEL this data will be used for :
 OSHA PEL ACGIH TLV Cal OSHA
 MSHA Other (specify):

Sample Identification* (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units* L, ml, min, in2, cm2, ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
MV - Class 228	08/31/21	Sm Charcoal tubes / 226-01	43	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MV - Class 234	08/31/21	Sm Charcoal tubes / 226-01	42.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MV - Class 318	08/31/21	Sm Charcoal tubes / 226-01	42.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MV - Class 323	08/31/21	Sm Charcoal tubes / 226-01	42.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	

*Galson Laboratories will substitute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)* :

Chain of Custody	Print Name/Signature	Date	Time	Received by:	Print Name/Signature	Date	Time
Relinquished by:	<i>[Signature]</i>	9/2/21	9:25	Received by:	<i>Derrick Johnson</i>	9/2/21	
Relinquished by:	<i>Derrick Johnson</i>	9/2/21	1715	Received by:	<i>[Signature]</i>		

Page 6 of 7 Report Reference: 1 Generated: 15-SEP-21 09:22
 * Required fields, failure to complete these fields may result in a delay in your samples being processed. Page 1 of 2



Chain of Custody Form for Subcontracted Analyses

Phase Separation Science, Inc
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770
Fax: (410) 788-8723

W.O. No. : 21090302
Project Location : Mount Vernon Community School
Project Number : 4920002
Report To LOD : No

Samples Transferred To:
SGS North America - NY
6601 Kirkville Road
East Syracuse, NY 13057
Old SGS Galson Labs. bsc
Phone : 315-432-5227

For Questions or issues please contact: Amber Confer

Report Due On :09/15/21 05:00

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
21090302-001	MV-Reception	08/31/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21090302-002	MV-Class 104	08/31/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21090302-003	MV-Library	08/31/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21090302-004	MV-Auditorium	08/31/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21090302-005	MV-Class 113	08/31/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21090302-006	MV-Cafe	08/31/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21090302-007	MV-Class 119	08/31/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21090302-008	MV-Class 123	08/31/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21090302-009	MV-Gym	08/31/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21090302-010	MV-Hall 215	08/31/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21090302-011	MV-Class 220	08/31/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21090302-012	MV-Class 228	08/31/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21090302-013	MV-Class 234	08/31/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21090302-014	MV-Class 318	08/31/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21090302-015	MV-Class 323	08/31/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON

Data Deliverables Required: COA

Perform Q.C. on Sample : _____

Send Report Attn : reporting@phaseonline.com

Send Invoice Attn : invoicing@phaseonline.com

Airbill No. : _____ Carrier : WPS

Condition Upon Receipt : _____

Comments :

Samples Relinquished By : [Signature] Date : 9/17/21 Time : _____ Samples Received By : Brett Grenert-Fischer Brett Grenert-Fischer 9/10/21
 Samples Relinquished By : _____ Date : _____ Time : _____ Samples Received By : _____ 0953
 Samples Relinquished By : _____ Date : _____ Time : _____ Samples Received By : _____

Case Narrative

Project Name: ACPS IAQ Testing

PSS Project No.: 21090302

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

All sample receipt conditions were acceptable.

21090302: Analyses associated with analyst code 4051 were performed by
SGS North America - NY, 6601 Kirkville Road, East Syracuse, NY 13057 - NY 11626

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

21090302



New Client? Report To* : Phase Separation Science
 6630 Baltimore National Pike
 Baltimore, MD 21228
 Client Account No.* : _____
 Phone No.* : 410-747-8770
 Cell No. : _____
 Email Results to : Amber Confer
 Email address: reporting@phaseonline.com

Invoice To* : Phase Separation Science

 Phone No.: 410-747-8770
 Email : invoicing@phaseonline.com
 P.O. No. : ODC 4920002-001
 Credit Card : Card on File Call for Credit Card Info.

6601 Kirkville Rd
 East Syracuse, NY 13057
 Tel: (315) 432-5227
 888-432-LABS (5227)

www.sgsgalson.com

Samples submitted using the FreePumpLoan™ Program Samples submitted using the FreeSamplingBadges™ Program

Need Results By:	(surcharge)
<input checked="" type="checkbox"/> Standard	0%
<input type="checkbox"/> 4 Business Days	35%
<input type="checkbox"/> 3 Business Days	50%
<input type="checkbox"/> 2 Business Days	75%
<input type="checkbox"/> Next Day by 6pm	100%
<input type="checkbox"/> Next Day by Noon	150%
<input type="checkbox"/> Same Day	200%

Site Name : Mount Vernon Community School Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford
 Comments :

List description of industry or Process/interferences present in sampling area :
 Public grade school
 State samples were collected in (e.g., NY) : VA
 Please indicate which OEL this data will be used for :
 OSHA PEL ACGIH TLV Cal OSHA
 MSHA Other (specify):

Sample Identification* (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml, min, in2, cm2, ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
MV - Reception	08/31/21	Sm Charcoal tubes / 226-01	47.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MV - Class 104	08/31/21	Sm Charcoal tubes / 226-01	47.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MV - Library	08/31/21	Sm Charcoal tubes / 226-01	48	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MV - Auditorium	08/31/21	Sm Charcoal tubes / 226-01	47.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MV - Class 113	08/31/21	Sm Charcoal tubes / 226-01	49	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MV - Cafe	08/31/21	Sm Charcoal tubes / 226-01	48	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MV - Class 119	08/31/21	Sm Charcoal tubes / 226-01	48	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MV - Class 123	08/31/21	Sm Charcoal tubes / 226-01	48.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MV - Gym	08/31/21	Sm Charcoal tubes / 226-01	54	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MV - Hall 215	08/31/21	Sm Charcoal tubes / 226-01	42	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MV - Class 220	08/31/21	Sm Charcoal tubes / 226-01	42.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	

*Galson Laboratories will substitute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)* :

Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by :	<i>[Signature]</i>	9/2/21	2:38	Received by :	<i>[Signature]</i>	9/2/21	
Relinquished by :	<i>[Signature]</i>	9/2/21	17:15	Received by :	<i>[Signature]</i>		

Samples received after 3pm will be considered as next day's business

* Required fields, failure to complete these fields may result in a delay in your samples being processed.

21090302



New Client? Report To* : Phase Separation Science
 6630 Baltimore National Pike
 Client Account No.*: Baltimore, MD 21228
 Phone No.* : 410-747-8770
 Cell No. :
 Email Results to : Amber Confer
 Email address: reporting@phaseonline.com

Invoice To* : Phase Separation Science
 Phone No.: 410-747-8770
 Email : invoicing@phaseonline.com
 P.O. No. : ODC 4920002-001
 Credit Card : Card on File Call for Credit Card Info.

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 East Syracuse, NY 13057
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 888-432-LABS (5227)
 www.sgsгалсон.com

Samples submitted using the FreePumpLoan™ Program Samples submitted using the FreeSamplingBadges™ Program

Need Results By:	(surcharge)
<input checked="" type="checkbox"/> Standard	0%
<input type="checkbox"/> 4 Business Days	35%
<input type="checkbox"/> 3 Business Days	50%
<input type="checkbox"/> 2 Business Days	75%
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<input type="checkbox"/> Next Day by Noon	150%
<input type="checkbox"/> Same Day	200%

Site Name : Mount Vernon Community School Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford
 Comments :

List description of industry or Process/interferences present in sampling area : Public grade school
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 MSHA Other (specify):

Sample Identification* (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units* L, ml, min, in2, cm2, ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
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MV - Class 318	08/31/21	Sm Charcoal tubes / 226-01	42.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MV - Class 323	08/31/21	Sm Charcoal tubes / 226-01	42.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	

*Galson Laboratories will substitute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

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Chain of Custody	Print Name/Signature	Date	Time	Print Name/Signature	Date	Time
Relinquished by :	<i>[Signature]</i>	9/2/21	9:38	Received by : Derrick Johnson	9/2/21	
Relinquished by :	Derrick Johnson	9/2/21	1715	Received by : <i>[Signature]</i>		

Samples received after 3pm will be considered as next day's business
 * Required fields, failure to complete these fields may result in a delay in your samples being processed. Page 1 of 2

Sample Receipt Checklist

Project Name: ACPS IAQ Testing

PSS Project No.: 21090302

Client Name	Total Environmental Concepts - Lortc	Received By	Lynn Jackson
Disposal Date	10/07/2021	Date Received	09/02/2021 05:15:00 PM
		Delivered By	Client
		Tracking No	Not Applicable
		Logged In By	Lynn Jackson

Shipping Container(s)

No. of Coolers 0

Custody Seal(s) Intact? N/A
 Seal(s) Signed / Dated? N/A

Ice N/A
 Temp (deg C)
 Temp Blank Present No

Documentation

COC agrees with sample labels? Yes
 Chain of Custody Yes

Sampler Name Karl Ford
 MD DW Cert. No. N/A

Sample Container

Appropriate for Specified Analysis? Yes
 Intact? Yes
 Labeled and Labels Legible? Yes

Custody Seal(s) Intact? Not Applicable
 Seal(s) Signed / Dated Not Applicable

Holding Time

All Samples Received Within Holding Time(s)? Yes

Total No. of Samples Received 15
 Total No. of Containers Received 15

Preservation

Total Metals (pH<2) N/A
 Dissolved Metals, filtered within 15 minutes of collection (pH<2) N/A
 Orthophosphorus, filtered within 15 minutes of collection N/A
 Cyanides (pH>12) N/A
 Sulfide (pH>9) N/A
 TOC, DOC (field filtered), COD, Phenols (pH<2) N/A
 TOX, TKN, NH3, Total Phos (pH<2) N/A
 VOC, BTEX (VOA Vials Rcvd Preserved) (pH<2) N/A
 Do VOA vials have zero headspace? N/A
 624 VOC (Rcvd at least one unpreserved VOA vial) N/A
 524 VOC (Rcvd with trip blanks) (pH<2) N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Samples Inspected/Checklist Completed By:

N.J. Jackson

Date: 09/03/2021

Lynn Jackson

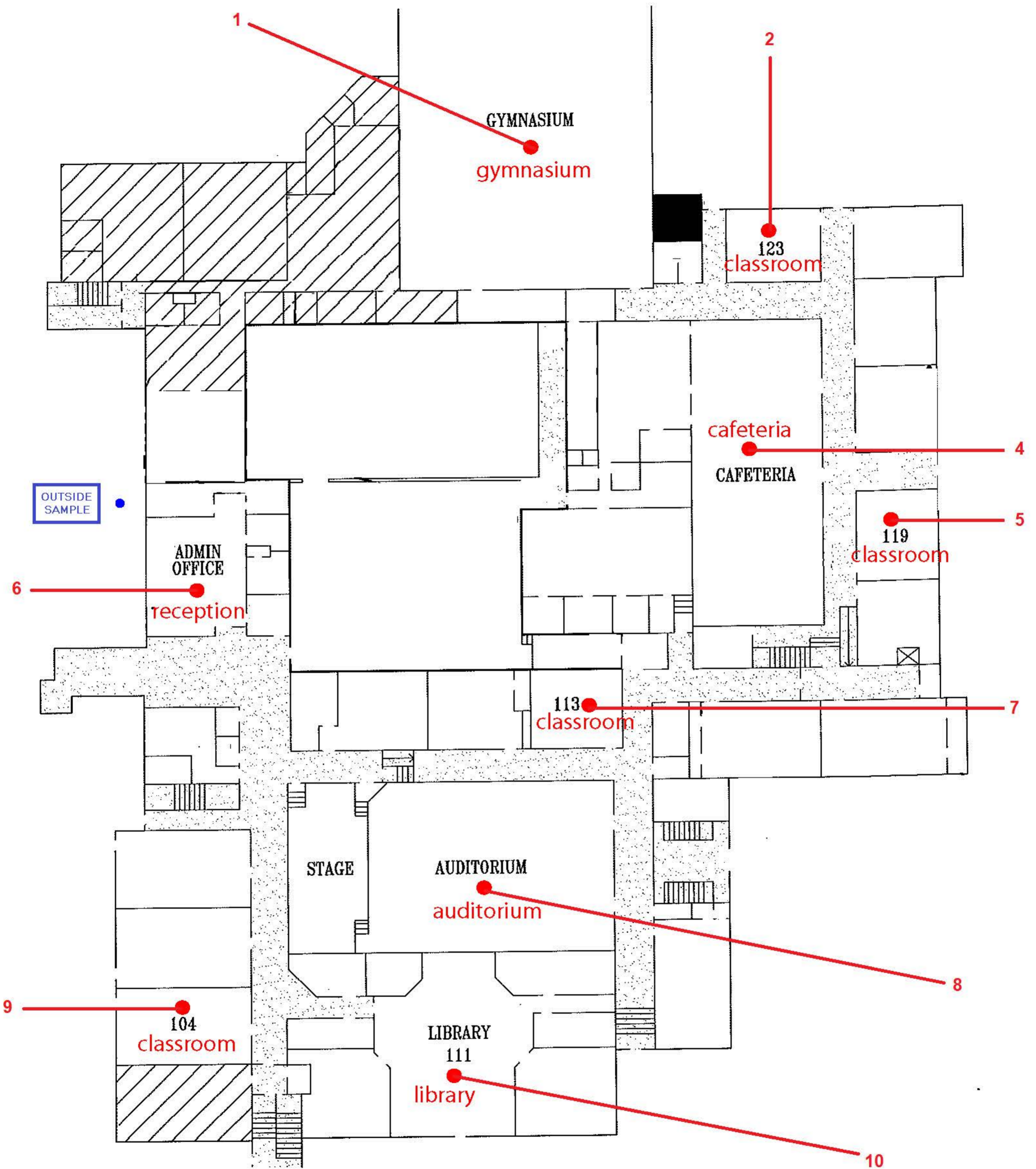
PM Review and Approval:

Amber Confer

Date: 09/07/2021

Amber Confer

Appendix F: Sampling Locations



MOUNT VERNON COMMUNITY SCHOOL

2601 Commonwealth Ave.
Alexandria, Va 22305

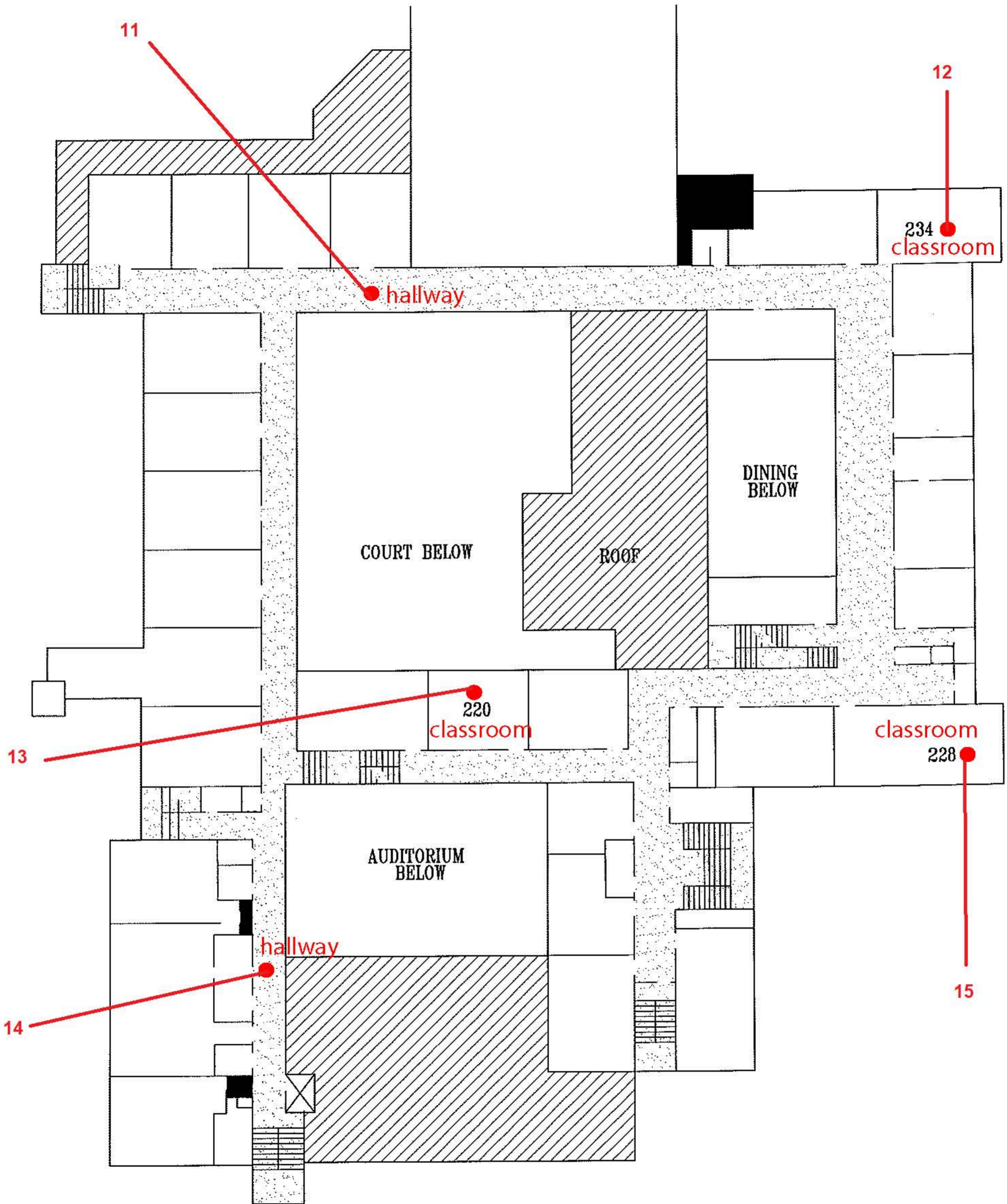
1ST FLOOR PLAN



LEGEND

- Sample Location Analyzed For:
- Mold
- Radon
- VOC's (TO+15)
- 4-polycyclohexene
- Formaldehyde

Total Environmental Concepts, Inc.
8382 Terminal Road, Suite B
Lorton, VA 22079
Phone: 703-567-4346
Fax: 703-567-3487



MOUNT VERNON COMMUNITY SCHOOL

2601 Commonwealth Ave.
Alexandria, Va 22305

2ND FLOOR PLAN

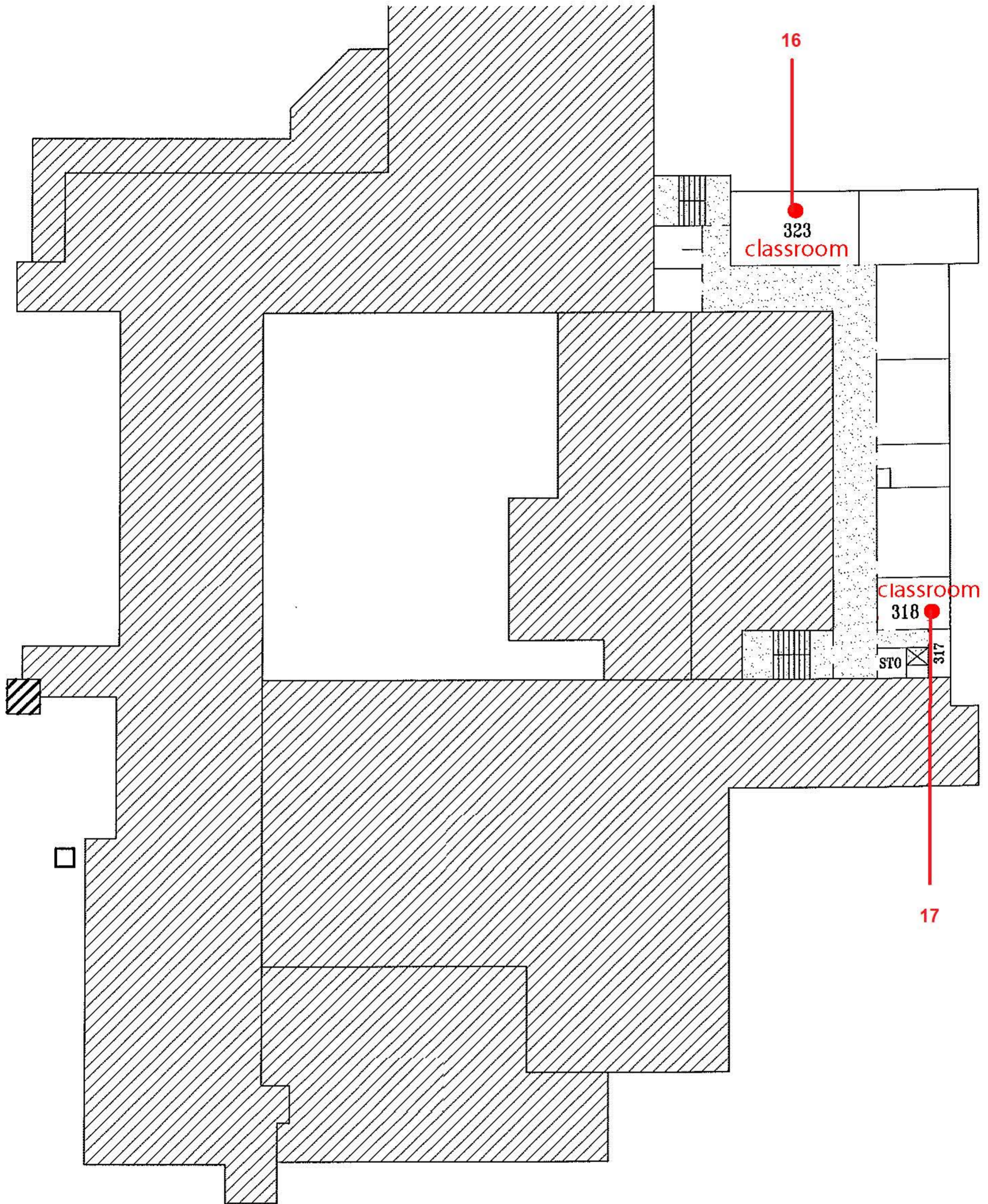


LEGEND

- Sample Location Analyzed For:
- Mold 4-polycyclohexene
- Radon Formaldehyde
- VOC's (TO+15)



8382 Terminal Road, Suite B
Lorton, VA 22079
Phone: 703-567-4346
Fax: 703-567-3487



MOUNT VERNON COMMUNITY SCHOOL

2801 Commonwealth Ave.
Alexandria, Va 22305

3RD FLOOR PLAN



LEGEND

- Sample Location Analyzed For:
- Mold 4-polycyclohexene
- Radon Formaldehyde
- VOC's (TO+15)



8382 Terminal Road, Suite B
Lorton, VA 22079
Phone: 703-567-4346
Fax: 703-567-3487

Appendix G: Photographs



Mount Vernon, Library



Mount Vernon, Cafeteria



Mount Vernon, Auditorium



Mount Vernon, Classroom



Mount Vernon, Gym



Mount Vernon, Office