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Setting the Standard in Comprehensive Environmental Solutions



Indoor Air Quality Assessment Report

at

Douglas MacArthur Elementary School 4633 Taney Avenue Alexandria, VA 22304



<u>Report Prepared for.</u> John Contreras Alexandria City Public Schools 2601 Cameron Mills Rd, Alexandria, VA 22302

Dated: October 14, 2021

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ABBREVIATIONS AND ACRONYMS

AHU AIHA	Air-Handling Unit 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 Satellie 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 MacAurthur 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 Douglas MacArthur Elementary School on Thursday, September 30, 2021. ACPS required that the testing to 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. Sampling locations were chosen by ACPS based on internal review of facilities maintenance records, and a review of facilities maintenance related issues. An additional two (2) sampling locations were added for mold sampling at the request of the client, John Contreras. 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 recommendaitons during this limited IAQ investigation:

 Mold – TEC conducted site-specific mold sampling outside at Douglas MacArthur Elementary 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 detected of Aspergillus Penicillium recorded in Classroom 1072, Classroom 1064, and in Hall 1053, were significantly higher than background outside mold spore counts. The actual number of Aspergillus Penicillium spores detected inside was relatively low. No visible mold was observed.
- 2. A mold spore ratio anomaly of Aspergillus|Penicillium was recorded in Classroom 1072, Classroom 1064, and in Hall 1053. Aspergillus|Penicillium is not commonly found indoors and grows on plants and plant material. The Aspergillus|Penicillium spores detected were likely caused by open windows and doors and normal fluctuations in outside spore counts as there was no visible mold observed anywhere. This anomaly is not a health issue.
- 3. Additional sampling was conducted in Classroom 1068 and Classroom 1075. The results were below baseline readings and did not indicate mold issues.

None of the other mold sampling results at Douglas MacArthur Elementary School were indicative of mold issues. Photographs can be found in Section 3, Visual Observations.

Recommendations:

- The Aspergillus |Penicillium spores detected above basline numbers were likely caused by open windows and doors and normal fluctuations in outside spore counts and there was no visible mold observed. The spores detected of the genus Aspergillus |Penicillium are not a health issue.
- 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.
- A detailed schedule of maintenance, for all HVAC and associated building systems, should be established, and adhered to.
- Radon levels recorded in all locations were less than 4pCi/L, as recommended by EPA and HUD.
- **VOCs** The levels of volitile organic compounds (VOCs) recorded at each location were within acceptable ranges, when 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 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 the purposes of this investigation ≤ 65%. None of the tested locations had a relative humidity greater than 65%.
- **Temperature** none of the tested spaces had a temperatures greater than the ASHRAE recommended summer range of 75°F-80.5°F.

2. Assesment 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 September 30, 2021. All air samples were collected three-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. 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 full surface area of the sampling device for the full 4 hours of sampling time. Monitors were collected after fourt (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 eight (8) hours or time weighted four (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 eight (8) hours or a time weighted run time of four (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. Teperature and relative humidity readings can be found in Section 5 Mold Sampling Results, below.

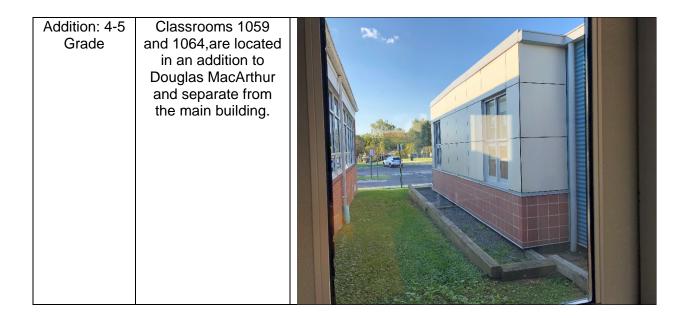
Real-time measurements for oxygen, carbon dioxide, carbon monoxide, VOC, hydrogen sulfides were taken with multi-gas detector. These measurements can be found in Section 10 Multi-gas Detector (MSA Altair Multi-gas) Readings. This information can be found in Table 1 below.



3. Visual Observations

Sample Location	September 30, 2021	Visual Observations
Media Center	TEC observed construction in the Media Center during sampling.	
Class 1072	TEC observed no visble water intrusion.	

Class 1064	TEC observed no visble water intrusion.	
Hall 1055	TEC observed no visble water intrusion.	
Addition: Kindergarden Wing	Classrooms 1064, 1068, 1072, and 1075 are located in an addition to Douglas MacArthur and separate from the main building.	



4. <u>Conditions for Human Occupancy</u>

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 from 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 the purposes of 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 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 observed to be below 65% in all locations. Average relative humidity can be found in Table 2.

4.3 Carbon Dioxide

Carbon dioxide (CO2) is a byproduct of combustion burning engines. Generators, furnaces, boilers, 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 byproduct 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.

• **Mold** – TEC conducted site-specific mold sampling outside at Douglas MacArthur Elementary 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 detected of Aspergillus Penicillium recorded in Classroom 1072, Classroom 1064, and in Hall 1053, were significantly higher than background outside mold spore counts. The actual number of Aspergillus Penicillium spores detected inside was relatively low. No visible mold was observed.
- 2. A mold spore ratio anomaly of Aspergillus|Penicillium was recorded in Classroom 1072, Classroom 1064, and in Hall 1053. Aspergillus|Penicillium is not commonly found indoors and grows on plants and plant material. The Aspergillus|Penicillium spores detected were likely caused by open windows and doors and normal fluctuations in outside spore counts as there was no visible mold observed anywhere. This anomaly is not a health issue.
- 3. Additional sampling was conducted in Classroom 1068 and Classroom 1075. The results were below baseline readings and did not indicte mold issues.

None of the other mold sampling results at Douglas MacArthur Elementary School were indicative of mold issues. Photographs can be found in Section 3, Visual Observations.

Recommendations:

- The Aspergillus |Penicillium spores detected above basline numbers were likely caused by open windows and doors and normal fluctuations in outside spore counts and there was no visible mold observed. The spores detected of the genus Aspergillus |Penicillium are not a health issue.
- 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 building foundations.
- A detailed schedule of maintenance, for all HVAC and associated building systems, should be established, and adhered to.

Mold analytical results can be found in Appendix A.

6. <u>Radon Gas Sampling Results</u>

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 breaks down. Some building materials, such as granite, may be a source of radon. Sampling areas were provided by ACPS. This did not allow for TEC to utilize the sampling protocol provided by Air Chek for performing 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 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. 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.

8. 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 E.

9. 4-PCH Sampling Results

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

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-G	as Detector Readings		
Location	VOC	СО	OXYGEN	H2S
Main Office	0.0	0.0	20.8	0.0
Gym	0.0	0.0	20.8	0.0
Media Center	0.0	0.0	20.8	0.0
Cafeteria	0.0	0.0	20.8	0.0
Class 1072	0.0	0.0	20.8	0.0
Class 1032	0.0	0.0	20.8	0.0
Hall 1035/Cafeteria	0.0	0.0	20.8	0.0
Hall 1115	0.0	0.0	20.8	0.0
Class 1117	0.0	0.0	20.8	0.0
Class 1055	0.0	0.0	20.8	0.0
Hall 1062	0.0	0.0	20.8	0.0
Class 1064	0.0	0.0	20.8	0.0
Class 1055	0.0	0.0	20.8	0.0
Hall 1055	0.0	0.0	20.8	0.0
Class 1125	0.0	0.0	20.8	0.0

Table 2

		Results of	Analytes by	Locatior	ı	
Location	Radon	Mc AVG: 75 F	old AVG: 41 %	TO+15 VOCs	4PCH	Formaldehyde
Main Office	< 4 pCi/L	Spore Cou	nt Normal	< RSL	< 6.5 ug/m3	< RSL
Gym	< 4 pCi/L	Spore Cou	nt Normal	< RSL	< 6.5 ug/m3	< RSL
Media Center	< 4 pCi/L	Spore Cou	nt Normal	< RSL	< 6.5 ug/m3	< RSL
Class 1055	< 4 pCi/L	Spore Cou	nt Normal	< RSL	< 6.5 ug/m3	< RSL
Cafeteria	< 4 pCi/L	Spore Cou	nt Normal	< RSL	< 6.5 ug/m3	< RSL
Class 1032	< 4 pCi/L	Spore Cou	nt Normal	< RSL	< 6.5 ug/m3	< RSL
Hall 1035/Cafeteria	< 4 pCi/L	Spore Cou	nt Normal	< RSL	< 6.5 ug/m3	< RSL
Hall 1115	< 4 pCi/L	Spore Cou	nt Normal	< RSL	< 6.5 ug/m3	< RSL
Class 1117	< 4 pCi/L	Spore Cou	nt Normal	< RSL	< 6.5 ug/m3	< RSL
Class 1055	< 4 pCi/L	Spore Cou	nt Normal	< RSL	< 6.5 ug/m3	< RSL
Hall 1062	< 4 pCi/L	Spore Cou	nt Normal	< RSL	< 6.5 ug/m3	< RSL
Class 1125	< 4 pCi/L	Spore Cou	nt Normal	< RSL	< 6.5 ug/m3	< RSL
Class 1064	< 4 pCi/L	*Spore Ratio	o Anomaly*	< RSL	< 6.5 ug/m3	< RSL
Hall 1055	< 4 pCi/L	*Spore Ratio Anomaly*		< RSL	< 6.5 ug/m3	< RSL
Class 1072	< 4 pCi/L	*Spore Ratio Anomaly*		< RSL	< 6.5 ug/m3	< RSL
Class 1068	< 4 pCi/L	Spore Cou	nt Normal	< RSL	< 6.5 ug/m3	< RSL
Class 1075	< 4 pCi/L	Spore Cou	nt 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 as they relate to the performance of sample collection and processing.
- To ensure compliance with QA/QC measures, 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



#21038976

Analysis Report prepared for

Total Environmental Concepts, Inc.

8382 Terminal Road Suite B Lorton, VA 22079

Phone: (571) 289-2173

4633 Taney Ave. Alexandria, VA 22304

Collected: September 30, 2021 Received: October 4, 2021 Reported: October 4, 2021 We would like to thank you for trusting Hayes Microbial for your analytical needs! We received 16 samples by FedEx in good condition for this project on October 4th, 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.

plien N. Hoyces

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



EPA Laboratory ID: VA01419



Lab ID: #188863



DPH License: #PH-0198

3005 East Boundary Terrace, Suite F. Midlothian, VA. 23112

(804) 562-3435

Lorton, VA 22079 (571) 289-2173

4633 Taney Ave. Alexandria, VA 22304

#21038976

SOP - HMC#101

Sample Number	1	4318	8798	2	4318	3808	3	4318	3792	4 4315619			
Sample Name	ſ	Main Office			Gym		Outdoor			Media Center			
Sample Volume		75.00 liter		75.00 liter			75.00 liter			75.00 liter			
Reporting Limit		13 spores/m ³	3		13 spores/m ³			13 spores/m ³			13 spores/m ³	3	
Background		3			2			2			2		
Fragments		13/m ³			ND			53/m ³			13/m ³		
		3			3			3			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 Tota	
Alternaria							2	27	<1%				
Ascospores	3	40	42.9%	2	27	66.7%	512	6827	57.4%	2	27	50.0%	
spergillus Penicillium							3	40	<1%				
Basidiospores	1	13	14.3%				224	2987	25.1%	1	13	25.0%	
Bipolaris Drechslera													
Chaetomium													
Cladosporium							128	1707	14.3%				
Curvularia	1	13	14.3%	1	13	33.3%	1	13	<1%				
Epicoccum							10	133	1.1%				
Fusarium													
Memnoniella													
Myxomycetes	2	27	28.6%				12	160	1.3%				
Pithomyces										1	13	25.0%	
Stachybotrys													
Stemphylium													
Torula													
Ulocladium													
Total	7	93	100%	3	40	100%	892	11894	100%	4	53	100%	
Water Damage Indicato	r	Commo	on Allergen		Slightly Higher	than Baseline	Signi	ficantly Higher	han Baseline		Ratio Abnormal	ity	
		Collected: Sep 3		Rece	eived: Oct 4, 202	21		Oct 4, 2021					
HAY	ES	Project Analyst: Ramesh Poluri,	Dr	James	1	Date: 10 - 04 - 202	Reviewe		Italia 1	1 Hum	Date:	4 - 2021	

3005 East Boundary Terrace, Suite F. Midlothian, VA. 23112

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Lorton, VA 22079

4633 Taney Ave. Alexandria, VA 22304

#21038976

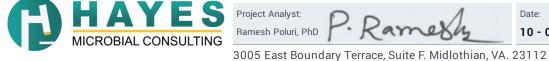
SOP - HMC#101

Sample Number	5	4315	5629	6	4315	5123	7	4315	5139	8	4315	5635	
Sample Name		Cafeteria		Ha	Hall 1035/Cafe			Class 1072			Class 1032		
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	J	
Background		2			2			3			2		
Fragments	ND			13/m ³			13/m ³			ND			
			1						1				
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 Tota	
Alternaria													
Ascospores	6	80	100.0%	1	13	7.7%	1	13	<1%	5	67	50.0%	
spergillus Penicillium				3	40	23.1%	288	3840	99.3%				
Basidiospores				1	13	7.7%				3	40	30.09	
Bipolaris Drechslera													
Chaetomium													
Cladosporium				6	80	46.2%	1	13	<1%	2	27	20.09	
Curvularia													
Epicoccum													
Fusarium													
Memnoniella													
Myxomycetes				1	13	7.7%							
Pithomyces				1	13	7.7%							
Stachybotrys													
Stemphylium													
Torula													
Ulocladium													
Total	6	80	100%	13	172	100%	290	3866	100%	10	134	1009	
Water Damage Indicato	r	Commo	n Allergen		Slightly Higher	than Baseline	Signi	ficantly Higher	than Baseline		Ratio Abnormal	ity	
		Collected: Sep 3	80. 2021	Rece	eived: Oct 4, 202	21	Reported:	Oct 4, 2021					

10 - 04 - 2021

(804) 562-3435

amerily



aus

Steve Hayes, BSMT Stephen 71.

Page: 3 of 8

10 - 04 - 2021

Lorton, VA 22079

4633 Taney Ave. Alexandria, VA 22304

#21038976

SOP - HMC#101

Sample Number	9	431	5118	10	4315	5129	11	4315	5140	12	4318	3797		
Sample Name		Hall 1055			Class 1055 75.00 liter			Hall 1115			Class 1117			
Sample Volume		75.00 liter						75.00 liter		75.00 liter				
Reporting Limit		13 spores/m ³	3		13 spores/m ³			13 spores/m ³		13 spores/m ³				
Background		2			2			2			2			
Fragments		ND			13/m ³			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 Tota		
Alternaria														
Ascospores	2	27	33.3%	3	40	42.9%	3	40	75.0%	1	13	50.0%		
pergillus Penicillium														
Basidiospores							1	13	25.0%	1	13	50.0%		
Bipolaris Drechslera														
Chaetomium														
Cladosporium	3	40	50.0%	1	13	14.3%								
Curvularia	1	13	16.7%	2	27	28.6%								
Epicoccum														
Fusarium														
Memnoniella														
Myxomycetes				1	13	14.3%								
Pithomyces														
Stachybotrys														
Stemphylium														
Torula														
Ulocladium														
Total	6	80	100%	7	93	100%	4	53	100%	2	26	100%		
Water Damage Indicato	r	Commo	on Allergen		Slightly Higher	than Baseline	Signi	ficantly Higher	han Baseline		Ratio Abnormal	ity		
		Collected: Sep 3	30, 2021	Rece	eived: Oct 4, 202	21	Reported:	Oct 4, 2021						
HAY	ES	Project Analyst: Ramesh Poluri,	Dr	2	1.	Date: 10 - 04 - 202	Reviewe		Heles		Date:			

3005 East Boundary Terrace, Suite F. Midlothian, VA. 23112

(804) 562-3435

contact@hayesmicrobial.com

Page: 4 of 8

Lorton, VA 22079

4633 Taney Ave. Alexandria, VA 22304

#21038976

Sop - HMC#101

Sample Number	13	4315	5639	14	4315	5130	15	4315	5160	16	4318	803	
Sample Name		Hall 1053		Class 1059 75.00 liter			Class 1064 75.00 liter			Class 1125			
Sample Volume		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			
Ormaniam	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 Tota	
Organism	Raw Count	Count / m	% OF TOLAT	Raw Count	Count / m	% 01 10tai	Raw Count	Count / m	% OF TOLAT	Raw Count	Count / m	% 01 1018	
Alternaria	1	13	2.3%	1	13	16.7%	2	40	7.0%	1	13	50.0%	
Ascospores spergillus Penicillium	43	573	97.7%	1	53	66.7%	3	533	93.0%	I	13	50.07	
Basidiospores	43	575	91.1%	4	55	00.7 %	40	000	93.0%				
Bipolaris Drechslera													
Chaetomium													
Cladosporium													
Curvularia													
Epicoccum													
Fusarium													
Memnoniella													
Myxomycetes				1	13	16.7%				1	13	50.09	
Pithomyces													
Stachybotrys													
Stemphylium													
Torula													
Ulocladium													
Total	44	586	100%	6	79	100%	43	573	100%	2	26	1009	
Water Damage Indicato			n Allergen		Slightly Higher			ficantly Higher			Ratio Abnormali		
				D					and baseline			-,	
	FS	Collected: Sep 3	50, 2021	Rece	eived: Oct 4, 202	Date:	Reported:	Oct 4, 2021	0, 1	a 11	Date:		

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Page: 5 of 8

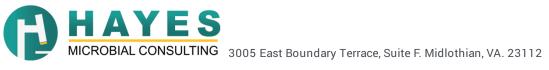
Gary Lewis	
Total Environmental Concepts, In	IC.

8382 Terminal Road Suite B Lorton, VA 22079 (571) 289-2173

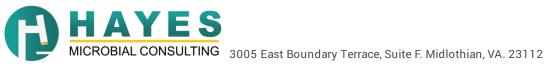
Reporting Limit	The Reporting Limit is the lowest number of spores that can be detected based on the total volume of the sample collected and the percentage of the slide that is counted. At Hayes Microbial, 100% of the slide is read so the LOD is based solely on the total volume. Raw spore counts that exceed 500 spores will be estimated.
Blanks	Results have not been corrected for field or laboratory blanks.
Background	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:
	 NBD: No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD) 1: <5% of field occluded. No spores will be uncountable. 2: 5-25% of field occluded. 3: 25-75% of field occluded. 4: 75-90% of field occluded. 5: >90% of field occluded. Suggested recollection of sample.
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.
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. Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination.
Significantly Higher than Baseline	
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 indoo 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.



Gary Lewis Total Environmental Co	oncepts, l	Ac. 4633 Taney Ave. #21038976 Alexandria, VA 22304 Alexandria, VA 22304 Alexandria, VA 22304
8382 Terminal Road Suite B Lorton, VA 22079 (571) 289-2173		Organism Descriptions
Alternaria	Habitat:	Commonly found outdoors in soil and decaying plants. Indoors, it is commonly found on window sills and other horizontal surfaces.
	Effects:	A common allergen and has been associated with hypersensitivity pneumonitis. Alternaria is capable of producing toxic metabolites which may be associated with disease in humans or animals. Occasionally an agent of onychomycosis, ulcerated cutaneous infection and chronic sinusitis, principally in the immunocompromised patient.
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.
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 desseminated infection, primarily in the immunocompromised.



	IC. 4633 Taney Ave.
	Organism Descriptions
Habitat:	It is found in soil and plant litter and is a plant pathogen. It can grow indoors on a variety of substrates, including paper and textiles and is commonly found on wet drywall.
Effects:	It is a common allergen. No cases of infection have been reported in humans.
Habitat:	Found on decaying plant material and as a plant pathogen.
Effects:	Some allergenic properties reported, but generally pose no health concerns to humans.
Habitat:	Common fungus isolated from soil, decaying plant material. Rarely found indoors.
Effects:	Allergenic properties are poorly studied. No cases of infection in humans.
	Effects: Habitat: Effects: Habitat:





#21039542

Analysis Report prepared for

Total Environmental Concepts, Inc.

8382 Terminal Road Suite B Lorton, VA 22079

Phone: (571) 289-2173

Douglas MacArthur

Collected: Received: October 6, 2021 Reported: October 6, 2021 We would like to thank you for trusting Hayes Microbial for your analytical needs! We received 3 samples by FedEx in good condition for this project on October 6th, 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.

John N. Hoyces

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



EPA Laboratory ID: VA01419







DPH License: #PH-0198

3005 East Boundary Terrace, Suite F. Midlothian, VA. 23112

(804) 562-3435

J. Reese Total Environmental Concepts, Inc.

Douglas MacArthur

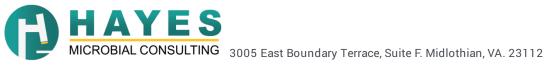
#21039542

8382 Terminal Road Suite B Lorton, VA 22079 (571) 289-2173

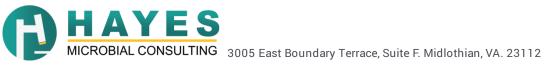
Spore Trap
SOP - HMC#101

Sample Number	1	DM-43	18813	2	DM-43	18793	3	DM-43	18812			
Sample Name	0	M - Outdoo	r	OM	I - Class 10	68	ON	I- Class 107	75			
Sample Volume		75.00 liter			75.00 liter			75.00 liter				
Reporting Limit		13 spores/m ³	1		13 spores/m ³	1		13 spores/m ³				
Background		2			2			2				
Fragments		27/m ³			ND			ND				
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total			
Alternaria	2	27	1.4%	1	13	6.3%						
Ascospores	74	987	52.9%	8	107	50.0%	4	53	66.7%			
pergillus Penicillium	14	187	10.0%	2	27	12.5%						
Basidiospores	9	120	6.4%									
Bipolaris Drechslera												
Chaetomium												
Cladosporium	34	453	24.3%	5	67	31.3%	2	27	33.3%			
Curvularia	2	27	1.4%									
Epicoccum	3	40	2.1%									
Fusarium												
Memnoniella												
Myxomycetes	2	27	1.4%									
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	140	1868	100%	16	214	100%	6	80	100%			
Total	140	1000	100%	10	214	100%	0	80	100%			
Water Damage Indicator		Commo	on Allergen		Slightly Higher	than Baseline	Signi	ficantly Higher 1	than Baseline	Rati	io Abnormali	ty
		Collected:		Rece	eived: Oct 6, 202	21	Reported:	Oct 6, 2021				
HAY MICROBIAL CO	ES	Project Analyst: Ronzo Lee,	Ronnat			Date: 10 - 06 - 202	Reviewe 21 Steve H	ed By: layes, BSMT 🏒	tephen n.	Hayes	Date: 10 - 06	- 20

J. Reese Total Environmental Concepts, Ir	tic. Douglas MacArthur #21039542
8382 Terminal Road Suite B Lorton, VA 22079 (571) 289-2173	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	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:
	 NBD: No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD) 1: <5% of field occluded. No spores will be uncountable. 2: 5-25% of field occluded. 3: 25-75% of field occluded. 4: 75-90% of field occluded. 5: >90% of field occluded. Suggested recollection of sample.
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.
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.



J. Reese Total Environmental C	Concepts, I	nc. Douglas MacArthur #210395
3382 Terminal Road Suite B _orton, VA 22079 (571) 289-2173		Organism Description
Alternaria	Habitat:	Commonly found outdoors in soil and decaying plants. Indoors, it is commonly found on window sills and other horizontal surfaces.
	Effects:	A common allergen and has been associated with hypersensitivity pneumonitis. Alternaria is capable of producing toxic metabolites which may be associated with disease in humans or animals. Occasionally an agent of onychomycosis, ulcerated cutaneous infection and chronic sinusitis, principally in the immunocompromised patient.
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.
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 desseminated infection, primarily in the immunocompromised.



J. Reese Total Environmental Co	oncepts, Ir		21039542
8382 Terminal Road Suite B Lorton, VA 22079 (571) 289-2173		Organism	Descriptions
Epicoccum	Habitat:	It is found in soil and plant litter and is a plant pathogen. It can grow indoors on a variety of substrates, including paper and textiles commonly found on wet drywall.	and is
	Effects:	It is a common allergen. No cases of infection have been reported in humans.	
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.	



-hut
Art
Mac
Spl
Doug

T: 75 = H; 41%

Mojei			Comments																					
Sample Type	Email		Pump End Time	18:22	18:36	18:33	18:51	18,54	19:04	191.07	19:13	19:20	19! 24	1 5 : 41	18:52	19:02	9.1 :61	19:26	19:30					
Maggie + Chaming	12011		Pump Start Time	16:15	18:29	18:26	18144	18:46	18:56	18:59	19:06	19:13	19:17	18:34	18:45	18:54	60:61	61361	19!23					
Placement Tech	Placement Date Address		Sampling Time	17, 5Min									_)					
	Ad		Flow Rate	W/1 Q 1	~													7)					
//	rtal 	-341	Location/ room	\sim	DM - GYM	DM - GUTCLOOT	DM -media center	DM - Cafeteria	DM - Hall 1635/ Cafe	DM-C1955 1072	DM - Class 1032	DM - Hall 1055	DM - Class 1055	DM - Hall 1115	DM - Class 1117	DM - C1955 1125	DM-Hall 1053	DM - Class 1059	DM - C1455 1064					
Toral	Environmental	roucebce, nc.	Sample #	4318799	4318808	4318792	4315619	4315629	4315123	4315139	4315635	4315118	4315129	4315140	H318797	4318803	4315639	4315130	09151817					

Appendix B: Radon Analytical Results

October 6, 2021

**** LABORATORY ANALYSIS REPORT ****

Attention:

Kit #: 9731161	Result: < 0.3 pCi/l	Analysis Note :
Location:		Analyzed : 2021-10-06 at 11:00 am Started : 2021-09-30 at 6:00 pm
Dm-1072		Ended : 2021-09-50 at 0.00 pm
,		Hours/MST% : 94 hours 11.6% 70°F
Kit #: 9731162	Result: < 0.3 pCi/l	Analysis Note :
Location:		Analyzed : 2021-10-06 at 11:00 am
Dm-Cafe 1		Started : 2021-09-30 at 6:00 pm Ended : 2021-10-04 at 4:00 pm
,		Hours/MST% : 94 hours 10.3% 70°F
Kit #: 9731163	Result: 0.5 ± 0.3 pCi/l	Analysis Note :
Location:		Analyzed : 2021-10-06 at 11:00 am
Dm-1125		Started : 2021-09-30 at 5:00 pm Ended : 2021-10-04 at 4:00 pm
,		Hours/MST% : 95 hours 11.7% 70°F
Kit #: 9731165	Result: 0.6 ± 0.3 pCi/l	Analysis Note :
Location:		Analyzed : 2021-10-06 at 11:00 am
Dm-Media Cent	er 2	Started : 2021-09-30 at 5:00 pm Ended : 2021-10-04 at 4:00 pm
,		Hours/MST% : 95 hours 9.6% 70°F
Kit #: 9731168	Result: < 0.3 pCi/l	Analysis Note :
Location:	_	Analyzed : 2021-10-06 at 11:00 am
Dm-1032		Started : 2021-09-30 at 6:00 pm Ended : 2021-10-04 at 4:00 pm
,		Hours/MST% : 94 hours 9.6% 70°F
Kit #: 9731169	Result: 0.7 ± 0.3 pCi/l	Analysis Note :
Location:		Analyzed : 2021-10-06 at 11:00 am Started : 2021-09-30 at 5:00 pm
Dm-1117		Ended : 2021-10-04 at 4:00 pm
,		Hours/MST% : 95 hours 10.3% 70°F

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

October 6, 2021

**** LABORATORY ANALYSIS REPORT ****

Attention:

Kit #: 9731171 Location: Dm-1125 B	Result: < 0.3 pCi/l	Analysis Note : Analyzed : 2021-10-06 at 11:00 am Started : 2021-09-30 at 5:00 pm Ended : 2021-10-04 at 4:00 pm Hours/MST% : 95 hours 5.2% 70°F
Kit #: 9731172 Location: Dm-1064 D ,	Result: 0.6 ± 0.3 pCi/l	Analysis Note : Analyzed : 2021-10-06 at 11:00 am Started : 2021-09-30 at 5:00 pm Ended : 2021-10-04 at 4:00 pm Hours/MST% : 95 hours 11.6% 70°F
Kit #: 9731173 Location: Dm-Media Cent	Result: < 0.3 pCi/l er 1	Analysis Note : Analyzed : 2021-10-06 at 11:00 am Started : 2021-09-30 at 5:00 pm Ended : 2021-10-04 at 4:00 pm Hours/MST% : 95 hours 7.5% 70°F
Kit #: 9731184 Location: Dm-Gym ,	Result: 0.5 ± 0.3 pCi/l	Analysis Note : Analyzed : 2021-10-06 at 11:00 am Started : 2021-09-30 at 5:00 pm Ended : 2021-10-04 at 4:00 pm Hours/MST% : 95 hours 12.3% 70°F
Kit #: 9731185 Location: Dm-1059	Result: < 0.3 pCi/l	Analysis Note : Analyzed : 2021-10-06 at 11:00 am Started : 2021-09-30 at 5:00 pm Ended : 2021-10-04 at 4:00 pm Hours/MST% : 95 hours 11.5% 70°F
Kit #: 9731186 Location: Dm-Blank	Result: ????	Analysis Note : IB2 Analyzed : 2021-10-06 at 11:00 am Started : 2021-10-04 at 5:00 pm Ended : 2021-10-04 at 5:00 pm Hours/MST% : 0 hours 9.6% 70°F

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October 6, 2021

**** LABORATORY ANALYSIS REPORT ****

Attention:

Kit #: 9731187 Location: Dm-Hall 1055	Result: < 0.3 pCi/l	Analysis Note : Analyzed : 2021-10-06 at 11:00 am Started : 2021-09-30 at 6:00 pm Ended : 2021-10-04 at 4:00 pm Hours/MST% : 94 hours 10.9% 70°F
Kit #: 9731188 Location: Dm-Gym	Result: < 0.3 pCi/l	Analysis Note : Analyzed : 2021-10-06 at 11:00 am Started : 2021-09-30 at 5:00 pm Ended : 2021-10-04 at 4:00 pm Hours/MST% : 95 hours 12.2% 70°F
Kit #: 9731189 Location: Dm-1117 D ,	Result: 0.5 ± 0.3 pCi/l	Analysis Note : Analyzed : 2021-10-06 at 11:00 am Started : 2021-09-30 at 5:00 pm Ended : 2021-10-04 at 4:00 pm Hours/MST% : 95 hours 10.9% 70°F
Kit #: 9731190 Location: Dm-Hall 1053	Result: 0.5 ± 0.3 pCi/l	Analysis Note : Analyzed : 2021-10-06 at 11:00 am Started : 2021-09-30 at 5:00 pm Ended : 2021-10-04 at 4:00 pm Hours/MST% : 95 hours 12.1% 70°F
Kit #: 9731193 Location: Dm-Cafe 2 ,	Result: < 0.3 pCi/l	Analysis Note : Analyzed : 2021-10-06 at 11:00 am Started : 2021-09-30 at 6:00 pm Ended : 2021-10-04 at 4:00 pm Hours/MST% : 94 hours 8.8% 70°F
Kit #: 9731194 Location: Dm-1055	Result: < 0.3 pCi/l	Analysis Note : Analyzed : 2021-10-06 at 11:00 am Started : 2021-09-30 at 5:00 pm Ended : 2021-10-04 at 4:00 pm Hours/MST% : 95 hours 11.7% 70°F

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October 6, 2021

**** LABORATORY ANALYSIS REPORT ****

Attention:

Kit #: 9731195 Location: Dm-Main Admin	Result: 0.7 ± 0.3 pCi/l	Analysis Note : Analyzed : 2021-10-06 at 11:00 am Started : 2021-09-30 at 5:00 pm Ended : 2021-10-04 at 4:00 pm Hours/MST% : 95 hours 8.9% 70°F
Kit #: 9731196 Location: Dm-Hall 1115 ,	Result: 0.7 ± 0.3 pCi/l	Analysis Note : Analyzed : 2021-10-06 at 11:00 am Started : 2021-09-30 at 5:00 pm Ended : 2021-10-04 at 4:00 pm Hours/MST% : 95 hours 9.7% 70°F
Kit #: 9731198 Location:	Result: 0.6 ± 0.3 pCi/l	Analysis Note : Analyzed : 2021-10-06 at 11:00 am
Dm-1064 ,		Started : 2021-09-30 at 5:00 pm Ended : 2021-10-04 at 4:00 pm Hours/MST% : 95 hours 10.9% 70°F

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

		Comment																								
	Pickup Tech Pickup Date Email	Time out																								
		Time in	-Jr.n	02.17	4:35	4:35	4'41	4¦u3	41,43	4150	4.50	5:66	4:53	4:57	S:03	5:10	2110	5:35	5,40	5:42	5;47	5,51				
	Padot	Fan Y/N	2 :	2 2	X	5	2	2	2	2	Z	N	N	2	2	2	Z	Z	2	2	2	2				
hur	Sample Type	Window Y/N	1	2 <		<u>۔</u>	2	μ	۲	٩	۲	مو	٢	2	2	٢	ىر	2	2	5	ل	2				
MacArthur	_ 5 _ 5	HVAC Y/N	- ,-		2	۲	ىر	٢	۲	ىر	ار	ىر	٨	ړ	۔د	۲	د	ىو	s	s	2	y				
Douglas 1	Margaver 7 9130 (21	SQFT >2000	2 >	ر	٦	ىــو.	Ŋ	N	2	2	Ν	Ν	2	Z	2	λ	2	2	Z	y.	۲	2				
Q	Placement Tech Placement Date Address	 Location/ room	MAL CYN	DM- Corm	DM- media Center-1	DM-media Center-2	DM-Hall 1115		DM-1117 D	DM- 1125	DM - 1125 B	DM-1059	DM - 1055	DM- Hall 1055	DM- Hall 1053	DM- 1064	DM -1064 D	DM-1072	DM-1032	pm- care-1	DM-Cafe-2	pm-Hall/cale 1035				
	Total Environmental Environmental	Sample #	DM 9721162	DM 9731184	DM 9731172	DM 9731165	DM 973 1196	DM 973 11 69	DM 9731189	DM 973 1163	DM 2731171	DM 9731185	PM 973 1194	DM 973 11 87	PM 9731190	DM 9731178	DM9731172	DM9731161	DM 1731168	DM 972-1162	2611826 WQ	D021 266 Wd				

Appendix C: VOCs (TO+15) Analytical Results



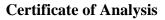
Project Name: ACPS IAQ PSS Project No.: 21100120

October 12, 2021

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

Reference: PSS Project No: **21100120** Project Name: ACPS IAQ Project Location: Douglass MacArthur Project ID.: 4920002

Dear Karl Ford:



6630 Baltimore National Pike Baltimore, MD 21228 410-747-8770 800-932-9047 www.phaseonline.com



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) **21100120**.

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 November 5, 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 PSS Project No.: 21100120

Project ID: 4920002

The following samples were received under chain of custody by Phase Separation Science (PSS) on 10/01/2021 at 05:30 pm

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
21100120-001	DM- Main Admin	AIR	09/30/21 20:05
21100120-002	DM- Gym	AIR	09/30/21 20:06
21100120-003	DM- Media Center	AIR	09/30/21 20:08
21100120-004	DM- Cafeteria	AIR	09/30/21 20:11
21100120-005	DM- Class 1072	AIR	09/30/21 20:13
21100120-006	DM- Class 1032	AIR	09/30/21 20:15
21100120-007	DM- Hall 1115	AIR	09/30/21 20:08
21100120-008	DM- Class 1117	AIR	09/30/21 20:09
21100120-009	DM- Class 1125	AIR	09/30/21 20:10
21100120-010	DM- Class 1059	AIR	09/30/21 20:12
21100120-011	DM- Hall 1061-1062	AIR	09/30/21 20:13
21100120-012	DM- Class 1064	AIR	09/30/21 20:16
21100120-013	DM- Class 1055	AIR	09/30/21 20:19
21100120-014	DM- Hall 1053	AIR	09/30/21 20:21
21100120-015	DM- Outdoor	AIR	09/30/21 19:56

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 contaminates, and part 141.3, for the secondary drinking water contaminates.
- 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

SCIENCE

Project Name: ACPS IAQ

PSS Project No.: 21100120

Standard Flags/Abbreviations:

- В A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- С Results Pending Final Confirmation.
- Е The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1. Fail
- 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.
- PSS Reporting Limit. RL
- 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 October 12, 2021

Account# 15354

Login# L548280

Dear Amber Confer:

Enclosed are the analytical results for the samples received by our laboratory on October 05, 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-Luab

Lisa Swab Laboratory Director

Enclosure(s)



ANALYTICAL REPORT

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.sgsgalson.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.sgsgalson.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

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



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	: DOUGLASS MACARTHUR	Login No. : L548280
Project No.	: ACPS IAQ TESTING	
Date Sampled	: 30-SEP-21	Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received	: 05-OCT-21	Report ID : 1269213

Galson ID: Client ID:		L548280 DM-MAIN		L548280 DM-GYM	-2	L548280-3 DM-MEDIA CENTER		
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Propylene	5.0	8.6	<5.0	<8.6	<5.0	<8.6	<5.0	<8.6
Freon-12	0.80	4.0	<0.80	<4.0	1.6	8.0	<0.80	<4.0
Chloromethane	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Freon-114	0.80	5.6	<0.80	<5.6	<0.80	<5.6	<0.80	<5.6
Vinyl Chloride	0.80	2.0	<0.80	<2.0	<0.80	<2.0	<0.80	<2.0
1,3-Butadiene	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
n-Butane	0.80	1.9	1.1	2.6	<0.80	<1.9	1.2	2.7
Bromomethane	0.80	3.1	<0.80	<3.1	<0.80	<3.1	<0.80	<3.1
Chloroethane	0.80	2.1	<0.80	<2.1	<0.80	<2.1	<0.80	<2.1
Acetonitrile	5.0	8.4	<5.0	<8.4	<5.0	<8.4	<5.0	<8.4
Vinyl Bromide	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Acrolein	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
Acetone	5.0	12	17	40	8.6	21	15	35
		/]						
Analytical Method: mod. Collection Media : Mini Submitted by : SAP		/mod. EPA TOl	5; GC/MS	Approved by Date	y : JMR : 12-OCT-21	-	visor: BLD	



	Client	: Phase Separation Science, Inc. Account No.: 15354	
6601 Kirkville Road	Site	: DOUGLASS MACARTHUR Login No. : L548280	
East Syracuse, NY 13057	Project No.	: ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	: 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-2	L
FAX: (315) 437-0571	Date Received	: 05-OCT-21 Report ID : 1269213	
www.sgsgalson.com			

TO15 List

Galson ID: Client ID:				-1 ADMIN	L548280 DM-GYM	-2	L548280-3 DM-MEDIA CENTER		
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	
Freon-11	0.80	4.5	<0.80	<4.5	<0.80	<4.5	<0.80	<4.5	
Isopropyl Alcohol	5.0	12	63	160	23	57	51	130	
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7	
Pentane	0.80	2.4	4.7	14	2.1	6.2	2.3	6.8	
Ethyl Bromide	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6	
1,1-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2	
tert-Butyl Alcohol	5.0	15	<5.0	<15	<5.0	<15	<5.0	<15	
Methylene Chloride	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8	
Freon-113	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1	
Carbon Disulfide	5.0	16	<5.0	<16	<5.0	<16	<5.0	<16	
Allyl Chloride	0.80	2.5	<0.80	<2.5	<0.80	<2.5	<0.80	<2.5	
rans-1,2-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2	
1,1-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2	

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS	Supervisor: BLD
Collection Media : Mini Can	Approved by : JMR
Submitted by : SAP	Date : 12-OCT-21



	Client	: Phase Separation Science, Inc. Account No.: 15354	
6601 Kirkville Road	Site	: DOUGLASS MACARTHUR Login No. : L548280	
East Syracuse, NY 13057	Project No.	: ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	: 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-2	L
FAX: (315) 437-0571	Date Received	: 05-OCT-21 Report ID : 1269213	
www.sgsgalson.com			

Galson ID: Client ID:				L548280-1 DM-MAIN ADMIN		L548280-2 DM-GYM		L548280-3 DM-MEDIA CENTER	
	LOQ pbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	
Methyl tert-Butyl Ether	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9	
Vinyl Acetate	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8	
Methyl Ethyl Ketone	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4	
cis-1,2-Dichloroethylene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2	
Hexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8	
Ethyl Acetate	0.80	2.9	1.0	3.6	<0.80	<2.9	<0.80	<2.9	
Chloroform	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9	
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4	
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2	
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4	
Benzene	0.80	2.6	<0.80	<2.6	<0.80	<2.6	<0.80	<2.6	
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<0.80	<5.0	<0.80	<5.0	
Cyclohexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8	

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS	Supervisor: BLD
Collection Media : Mini Can	Approved by : JMR
Submitted by : SAP	Date : 12-0CT-21

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Version 1.000
```



	Client	: Phase Separation Science, Inc. Account No.: 15354	
6601 Kirkville Road	Site	: DOUGLASS MACARTHUR Login No. : L548280	
East Syracuse, NY 13057	Project No.	: ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	: 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-2	:1
FAX: (315) 437-0571	Date Received	: 05-OCT-21 Report ID : 1269213	
www.sgsgalson.com			

TO15 List

Galson ID: Client ID:			L548280-1 DM-MAIN ADMIN		L548280-2 DM-GYM		-3 A CENTER	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Bromodichloromethane	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
1,4-Dioxane	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Trichloroethylene	0.80	4.3	<0.80	<4.3	<0.80	<4.3	<0.80	<4.3
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Methyl Methacrylate	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Heptane	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Toluene	0.80	3.0	1.0	3.9	1.1	4.0	<0.80	<3.0
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS	Supervisor: BLD
Collection Media : Mini Can	Approved by : JMR
Submitted by : SAP	Date : 12-OCT-21

```
Version 1.000
```



	Client	: Phase Separation Science, Inc.	Account No.: 15354
6601 Kirkville Road	Site	: DOUGLASS MACARTHUR	Login No. : L548280
East Syracuse, NY 13057	Project No.	: ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	: 30-SEP-21	Date Analyzed : 11-OCT-21 - 12-OCT-21
FAX: (315) 437-0571	Date Received	: 05-OCT-21	Report ID : 1269213
www.sgsgalson.com			

Galson ID: Client ID:			L548280-1 DM-MAIN ADMIN		L548280-2 DM-GYM		L548280-3 DM-MEDIA CENTER	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Dibromochloromethane	0.80	6.8	<0.80	<6.8	<0.80	<6.8	<0.80	<6.8
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Tetrachloroethylene	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
Chlorobenzene	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Ethylbenzene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
m & p-Xylene	1.6	6.9	<1.6	<6.9	<1.6	<6.9	<1.6	<6.9
Bromoform	0.80	8.3	<0.80	<8.3	<0.80	<8.3	<0.80	<8.3
Styrene	0.80	3.4	<0.80	<3.4	<0.80	<3.4	<0.80	<3.4
1,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5	<0.80	<5.5	<0.80	<5.5
o-Xylene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Nonane	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2
Cumene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
2-Chlorotoluene	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS	Supervisor: BLD
Collection Media : Mini Can	Approved by : JMR
Submitted by : SAP	Date : 12-OCT-21



	Client	: Phase Separation Science, Inc. Account No.: 15354	
6601 Kirkville Road	Site	: DOUGLASS MACARTHUR Login No. : L548280	
East Syracuse, NY 13057	Project No.	: ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	: 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-00	CT-21
FAX: (315) 437-0571	Date Received	: 05-OCT-21 Report ID : 1269213	
www.sgsgalson.com			

Galson ID: Client ID:			L548280 DM-MAIN		L548280 DM-GYM	-2	L548280 DM-MEDI	-3 A CENTER
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
n-Propylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
4-Ethyltoluene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Benzyl Chloride	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
Naphthalene	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS	Supervisor: BLD
Collection Media : Mini Can	Approved by : JMR
Submitted by : SAP	Date : 12-0CT-21



	Client	:	Phase Separation Science, Inc.	Account No.: 15354
6601 Kirkville Road	Site	:	DOUGLASS MACARTHUR	Login No. : L548280
East Syracuse, NY 13057	Project No.	:	ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	:	30-SEP-21	Date Analyzed : 11-0CT-21 - 12-0CT-21
FAX: (315) 437-0571	Date Received	:	: 05-OCT-21	Report ID : 1269213
www.sgsgalson.com				

TO15 List

Galson ID: Client ID:				L548280-4 DM-CAFETERIA		L548280-5 DM-CLASS 1072		L548280-6 DM-CLASS 1032		
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3		
Propylene	5.0	8.6	7.0	12	<5.0	<8.6	<5.0	<8.6		
Freon-12	0.80	4.0	<0.80	<4.0	<0.80	<4.0	<0.80	<4.0		
Chloromethane	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7		
Freon-114	0.80	5.6	<0.80	<5.6	<0.80	<5.6	<0.80	<5.6		
Vinyl Chloride	0.80	2.0	<0.80	<2.0	<0.80	<2.0	<0.80	<2.0		
1,3-Butadiene	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8		
n-Butane	0.80	1.9	2.3	5.5	1.7	4.1	<0.80	<1.9		
Bromomethane	0.80	3.1	<0.80	<3.1	<0.80	<3.1	<0.80	<3.1		
Chloroethane	0.80	2.1	<0.80	<2.1	<0.80	<2.1	<0.80	<2.1		
Acetonitrile	5.0	8.4	<5.0	<8.4	<5.0	<8.4	<5.0	<8.4		
Vinyl Bromide	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5		
Acrolein	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8		
Acetone	5.0	12	13	30	14	32	11	27		

Collection Media		Approved b	Y · JMR
Submitted by	: SAP	Date	: 12-OCT-21



	Client	: Phase Separation Science, Inc. Account No.: 15354	
6601 Kirkville Road	Site	: DOUGLASS MACARTHUR Login No. : L548280	
East Syracuse, NY 13057	Project No.	: ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	: 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-2	:1
FAX: (315) 437-0571	Date Received	: 05-OCT-21 Report ID : 1269213	
www.sgsgalson.com			

TO15 List

Galson ID: Client ID:			L548280-4 DM-CAFETERIA		L548280-5 DM-CLASS 1072		L548280-6 DM-CLASS 1032		
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	
Freon-11	0.80	4.5	<0.80	<4.5	<0.80	<4.5	<0.80	<4.5	
Isopropyl Alcohol	5.0	12	30	74	13	33	30	73	
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7	
Pentane	0.80	2.4	3.2	9.4	1.8	5.2	3.2	9.4	
Ethyl Bromide	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6	
1,1-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2	
tert-Butyl Alcohol	5.0	15	<5.0	<15	<5.0	<15	<5.0	<15	
Methylene Chloride	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8	
Freon-113	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1	
Carbon Disulfide	5.0	16	<5.0	<16	<5.0	<16	<5.0	<16	
Allyl Chloride	0.80	2.5	<0.80	<2.5	<0.80	<2.5	<0.80	<2.5	
trans-1,2-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2	
1,1-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2	

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS	Supervisor: BLD
Collection Media : Mini Can	Approved by : JMR
Submitted by : SAP	Date : 12-OCT-21



	Client	:	Phase Separation Science, Inc.	Account No.: 15354
6601 Kirkville Road	Site	:	DOUGLASS MACARTHUR	Login No. : L548280
East Syracuse, NY 13057	Project No.	:	ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	:	30-SEP-21	Date Analyzed : 11-0CT-21 - 12-0CT-21
FAX: (315) 437-0571	Date Received	:	: 05-OCT-21	Report ID : 1269213
www.sgsgalson.com				

Galson ID: Client ID:			L548280-4 DM-CAFETERIA		L548280-5 DM-CLASS 1072		L548280-6 DM-CLASS 1032	
	LOQ vdqq	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Methyl tert-Butyl Ether	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Vinyl Acetate	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Methyl Ethyl Ketone	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4
cis-1,2-Dichloroethylene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
Hexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Ethyl Acetate	0.80	2.9	1.3	4.8	<0.80	<2.9	<0.80	<2.9
Chloroform	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Benzene	0.80	2.6	<0.80	<2.6	<0.80	<2.6	<0.80	<2.6
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<0.80	<5.0	<0.80	<5.0
Cyclohexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS	Supervisor: BLD
Collection Media : Mini Can	Approved by : JMR
Submitted by : SAP	Date : 12-0CT-21



	Client	: Phase Separation Science, Inc.	Account No.: 15354
6601 Kirkville Road	Site	: DOUGLASS MACARTHUR	Login No. : L548280
East Syracuse, NY 13057	Project No.	: ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	: 30-SEP-21	Date Analyzed : 11-0CT-21 - 12-0CT-21
FAX: (315) 437-0571	Date Received	: 05-OCT-21	Report ID : 1269213
www.sgsgalson.com			

Galson ID: Client ID:			L548280-4 DM-CAFETERIA		L548280-5 DM-CLASS 1072		-6 S 1032	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Bromodichloromethane	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
1,4-Dioxane	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Trichloroethylene	0.80	4.3	<0.80	<4.3	<0.80	<4.3	<0.80	<4.3
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Methyl Methacrylate	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Heptane	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Toluene	0.80	3.0	<0.80	<3.0	<0.80	<3.0	0.90	3.5
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS	Supervisor: BLD
Collection Media : Mini Can	Approved by : JMR
Submitted by : SAP	Date : 12-OCT-21



	Client	: Phase Separation Science, Inc.	Account No.: 15354
6601 Kirkville Road	Site	: DOUGLASS MACARTHUR	Login No. : L548280
East Syracuse, NY 13057	Project No.	: ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	: 30-SEP-21	Date Analyzed : 11-OCT-21 - 12-OCT-21
FAX: (315) 437-0571	Date Received	: 05-OCT-21	Report ID : 1269213
www.sgsgalson.com			

Galson ID: Client ID:			L548280 DM-CAFE		L548280 DM-CLAS	-	L548280 DM-CLAS	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Dibromochloromethane	0.80	6.8	<0.80	<6.8	<0.80	<6.8	<0.80	<6.8
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Tetrachloroethylene	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
Chlorobenzene	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Ethylbenzene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
n & p-Xylene	1.6	6.9	<1.6	<6.9	<1.6	<6.9	<1.6	<6.9
Bromoform	0.80	8.3	<0.80	<8.3	<0.80	<8.3	<0.80	<8.3
Styrene	0.80	3.4	<0.80	<3.4	<0.80	<3.4	<0.80	<3.4
.,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5	<0.80	<5.5	<0.80	<5.5
-Xylene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Jonane	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2
Cumene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
2-Chlorotoluene	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS	Supervisor: BLD
Collection Media : Mini Can	Approved by : JMR
Submitted by : SAP	Date : 12-OCT-21



	Client	:	Phase Separation Science, Inc.	Account No.: 15354
6601 Kirkville Road	Site	:	DOUGLASS MACARTHUR	Login No. : L548280
East Syracuse, NY 13057	Project No.	:	ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	:	30-SEP-21	Date Analyzed : 11-0CT-21 - 12-0CT-21
FAX: (315) 437-0571	Date Received	:	: 05-OCT-21	Report ID : 1269213
www.sgsgalson.com				

Galson ID: Client ID:			L548280-4 DM-CAFETERIA		L548280 DM-CLAS	-		L548280-6 DM-CLASS 1032	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	
n-Propylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9	
4-Ethyltoluene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9	
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9	
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9	
Benzyl Chloride	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1	
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8	
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8	
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8	
Naphthalene	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2	

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS	Supervisor: BLD
Collection Media : Mini Can	Approved by : JMR
Submitted by : SAP	Date : 12-OCT-21



	Client	: Phase Separation Science, Inc. Account No.: 15354	
6601 Kirkville Road	Site	: DOUGLASS MACARTHUR Login No. : L548280	
East Syracuse, NY 13057	Project No.	: ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	: 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT	-21
FAX: (315) 437-0571	Date Received	: 05-OCT-21 Report ID : 1269213	
www.sgsgalson.com			

TO15 List

Submitted by

: SAP

Galson ID: Client ID:					L548280-7 L548280- DM-HALL 1115 DM-CLASS		L548280 DM-CLAS	30-9 ASS 1125	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	
Propylene	5.0	8.6	<5.0	<8.6	<5.0	<8.6	<5.0	<8.6	
Freon-12	0.80	4.0	<0.80	<4.0	<0.80	<4.0	<0.80	<4.0	
Chloromethane	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7	
Freon-114	0.80	5.6	<0.80	<5.6	<0.80	<5.6	<0.80	<5.6	
Vinyl Chloride	0.80	2.0	<0.80	<2.0	<0.80	<2.0	<0.80	<2.0	
1,3-Butadiene	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8	
n-Butane	0.80	1.9	<0.80	<1.9	<0.80	<1.9	<0.80	<1.9	
Bromomethane	0.80	3.1	<0.80	<3.1	<0.80	<3.1	<0.80	<3.1	
Chloroethane	0.80	2.1	<0.80	<2.1	<0.80	<2.1	<0.80	<2.1	
Acetonitrile	5.0	8.4	<5.0	<8.4	<5.0	<8.4	<5.0	<8.4	
Vinyl Bromide	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5	
Acrolein	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8	
Acetone	5.0	12	15	36	16	39	9.5	23	

Date

: 12-OCT-21



	Client	: Phase Separation Science, Inc.	Account No.: 15354
6601 Kirkville Road	Site	: DOUGLASS MACARTHUR	Login No. : L548280
East Syracuse, NY 13057	Project No.	: ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	: 30-SEP-21	Date Analyzed : 11-OCT-21 - 12-OCT-21
FAX: (315) 437-0571	Date Received	: 05-OCT-21	Report ID : 1269213
www.sgsgalson.com			

TO15 List

	LOQ					S 1117		S 1125
	opbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Freon-11 0	0.80	4.5	<0.80	<4.5	<0.80	<4.5	<0.80	<4.5
Isopropyl Alcohol 5	5.0	12	57	140	69	170	33	81
Acrylonitrile 0	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Pentane 0	0.80	2.4	7.9	23	7.4	22	5.9	17
Ethyl Bromide 0	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1-Dichloroethene 0	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
tert-Butyl Alcohol 5	5.0	15	<5.0	<15	<5.0	<15	<5.0	<15
Methylene Chloride 0	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Freon-113 0	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Carbon Disulfide 5	5.0	16	<5.0	<16	<5.0	<16	<5.0	<16
Allyl Chloride 0	0.80	2.5	<0.80	<2.5	<0.80	<2.5	<0.80	<2.5
trans-1,2-Dichloroethene 0	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1-Dichloroethane 0	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS	Supervisor: BLD
Collection Media : Mini Can	Approved by : JMR
Submitted by : SAP	Date : 12-OCT-21

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	Client	: Phase Separation Science, Inc.	Account No.: 15354
6601 Kirkville Road	Site	: DOUGLASS MACARTHUR	Login No. : L548280
East Syracuse, NY 13057	Project No.	: ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	: 30-SEP-21	Date Analyzed : 11-0CT-21 - 12-0CT-21
FAX: (315) 437-0571	Date Received	: 05-OCT-21	Report ID : 1269213
www.sgsgalson.com			

Galson ID: Client ID:				L548280-7 DM-HALL 1115		L548280-8 DM-CLASS 1117		L548280-9 DM-CLASS 1125	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	
Methyl tert-Butyl Ether	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9	
Vinyl Acetate	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8	
Methyl Ethyl Ketone	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4	
cis-1,2-Dichloroethylene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2	
Hexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8	
Ethyl Acetate	0.80	2.9	1.1	3.8	1.0	3.7	<0.80	<2.9	
Chloroform	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9	
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4	
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2	
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4	
Benzene	0.80	2.6	<0.80	<2.6	<0.80	<2.6	<0.80	<2.6	
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<0.80	<5.0	<0.80	<5.0	
Cyclohexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8	

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS	Supervisor: BLD
Collection Media : Mini Can	Approved by : JMR
Submitted by : SAP	Date : 12-0CT-21



	Client	:	Phase Separation Science, Inc.	Account No.: 15354
6601 Kirkville Road	Site	:	DOUGLASS MACARTHUR	Login No. : L548280
East Syracuse, NY 13057	Project No.	:	ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	:	30-SEP-21	Date Analyzed : 11-0CT-21 - 12-0CT-21
FAX: (315) 437-0571	Date Received	:	: 05-OCT-21	Report ID : 1269213
www.sgsgalson.com				

Galson ID: Client ID:				L548280-7 DM-HALL 1115		L548280-8 DM-CLASS 1117		L548280-9 DM-CLASS 1125		
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3		
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7		
Bromodichloromethane	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4		
1,4-Dioxane	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9		
Trichloroethylene	0.80	4.3	<0.80	<4.3	<0.80	<4.3	<0.80	<4.3		
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7		
Methyl Methacrylate	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3		
Heptane	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3		
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6		
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6		
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4		
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3		
Toluene	0.80	3.0	0.90	3.3	0.90	3.2	1.3	5.0		
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3		

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS	Supervisor: BLD
Collection Media : Mini Can	Approved by : JMR
Submitted by : SAP	Date : 12-0CT-21



	Client	:	Phase Separation Science, Inc.	Account No.: 15354
6601 Kirkville Road	Site	:	DOUGLASS MACARTHUR	Login No. : L548280
East Syracuse, NY 13057	Project No.	:	ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	:	30-SEP-21	Date Analyzed : 11-OCT-21 - 12-OCT-21
FAX: (315) 437-0571	Date Received	:	: 05-OCT-21	Report ID : 1269213
www.sgsgalson.com				

TO15 List

Galson ID: Client ID:				L548280-7 DM-HALL 1115		L548280-8 DM-CLASS 1117		L548280-9 DM-CLASS 1125		
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3		
Dibromochloromethane	0.80	6.8	<0.80	<6.8	<0.80	<6.8	<0.80	<6.8		
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1		
Tetrachloroethylene	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4		
Chlorobenzene	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7		
Ethylbenzene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5		
n & p-Xylene	1.6	6.9	<1.6	<6.9	<1.6	<6.9	<1.6	<6.9		
Bromoform	0.80	8.3	<0.80	<8.3	<0.80	<8.3	<0.80	<8.3		
Styrene	0.80	3.4	<0.80	<3.4	<0.80	<3.4	<0.80	<3.4		
1,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5	<0.80	<5.5	<0.80	<5.5		
o-Xylene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5		
Nonane	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2		
Cumene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9		
2-Chlorotoluene	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1		

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS	Supervisor: BLD
Collection Media : Mini Can	Approved by : JMR
Submitted by : SAP	Date : 12-OCT-21

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	Client	: Phase Separation Science, Inc.	Account No.: 15354
6601 Kirkville Road	Site	: DOUGLASS MACARTHUR	Login No. : L548280
East Syracuse, NY 13057	Project No.	: ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	: 30-SEP-21	Date Analyzed : 11-0CT-21 - 12-0CT-21
FAX: (315) 437-0571	Date Received	: 05-OCT-21	Report ID : 1269213
www.sgsgalson.com			

Galson ID: Client ID:				L548280-7 DM-HALL 1115		L548280-8 DM-CLASS 1117		L548280-9 DM-CLASS 1125	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	
n-Propylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9	
4-Ethyltoluene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9	
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9	
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9	
Benzyl Chloride	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1	
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8	
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8	
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8	
Naphthalene	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2	

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS	Supervisor: BLD
Collection Media : Mini Can	Approved by : JMR
Submitted by : SAP	Date : 12-0CT-21



	Client	: Phase Separation Science, Inc.	Account No.: 15354
6601 Kirkville Road	Site	: DOUGLASS MACARTHUR	Login No. : L548280
East Syracuse, NY 13057	Project No.	: ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	: 30-SEP-21	Date Analyzed : 11-OCT-21 - 12-OCT-21
FAX: (315) 437-0571	Date Received	d : 05-OCT-21	Report ID : 1269213
www.sgsgalson.com			

TO15 List

Submitted by

: SAP

Galson ID: Client ID:				548280-10 L548280-1 4-CLASS 1059 DM-HALL 1		-11 1061-1063		
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Propylene	5.0	8.6	<5.0	<8.6	<5.0	<8.6	<5.0	<8.6
Freon-12	0.80	4.0	<0.80	<4.0	<0.80	<4.0	<0.80	<4.0
Chloromethane	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Freon-114	0.80	5.6	<0.80	<5.6	<0.80	<5.б	<0.80	<5.6
Vinyl Chloride	0.80	2.0	<0.80	<2.0	<0.80	<2.0	<0.80	<2.0
l,3-Butadiene	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
n-Butane	0.80	1.9	<0.80	<1.9	<0.80	<1.9	<0.80	<1.9
Bromomethane	0.80	3.1	<0.80	<3.1	<0.80	<3.1	<0.80	<3.1
Chloroethane	0.80	2.1	<0.80	<2.1	<0.80	<2.1	<0.80	<2.1
Acetonitrile	5.0	8.4	<5.0	<8.4	<5.0	<8.4	<5.0	<8.4
/inyl Bromide	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Acrolein	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
Acetone	5.0	12	25	58	19	46	20	47

Date

: 12-OCT-21



	Client	: Phase Separation Science, Inc. Account No.: 15354	
6601 Kirkville Road	Site	: DOUGLASS MACARTHUR Login No. : L548280	
East Syracuse, NY 13057	Project No.	: ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	: 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-	-21
FAX: (315) 437-0571	Date Received	: 05-OCT-21 Report ID : 1269213	
www.sgsgalson.com			

TO15 List

Galson ID: Client ID:				L548280-10 DM-CLASS 1059		L548280-11 DM-HALL 1061-1063		L548280-12 DM-CLASS 1064		
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3		
Freon-11	0.80	4.5	<0.80	<4.5	<0.80	<4.5	<0.80	<4.5		
Isopropyl Alcohol	5.0	12	72	180	55	140	51	120		
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7		
Pentane	0.80	2.4	28	83	23	69	24	70		
Ethyl Bromide	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6		
1,1-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2		
tert-Butyl Alcohol	5.0	15	<5.0	<15	<5.0	<15	<5.0	<15		
Methylene Chloride	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8		
Freon-113	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1		
Carbon Disulfide	5.0	16	<5.0	<16	<5.0	<16	<5.0	<16		
Allyl Chloride	0.80	2.5	<0.80	<2.5	<0.80	<2.5	<0.80	<2.5		
trans-1,2-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2		
1,1-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2		

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS	Supervisor: BLD
Collection Media : Mini Can	Approved by : JMR
Submitted by : SAP	Date : 12-OCT-21



	Client	: Phase Separation Science, Inc.	Account No.: 15354
6601 Kirkville Road	Site	: DOUGLASS MACARTHUR	Login No. : L548280
East Syracuse, NY 13057	Project No.	: ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	: 30-SEP-21	Date Analyzed : 11-OCT-21 - 12-OCT-21
FAX: (315) 437-0571	Date Received	: 05-OCT-21	Report ID : 1269213
www.sgsgalson.com			

Galson ID: Client ID:			L548280-10 DM-CLASS 1059			L548280-11 DM-HALL 1061-1063		-12 S 1064
	LOQ vdqq	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Methyl tert-Butyl Ether	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Vinyl Acetate	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Methyl Ethyl Ketone	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4
cis-1,2-Dichloroethylene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
Hexane	0.80	2.8	0.80	3.0	<0.80	<2.8	<0.80	<2.8
Ethyl Acetate	0.80	2.9	1.9	6.8	<0.80	<2.9	0.80	3.0
Chloroform	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Benzene	0.80	2.6	<0.80	<2.6	<0.80	<2.6	<0.80	<2.6
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<0.80	<5.0	<0.80	<5.0
Cyclohexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8

Analytical Metho	d: mod. OSHA PV212	0/mod. EPA TO15; GC/MS			Supervisor: BLD
Collection Media	i : Mini Can		Approved by	: JMR	
Submitted by	: SAP		Date	: 12-OCT-21	



	Client	:	Phase Separation Science, Inc.	Account No.: 15354
6601 Kirkville Road	Site	:	DOUGLASS MACARTHUR	Login No. : L548280
East Syracuse, NY 13057	Project No.	:	ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	:	30-SEP-21	Date Analyzed : 11-0CT-21 - 12-0CT-21
FAX: (315) 437-0571	Date Received	:	: 05-OCT-21	Report ID : 1269213
www.sgsgalson.com				

TO15 List

Galson ID: Client ID:				L548280-10 DM-CLASS 1059		L548280-11 DM-HALL 1061-1063		-12 S 1064
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Bromodichloromethane	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
1,4-Dioxane	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Trichloroethylene	0.80	4.3	<0.80	<4.3	<0.80	<4.3	<0.80	<4.3
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Methyl Methacrylate	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Heptane	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Toluene	0.80	3.0	1.3	4.7	0.90	3.4	1.0	3.9
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS	Supervisor: BLD
Collection Media : Mini Can	Approved by : JMR
Submitted by : SAP	Date : 12-OCT-21



	Client	:	Phase Separation Science, Inc.	Account No.: 15354
6601 Kirkville Road	Site	:	DOUGLASS MACARTHUR	Login No. : L548280
East Syracuse, NY 13057	Project No.	:	ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	:	30-SEP-21	Date Analyzed : 11-0CT-21 - 12-0CT-21
FAX: (315) 437-0571	Date Received	:	: 05-OCT-21	Report ID : 1269213
www.sgsgalson.com				

Galson ID: Client ID:				L548280-10 DM-CLASS 1059		L548280-11 DM-HALL 1061-1063		L548280-12 DM-CLASS 1064		
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3		
Dibromochloromethane	0.80	6.8	<0.80	<6.8	<0.80	<6.8	<0.80	<6.8		
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1		
Tetrachloroethylene	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4		
Chlorobenzene	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7		
Ethylbenzene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5		
m & p-Xylene	1.6	6.9	<1.6	<6.9	<1.6	<6.9	<1.6	<6.9		
Bromoform	0.80	8.3	<0.80	<8.3	<0.80	<8.3	<0.80	<8.3		
Styrene	0.80	3.4	<0.80	<3.4	<0.80	<3.4	<0.80	<3.4		
1,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5	<0.80	<5.5	<0.80	<5.5		
o-Xylene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5		
Nonane	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2		
Cumene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9		
2-Chlorotoluene	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1		

Analytical Metho	d: mod. OSHA PV2120/mod. EPA TO15; GC/MS	Supervisor: BLD
Collection Media	: Mini Can	Approved by : JMR
Submitted by	: SAP	Date : 12-OCT-21



	Client	: Phase Separation Science, Inc.	Account No.: 15354
6601 Kirkville Road	Site	: DOUGLASS MACARTHUR	Login No. : L548280
East Syracuse, NY 13057	Project No.	: ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	: 30-SEP-21	Date Analyzed : 11-OCT-21 - 12-OCT-21
FAX: (315) 437-0571	Date Received	: 05-OCT-21	Report ID : 1269213
www.sgsgalson.com			

TO15 List

Galson ID: Client ID:			L548280-10 DM-CLASS 1059			L548280-11 DM-HALL 1061-1063		0-12 SS 1064
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
n-Propylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
4-Ethyltoluene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Benzyl Chloride	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
Naphthalene	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS	Supervisor: BLD
Collection Media : Mini Can	Approved by : JMR
Submitted by : SAP	Date : 12-OCT-21

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Version 1.000



	Client	:	Phase Separation Science, Inc.	Account No.: 15354
6601 Kirkville Road	Site	:	DOUGLASS MACARTHUR	Login No. : L548280
East Syracuse, NY 13057	Project No.	:	ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	:	30-SEP-21	Date Analyzed : 11-OCT-21 - 12-OCT-21
FAX: (315) 437-0571	Date Received	:	05-OCT-21	Report ID : 1269213
www.sgsgalson.com				

TO15 List

Submitted by

: SAP

Galson ID: Client ID:		L548280 DM-CLAS		3280-13 L548280-14 CLASS 1055 DM-HALL 1053			L548280-15 DM-OUTDOOR	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Propylene	5.0	8.6	<5.0	<8.6	<5.0	<8.6	<5.0	<8.6
Freon-12	0.80	4.0	<0.80	<4.0	<0.80	<4.0	<0.80	<4.0
Chloromethane	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Freon-114	0.80	5.6	<0.80	<5.6	<0.80	<5.6	<0.80	<5.6
Vinyl Chloride	0.80	2.0	<0.80	<2.0	<0.80	<2.0	<0.80	<2.0
1,3-Butadiene	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
n-Butane	0.80	1.9	<0.80	<1.9	1.8	4.2	<0.80	<1.9
Bromomethane	0.80	3.1	<0.80	<3.1	<0.80	<3.1	<0.80	<3.1
Chloroethane	0.80	2.1	<0.80	<2.1	<0.80	<2.1	<0.80	<2.1
Acetonitrile	5.0	8.4	<5.0	<8.4	<5.0	<8.4	<5.0	<8.4
Vinyl Bromide	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Acrolein	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
Acetone	5.0	12	9.8	23	12	29	<5.0	<12

Date

: 12-OCT-21



	Client	: Phase Separation Science, Inc. Account No.: 15354	
6601 Kirkville Road	Site	: DOUGLASS MACARTHUR Login No. : L548280	
East Syracuse, NY 13057	Project No.	: ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	: 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-	21
FAX: (315) 437-0571	Date Received	: 05-OCT-21 Report ID : 1269213	
www.sgsgalson.com			

TO15 List

Galson ID: Client ID:			L548280-13 DM-CLASS 105				L548280-15 DM-OUTDOOR		
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	
Freon-11	0.80	4.5	<0.80	<4.5	<0.80	<4.5	<0.80	<4.5	
Isopropyl Alcohol	5.0	12	32	79	30	73	<5.0	<12	
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7	
Pentane	0.80	2.4	7.2	21	10	30	1.4	4.2	
Ethyl Bromide	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6	
1,1-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2	
tert-Butyl Alcohol	5.0	15	<5.0	<15	<5.0	<15	<5.0	<15	
Methylene Chloride	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8	
Freon-113	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1	
Carbon Disulfide	5.0	16	<5.0	<16	<5.0	<16	<5.0	<16	
Allyl Chloride	0.80	2.5	<0.80	<2.5	<0.80	<2.5	<0.80	<2.5	
trans-1,2-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2	
1,1-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2	

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS	Supervisor: BLD
Collection Media : Mini Can	Approved by : JMR
Submitted by : SAP	Date : 12-OCT-21



	Client	:	Phase Separation Science, Inc.	Account No.: 15354
6601 Kirkville Road	Site	:	DOUGLASS MACARTHUR	Login No. : L548280
East Syracuse, NY 13057	Project No.	:	ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	:	30-SEP-21	Date Analyzed : 11-0CT-21 - 12-0CT-21
FAX: (315) 437-0571	Date Received	:	: 05-OCT-21	Report ID : 1269213
www.sgsgalson.com				

TO15 List

Galson ID: Client ID:				L548280-13 DM-CLASS 1055			L548280-14 DM-HALL 1053		L548280-15 DM-OUTDOOR	
	LOQ pbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3		
Methyl tert-Butyl Ether	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9		
Vinyl Acetate	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8		
Methyl Ethyl Ketone	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4		
cis-1,2-Dichloroethylene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2		
Hexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8		
Ethyl Acetate	0.80	2.9	0.80	3.0	1.1	3.8	<0.80	<2.9		
Chloroform	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9		
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4		
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2		
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4		
Benzene	0.80	2.6	<0.80	<2.6	<0.80	<2.6	<0.80	<2.6		
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<0.80	<5.0	<0.80	<5.0		
Cyclohexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8		

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS	Supervisor: BLD
Collection Media : Mini Can	Approved by : JMR
Submitted by : SAP	Date : 12-OCT-21

Page 32 of 45



	Client	: Phase Separation Science, Inc.	Account No.: 15354
6601 Kirkville Road	Site	: DOUGLASS MACARTHUR	Login No. : L548280
East Syracuse, NY 13057	Project No.	: ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	: 30-SEP-21	Date Analyzed : 11-OCT-21 - 12-OCT-21
FAX: (315) 437-0571	Date Received	: 05-OCT-21	Report ID : 1269213
www.sgsgalson.com			

TO15 List

Galson ID: Client ID:						L548280-14 DM-HALL 1053		L548280-15 DM-OUTDOOR	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7	
Bromodichloromethane	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4	
1,4-Dioxane	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9	
Trichloroethylene	0.80	4.3	<0.80	<4.3	<0.80	<4.3	<0.80	<4.3	
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7	
Methyl Methacrylate	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3	
Heptane	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3	
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6	
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6	
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4	
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3	
Toluene	0.80	3.0	3.3	13	1.7	6.5	<0.80	<3.0	
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3	

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS	Supervisor: BLD
Collection Media : Mini Can	Approved by : JMR
Submitted by : SAP	Date : 12-OCT-21



	Client	: Phase Separation Science, Inc.	Account No.: 15354
6601 Kirkville Road	Site	: DOUGLASS MACARTHUR	Login No. : L548280
East Syracuse, NY 13057	Project No.	: ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	: 30-SEP-21	Date Analyzed : 11-OCT-21 - 12-OCT-21
FAX: (315) 437-0571	Date Received	: 05-OCT-21	Report ID : 1269213
www.sgsgalson.com			

TO15 List

Galson ID: Client ID:						L548280-14 DM-HALL 1053		L548280-15 DM-OUTDOOR	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	
Dibromochloromethane	0.80	6.8	<0.80	<6.8	<0.80	<6.8	<0.80	<6.8	
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1	
Tetrachloroethylene	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4	
Chlorobenzene	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7	
Ethylbenzene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5	
m & p-Xylene	1.6	6.9	<1.6	<6.9	<1.6	<6.9	<1.6	<6.9	
Bromoform	0.80	8.3	<0.80	<8.3	<0.80	<8.3	<0.80	<8.3	
Styrene	0.80	3.4	<0.80	<3.4	<0.80	<3.4	<0.80	<3.4	
1,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5	<0.80	<5.5	<0.80	<5.5	
o-Xylene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5	
Nonane	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2	
Cumene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9	
2-Chlorotoluene	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1	

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS	Supervisor: BLD
Collection Media : Mini Can	Approved by : JMR
Submitted by : SAP	Date : 12-OCT-21



	Client	: Phase Separation Science, Inc. Account No.: 15354	
6601 Kirkville Road	Site	: DOUGLASS MACARTHUR Login No. : L548280	
East Syracuse, NY 13057	Project No.	: ACPS IAQ TESTING	
(315) 432-5227	Date Sampled	: 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-	21
FAX: (315) 437-0571	Date Received	: 05-OCT-21 Report ID : 1269213	
www.sgsgalson.com			

TO15 List

Galson ID: Client ID:						L548280-14 DM-HALL 1053		L548280-15 DM-OUTDOOR	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	
n-Propylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9	
4-Ethyltoluene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9	
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9	
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9	
Benzyl Chloride	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1	
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8	
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8	
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8	
Naphthalene	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2	

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS	Supervisor: BLD
Collection Media : Mini Can	Approved by : JMR
Submitted by : SAP	Date : 12-0CT-21



	Client Name :	Phase Separation Scienc	e, Inc.
	Site :	DOUGLASS MACARTHUR	
	Project No. :	ACPS IAQ TESTING	
6601 Kirkville Road			
East Syracuse, NY 13057	Date Sampled :	30-SEP-21	Account No.: 15354
(315) 432-5227	Date Received:	05-OCT-21	Login No. : L548280
FAX: (315) 437-0571	Date Analyzed:	11-OCT-21 - 12-OCT-21	
www.sgsgalson.com			

L548280 (Report ID: 1269213):

NYSDOH does not offer a certification for the following compounds: Propylene, Ethyl Acetate, Tetrahydrofuran, Methyl n-Butyl Ketone, 4-Ethyl Toluene, n-Butane, Pentane, Ethyl Bromide, Nonane, and n-Propylbenzene. SOPs: in-vocs(40)

L548280-5,11,13-14 (Report ID: 1269213):

Sample canister was received at/near ambient pressure.

L548280-9-14 (Report ID: 1269213):

Acetone result may be biased high due to co-elution with 2-methylbutane.

L548280-4 (Report ID: 1269213):

Propylene results may be biased high due to co-elution with Propane.

L548280 (Report ID: 1269213):

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
1,1,2,2-Tetrachloroethane	+/-14%	98.9%
1,1,2-Trichloroethane	+/-12.6%	97.6%
1,1-Dichloroethane	+/-15.4%	96.5%
1,1-Dichloroethene	+/-15.7%	98.2%
1,2,4-Trimethylbenzene	+/-15%	105%
1,2-Dibromoethane	+/-13.5%	99.8%
1,2-Dichlorobenzene	+/-12.4%	103%
1,2-Dichloroethane	+/-17.6%	98.6%
1,2-Dichloropropane	+/-14.8%	96.2%
1,3,5-Trimethylbenzene	+/-13.2%	103%
1,3-Dichlorobenzene	+/-12.6%	102%
1,4-Dichlorobenzene	+/-13.3%	102%
2,2,4-Trimethylpentane	+/-15.1%	97.9%
2-Chlorotoluene	+/-13.2%	104%
4-Ethyltoluene	+/-13.9%	104%
Acrolein	+/-21.8%	93.1%
Acrylonitrile	+/-16.4%	97.9%
Allyl Chloride	+/-18.7%	97.5%
Acetonitrile	+/-17.4%	100%
Acetone	+/-14.6%	97.4%
Bromodichloromethane	+/-12.9%	100%



6601 Kirkville Road East Syracuse, NY 13057 (315) 432-5227 FAX: (315) 437-0571 www.sgsgalson.com Client Name : Phase Separation Science, Inc. Site : DOUGLASS MACARTHUR Project No. : ACPS IAQ TESTING

 Date Sampled : 30-SEP-21
 Account No.: 15354

 Date Received: 05-OCT-21
 Login No. : L548280

 Date Analyzed: 11-OCT-21 - 12-OCT-21

Bromoform	+/-14.4%	103%
1,3-Butadiene	+/-16.9%	97.5%
n-Butane	+/-18.2%	95.9%
Benzene	+/-13.3%	97.3%
Benzyl Chloride	+/-15%	109%
Carbon Disulfide	+/-13.8%	96.5%
Carbon Tetrachloride	+/-15.7%	100%
cis-1,2-Dichloroethylene	+/-16%	98.6%
cis-1,3-Dichloropropene	+/-14.6%	101%
Chlorobenzene	+/-13.3%	97.5%
Dibromochloromethane	+/-13%	102%
Chloroform	+/-14.1%	97.7%
Cumene	+/-13.9%	101%
Cyclohexane	+/-15.1%	100%
1,4-Dioxane	+/-13.7%	101%
Ethyl Acetate	+/-17.9%	98.4%
Ethylbenzene	+/-14.7%	101%
Chloroethane	+/-16.7%	96.9%
Ethyl Bromide	+/-13%	97.4%
Freon-11	+/-15.5%	99.4%
Freon-113	+/-13.2%	96.7%
Freon-114	+/-14.5%	98.8%
Freon-12	+/-15.3%	99.2%
Heptane	+/-16.1%	99.1%
Isopropyl Alcohol	+/-20.8%	96.3%
1,1,1-Trichloroethane	+/-15.1%	99.2%
Bromomethane	+/-13%	97%
Chloromethane	+/-17.9%	96.3%
Methylene Chloride	+/-14.4%	93.4%
Methyl Ethyl Ketone	+/-17.7%	97.8%
Methyl Methacrylate	+/-16%	102%
Methyl Isobutyl Ketone	+/-18.2%	99.4%
Methyl Butyl Ketone	+/-18.7%	105%
m & p-Xylene	+/-14%	100%
Methyl tert-Butyl Ether	+/-15.4%	100%
Naphthalene	+/-20.2%	111%
Hexane	+/-15.6%	98.1%
Nonane	+/-16.7%	103%
n-Propylbenzene	+/-13.2%	103%
o-Xylene	+/-13.9%	101%
Propylene	+/-18.8%	96.3%
Pentane	+/-17.9%	97.1%
Styrene	+/-15.2%	104%
Trichloroethylene	+/-12.8%	98.8%

+/-18.4%

tert-Butyl Alcohol

Page 34 of 38 Report Reference:1 Generated:12-OCT-21 13:25

101%



Site : DOUGL Project No. : ACPS 6601 Kirkville Road East Syracuse, NY 13057 Date Sampled : 30-SE

Client Name : Phase Separation Science, Inc. Site : DOUGLASS MACARTHUR Project No. : ACPS IAQ TESTING

East Syracuse, NY 13057	Date Sampled : 30-SEP-21	Account No.: 15354
(315) 432-5227	Date Received: 05-OCT-21	Login No. : L548280
FAX: (315) 437-0571	Date Analyzed: 11-0CT-21 - 12-0CT-21	
www.sgsgalson.com		

Tetrachloroethylene	+/-13.1%	98.9%
Tetrahydrofuran	+/-19%	99%
Toluene	+/-14.4%	99.6%
trans-1,2-Dichloroethene	+/-15.8%	97.6%
trans-1,3-Dichloropropene	+/-14.8%	103%
Vinyl Acetate	+/-22.4%	96.1%
Vinyl Bromide	+/-13.8%	97.7%
Vinyl Chloride	+/-15.6%	97.7%

2313E40166539869 hte:10/05/21 hipper:UPS	1548	1280												
nitials:MAK	New Client		ase Separation S		Invoice T	Invoice To* : Phase Separation Science								
ер : UNKNOWN	Client Account	- D -=	30 Baltimore Nati Iltimore, MD 2122	1										
2313E40165932079 te:10/05/21 ipper:UPS		Phone No.* : 41	0-747-8770	······		No.: <u>410-747-8</u>								
itials:MAK LULUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU		Cell No. :					phaseonline.con	<u>n</u>						
ep : UNKNOWN		Email Results to <u>: An</u> Email address <u>: rep</u>	nber Confer porting@phaseonli	ne.com	P.O. N Credit Ca	rd : 🚺 Card on F	ile Call for Cre	edit Card Info.						
Need Results By: (surcharge)	1			ng the FreePumpLoan™		submitted using th	ne FreeSamplingBadg	es™ Program						
Standard 0%	Site Name : Dougl	ass MacArthur	Pr	oject : ACPS IAQ T	esting Sam	pled by : Client								
4 Business Days 35%	Comments :													
3 Business Days 50%	+ Comple-	TN IS DM.	Harl 1 Plat - H	063 ND 1063	al del.									
Next Day by 6pm 100%		lustry or Process/interfe			State samples were	Please indicate v	which OEL this data wi	ill be used for :						
Next Day by Noon 150%				ing area :	collected in (e.g., NY)	OSHA PEL		Cal OSHA						
Same Day 200%					VA	🗍 МЅНА	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 Reque	ested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*						
DM- Main Admin	09/30/21	Canister	1L	ug/m^3	voc		TO-15 (list)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, _,, ,, ,, ,, ,, ,, ,, ,, ,, ,, , _,, ,, ,, , _,, ,, ,, , _,, ,, ,, , _, ,, ,, ,, , _, ,, ,, , _, ,, ,, ,, , _, ,, ,, , _, ,, ,, , _, ,, ,, , _, ,, , _, ,, ,, , _, ,, ,, , _, ,, , _, ,, , _, ,, , _, ,, , _, ,, , _, ,, , _, ,, ,, , _, ,, , _, ,, , _, ,, , _, ,, , _, ,, , _, ,, , ,, , , ,						
DM- Gym	09/30/21	Canister	1L	ug/m^3	voc		TO-15 (list)							
DM- Media Center	09/30/21	Canister	1L	ug/m^3	voc		TO-15 (list)	1						
DM- Cafeteria	09/30/21	Canister	1L	ug/m^3	voc	···· , ··_ ···	TO-15 (list)							
DM- Class 1072	09/30/21	Canister	1L	ug/m^3	voc		TO-15 (list)	†						
DM- Class 1032	09/30/21	Canister	1L	ug/m^3	voc		TO-15 (list)							
DM- Hall 1115	09/30/21	Canister	1L	ug/m^3	voc		TO-15 (list)	+						
DM- Class 1117	09/30/21	Canister	1L	ug/m^3	voc	- 4	TO-15 (list)							
DM- Class 1125	09/30/21	Canister	1L.	ug/m^3	voc		TO-15 (list)							
DM- Class 1059	09/30/21	Canister	1L	ug/m^3	voc		TO-15 (list)							
DM- Hall 1061-1062	09/30/21	Canister	1L	ug/m^3	voc		TO-15 (list)	-						
^Galson Laboratories will subsititute out	r routine/preferred met	L	L) listed on COC		1						
For metals analysis: if requesting an anal	·····			· · · · · · · · · · · · · · · · · · ·				n we en a a a a a a a a a a a a a a a a a a						
For crystalline silica: form(s) of silica nee							ų <u>1</u>	<u> </u>						
Chain of Custody Pri	int Name/Signature		Date Time		Print Nam	e/Signature	Da	te Time						
	212mm	Indu	1121	Received by :	IAPS	NPS //								
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CCC	0.41.0.01	New Client	? Report To* : Ph	Invoice 1	Invoice To* : Phase Separation Science						
JUJ	GALSO	V		30 Baltimore Nati				-			
		Client Account	No.*: Ba	Itimore, MD 2122	8			,			
	rkville Rd			0 747 9770		Phone I		770			
	racuse, NY 13057 5) 432-5227		Phone No.* : 410	0-747-8770			No.: <u>410-747-8</u>				
	3-432-LABS (5227))	Cell No. :					phaseonline.con	<u> </u>		
www.s	sgalson.com		Email Results to <u>An</u>		···· ···-	P.O. N					
	, 0		Email address: rep	orting@phaseonli	ne.com	Credit Ca	rd : 🗌 Card on F	ile Call for Cre	edit Card Info.		
Need Results By:	(surcharge)		\checkmark	Samples submitted usi	ng the FreePumpLoan™	Program Samples	submitted using th	e FreeSamplingBadg	es™Program		
🖌 Stand	ard 0%	Site Name : Doug!	ass MacArthur	Pr	oject:ACPS IAQ T	esting Sam	pled by : Client				
4 Business D	ays 35%	Comments :						·			
3 Business D	iys 50%								Ì		
2 Business D	ays 75%										
Next Day by 6	om 100%	List description of ind	dustry or Process/interfe	rences present in samp	ling area :	State samples were		which OEL this data wi	i		
Next Day by No	on 150%		•			collected in (e.g., NY)			Cal OSHA		
Same D	ay 200% _.		.	· · · · · · · · · · · · · · · · · · ·		VA		Other (specify):			
Sample Ide (Maxmium of		Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requ	Analysis Requested* Method Refer				
DM- Class 1064		09/30/21	Canister	1L	ug/m^3	VOC	TO-15 (list)				
DM- Class 1055		09/30/21	Canister	1L	ug/m^3	voc	TO-15 (list)				
DM- Hall 1053		09/30/21	Canister	1L	ug/m^3	voc		TO-15 (list)			
DM- Outdoor		09/30/21	Canister	1L	ug/m^3	voc	-	TO-15 (list)			
		09/30/21	Canister	1L	ug/m^3	voc		TO-15 (list)			
		09/30/21	Canister	1L	ug/m^3	voc		TO-15 (list)			
		09/30/21	Canister	1L	ug/m^3	voc		TO-15 (list)			
		09/30/21	Canister	1L	ug/m^3	voc		TO-15 (list)			
		09/30/21	Canister	1L	ug/m^3	voc		TO-15 (list)			
		09/30/21	Canister	1L	ug/m^3	voc		TO-15 (list)			
		09/30/21	Canister	1L	ug/m^3	voc		TO-15 (list)			
^Galson Laboratorie	s will subsititute our	routine/preferred met	hod if it does not match	the method listed on th	e COC unless this box is	s checked: 🚺 Use method(s) listed on COC				
For metals analysis:	f requesting an anal	yte with the option of	a lower LOQ, please ind	icate if the lower LOQ is	required (only available	e for certain analytes - see SA	(G):				
For crystalline silica:	form(s) of silica nee	ded must be indicated	(Quartz, Cristobalite, ar	nd/or Tridymite)* :							
Chain of Custody	Pri	nt Name/Signature		Date Time		Print Nam	ne/Signature	Da	ite Time		
Relinquished by :					Received by :	11.0	alla Kan		ID ID		
Relinquished by :					Received by the		helle sym	195	21 11		
		* F			will be considered as netes: In Generated	next day's business de2a/OG Jo2/1sandbp285s be	ing processed.	1	Page of		



Chain of Custody Form for Subcontracted Analyses

Page 1 of 1

graycar

Phase Separation Science, Inc

6630 Baltimore National Pike Baltimore, MD 21228 Phone: (410) 747-8770 Fax: (410) 788-8723 W.O. No. : 21100120

Project Location : Douglass MacArthur

Project Number: 4920002

Report To LOD : No

Report Due On :10/12/21 05:00

Samples Transferred To: SGS North America - NY

6601 Kirkville Road East Syracuse, NY 13057

Old SGS Galson Labs. bsc Phone : 315-432-5227

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
21100120-001	DM- Main Admin	09/30/21	20:05	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-002	DM- Gym	09/30/21	20:06	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-003	DM- Media Center	09/30/21	20:08	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-004	DM- Cafeteria	09/30/21	20:11	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-005	DM- Class 1072	09/30/21	20:13	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-006	DM- Class 1032	09/30/21	20:15	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-007	DM- Hall 1115	09/30/21	20:08	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-008	DM- Class 1117	09/30/21	20:09	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-009	DM- Class 1125	09/30/21	20:10	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-010	DM- Class 1059	09/30/21	20:12	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-011	DM- Hall 1061-1062	09/30/21	20:13	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-012	DM- Class 1064	09/30/21	20:16	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-013	DM- Class 1055	09/30/21	20:19	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-014	DM- Hall 1053	09/30/21	20:19	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-015	DM- Outdoor	09/30/21	19:56	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON

Data Deliverables Required: COA

Send Report Attn : reporting@phaseonline.com

For Questions or issues please contact: Amber Confer

Perform	Q.C.	on	Sample	:
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Send InvoiceAttn : <u>invoicing@phaseonline.com</u>

Airbill No.:	\sim	
Condition Upon Receipt : _		
Comments :	# 2 boxes *	
Samples Relinquished By :	Date : ス 10/4/ ソ Time: Samples Received By :	
Samples Relinquished By: _	Date : Time : Samples Received By:	D
Samples Relinquished By: _	Date: Page 38 of 38 Report Reference: () Generated: 12-OCT-21, 13:25-lle H. rause /0/9/21 //	

PHASE	
SEPARATION	
SCIENCE	

Case Narrative

Project Name: ACPS IAQ PSS Project No.: 21100120

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. Incoming pressures not taken upon receipt; incoming pressures will be taken by subcontracting lab.

21100120: 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.



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM TO-15

www.phaseonline.com

PHASE SEPARATION SCIENCE, INC.

email: info@phaseonline.com

						200 W. J. O. J. #				and 1 and 2						
Ĭ	*CLIENT: Total Environmental Concepts, Inc. *OFFICE LOC.: Lorton							S Work Order #: PAGE OF								
	*PROJECT MGR: Karl Ford							21100120								
		kford@teci.pro		*PHONE NO: (703 ₎ 567-4	346										
	*PROJE	CT NAME: ACPS IAQ te			_{0.:} 4920002		* 3		ч њ *	*	er ab	ab *	∕ir *			
	01751.0	CATION: Douglass Mac	Arthur	P.O. NO.:				g. D	essur) Stai	essur) Stol	aniste Hg) L	sidad	ient /	List		
ł		R(S): Channing Jack			anger		* _	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 *	5 Full List	ial List	
2	LAB #	*SAMPLE IDENTIFICATION	*DATE START	*Time Start (24hr clock)	*DATE STOP	*Time Stop (24hr clock)	Can ID	Sam	Canis in fiel	Canis in fiel	Incor	Soil (Indoc	TO-15	Special	REMARKS
	1	DM - Main Admin	9/30/21	16:07	9/30/21	20:05	WA59	3 6070	35.0	10.0				V		
	2	DM - Gym	9/30/21	1 <mark>6:</mark> 10	9/30/21	20:06	WA66	2 4370	30.0				\square	~		
	3	DM - Media Center	9/30/21	16:12	9/30/21	20:08	WA58	6 6396	35.0	8.0				~		
	4	DM - Cafeteria	9/30/21	16:14	9/30/21	20:11	WA66	9 4366	35.0					~		
	S	DM - Class 1072	9/30/21	16:22	9/30/21	20:13	2323	11486	26.0					~		
	6	DM - Class 1032	9/30/21	16:25	9/30/21	20:15	WA24	2 10728	35.0	12.0			\Box	~		
	7	DM - Hall 1115	9/30/21	16:08	9/30/21	20:08	WA67	0 WR834	27.0	8.0				~		
	8	DM - Class 1117	9/30/21	16:10	9/30/21	20:09	1346	6390	27.0	3.0				~		
	9	DM - Class 1125	9/30/21	16:13	9/30/21	20:10	1384	5919	30+	9.0				~		
	(0	DM - Class 1059	9/30/21	16:18	9/30/21	20:12	WA63	0 12756	30+	7.0				~		
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	Relinquished By: (2) Date Time		Time	Received By:			Data Deliverables Required:									
	Relinquished By: (3)		Date	Time	Received By:			Special Instru	ctions:							
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



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM TO-15

www.phaseonline.com

PHASE SEPARATION SCIENCE, INC.

email: info@phaseonline.com

	*CLIENT	IENT: Total Environmental Concepts, Inc. *OFFICE LOC.: Lorton			PSS Work	Order #:			PAGE 1		OF	2				
		ст _{мgr:} Karl Ford					21	10012	0							
		kford@teci.pro		*PHONE NO: (703) 567-4	1346										
		CT NAME: ACPS IAQ te			_{o.:} 4920002		* (3)	*	* 2 ±	* d	er -ab	ab *	Air *			
	SITE LO	CATION: Douglass Mac	Arthur	P.O. NO.:			1	D. D	ressu g) Sta	ressu g) Sto	Canist "Hg) I	Subsl	bient	List		
		AMPLER(S): Channing Jackson, Margaret Stanger		* ₽	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						
2	LAB #	*SAMPLE IDENTIFICATION	*DATE START	*Time Start (24hr clock)	*DATE STOP	*Time Stop (24hr clock)	Can ID	Sarr	Can in fie	Can in fie	Inco Pres	Soil	lndo	ġ	Spe	REMARKS
	11	DM - Class 1061-1062	9/30/21	16:22	9/30/21	20:13	WA642	11466	26.0	0.0				~		
	12	DM - Class 1064	9/30/21	16:24	9/30/21	20:16	WA761	4342	30+	10.0				~		
	13	DM - Class 1055	9/30/21	16:26	9/30/21	20:19	1489	4332	30.0	0.0				~		
	14	DM - Hall 1053	9/30/21	16:28	9/30/21	20:21	WA587	WR520	30.0	0.0				~		
	15	DM - Outdoor	9/30/21	16:04	9/30/21	19:56	WA575	6 42592	30.0	4.0				~		
						\bigcirc										
5		shed By: (1)	Date	Time/7:30	Received By:	Zi	/ (4 Keque	sted TAT	T (One TA 3-Day	AT per CO	DC) 2-Da	v	Ship		Carrier:
		ning Jackson	10/1/21 Date	12:00 @ Time	Received By:			Next D	Day 🗌	Emerg	ency	Othe	-		C	lient
	rteimqui	sned by. (2)	Date	Time	Received by.		D	ata Deliverabl	es Requi	ired:						
Relinquished By: (3) Date Time Receive			Received By:		s	pecial Instruct	tions:									
	Relinqui	ished By: (4)	Date	Time	Received By:											

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SEPARATION

Project Name: ACPS IAQ PSS Project No.: 21100120

Client Name	Total Environmental Concepts -	Lorte	Received B	Brad (Crozier
		LOIL			
Disposal Date	11/05/2021		Date Receiv	ed 10/01/	2021 05:30:00 PM
			Delivered B	y Client	
			Tracking No	Not Ap	plicable
			Logged In E	3y Ambe	r Confer
Shipping Contai	iner(s)			-	
No. of Coolers	0				
			Ice		N/A
Custody Seal(s	•	N/A	Temp (d	•	
Seal(s) Signed	/ Dated?	N/A	Temp Bl	ank Preser	nt No
Documentation			Sampler	Name	C. Jackson, M. Stanger
COC agrees wi	th sample labels?	Yes	MD DW	Cert. No.	<u>N/A</u>
Chain of Custo	dy	Yes			
Sample Contain	er		Custody	Seal(s) Int	act? Not Applicable
Appropriate for	Specified Analysis?	Yes	Seal(s) S	Signed / Da	ted Not Applicable
Intact?		Yes		bigrica / Do	
Labeled and La	abels Legible?	Yes			
Holding Time			Total No	. of Sample	es Received 15
All Samples Re	eceived Within Holding Time(s)?	Yes	Total No	. of Contai	ners Received 15
Preservation					
Total Metals				(pH<2)	N/A
Dissolved Meta	lls, filtered within 15 minutes of co	ollectio	n	(pH<2)	N/A
Orthophosphor	us, filtered within 15 minutes of c	ollectio	on		N/A
Cyanides				(pH>12)	N/A
Sulfide				(pH>9)	N/A
	ld filtered), COD, Phenols			(pH<2)	N/A
TOX, TKN, NH				(pH<2)	N/A
	OA Vials Rcvd Preserved)			(pH<2)	N/A
	ave zero headspace?				N/A
•	d at least one unpreserved VOA	vial)		(N/A
524 VOC (Revo	d 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. Incoming pressures not taken upon receipt; incoming pressures will be taken by subcontracting lab.

Samples Inspected/Checklist Completed By: Amber Confer

Date: 10/04/2021

PM Review and Approval:

NY Jackson Lyr Pragee: 14500f 45

Date: 10/04/2021 Version 1.000



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM TO-15

www.phaseonline.com

PHASE SEPARATION SCIENCE, INC.

email: info@phaseonline.com

	*CLIENT	PROJECT MGR:					PSS Work	Order #:			PAGE _		OF			
	EMAIL: *PHONE NO: () *PROJECT NAME: PROJECT NO.: SITE LOCATION: P.O. NO.: SAMPLER(S): SAMPLER(S):			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				
2	LAB #	*SAMPLE IDENTIFICATION	*DATE START	*Time Start (24hr clock)	*DATE STOP	*Time Stop (24hr clock)	Can	San	Can in fi	Can in fi	Incc Pre:	Soil	Inde	TO-	Spe	REMARKS
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	Relinqu	linquished By: (2) Date Time Received By:				C	Data Deliverabl	es Requi	ired:			<u>.</u>				
	Relinquished By: (3) Date Time Received By: Relinquished By: (4) Date Time Received By:			ະ	Special Instruct	tions:										

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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



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM TO-15

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email: info@phaseonline.com

	*CLIENT	PROJECT MGR:					PSS Work	Order #:			PAGE _		OF			
	EMAIL: *PHONE NO: () *PROJECT NAME: PROJECT NO.: SITE LOCATION: P.O. NO.: SAMPLER(S): SAMPLER(S):			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				
2	LAB #	*SAMPLE IDENTIFICATION	*DATE START	*Time Start (24hr clock)	*DATE STOP	*Time Stop (24hr clock)	Can	San	Can in fi	Can in fi	Incc Pre:	Soil	Inde	TO-	Spe	REMARKS
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5) Relinqu	uished By: (1)	Date	Time	Received By:		(4 Reque 5-Day	sted TAT	(One T/] 3-Day] Emere	AT per CC)C) 2-Da] Oth	ıy er	Ship	ping C	Carrier:
	Relinqu	linquished By: (2) Date Time Received By:				C	Data Deliverabl	es Requi	ired:			<u>.</u>				
	Relinquished By: (3) Date Time Received By: Relinquished By: (4) Date Time Received By:			ະ	Special Instruct	tions:										

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Appendix D: Formaldehyde Analytical Results



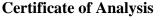
Project Name: ACPS IAQ PSS Project No.: 21100408

October 13, 2021

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

Reference: PSS Project No: **21100408** Project Name: ACPS IAQ Project Location: Douglass MacArthur Project ID.: 4920002

Dear Karl Ford:



6630 Baltimore National Pike Baltimore, MD 21228 410-747-8770 800-932-9047 www.phaseonline.com



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) **21100408**.

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 November 8, 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 PSS Project No.: 21100408

Project ID: 4920002

The following samples were received under chain of custody by Phase Separation Science (PSS) on 10/04/2021 at 02:35 pm

PSS Sample ID	Sample ID	Matrix	Date/Time Collected	
21100408-001	DM- Main Admin	AIR	09/30/21 00:00	
21100408-002	DM- Gym	AIR	09/30/21 00:00	
21100408-003	DM- Media Center	AIR	09/30/21 00:00	
21100408-004	DM- Cafeteria	AIR	09/30/21 00:00	
21100408-005	DM- Class 1072	AIR	09/30/21 00:00	
21100408-006	DM- Class 1032	AIR	09/30/21 00:00	
21100408-007	DM- Hall 1115	AIR	09/30/21 00:00	
21100408-008	DM- Class 1117	AIR	09/30/21 00:00	
21100408-009	DM- Class 1125	AIR	09/30/21 00:00	
21100408-010	DM- Class 1059	AIR	09/30/21 00:00	
21100408-011	DM- Hall 1061-1062	AIR	09/30/21 00:00	
21100408-012	DM- Class 1064	AIR	09/30/21 00:00	
21100408-013	DM- Class 1055	AIR	09/30/21 00:00	
21100408-014	DM- Hall 1053	AIR	09/30/21 00:00	
21100408-015	DM- 1035/Cafe	AIR	09/30/21 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 contaminates, and part 141.3, for the secondary drinking water contaminates.
- 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

SCIENCE

Project Name: ACPS IAQ

PSS Project No.: 21100408

Standard Flags/Abbreviations:

- В A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- С Results Pending Final Confirmation.
- Е The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1. Fail
- 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.
- PSS Reporting Limit. RL
- 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 October 12, 2021

Account# 15354

Login# L548409

Dear Ms. Confer:

Enclosed are the analytical results for the samples received by our laboratory on October 06, 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 Luab

Lisa Swab Laboratory Director

Enclosure(s)



ANALYTICAL REPORT

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.sgsgalson.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.sgsgalson.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		

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



6601 Kirkville Road East Syracuse, NY 13057

(315) 432-5227 FAX: (315) 437-0571 www.sgsgalson.com

LABORATORY ANALYSIS REPORT

Client	: Phase Separation Science, Inc.	Account No.: 15354
Site	: DOUGLASS MACARTHUR	Login No. : L548409
Project No.	: ACPS IAQ TESTING - 4920002	
Date Sampled	: 30-SEP-21	Date Analyzed : 08-OCT-21
Date Received	: 06-OCT-21	Report ID : 1268929

Formaldehyde

		Time	Total	Conc	
<u>Sample ID</u>	<u>Lab ID</u>	minutes	uq	mg/m3	mqq
DM - MAIN ADMIN	L548409-1	257	<0.4	<0.01	<0.01
DM - GYM	L548409-2	258	<0.4	<0.01	<0.01
DM - MEDIA CENTER	L548409-3	258	<0.4	<0.01	<0.01
DM - CAFETERIA	L548409-4	258	<0.4	<0.01	<0.01
DM - CLASS 1072	L548409-5	258	<0.4	<0.01	<0.01
DM - CLASS 1032	L548409-6	256	<0.4	<0.01	<0.01
DM - HALL 1115	L548409-7	255	<0.4	<0.01	<0.01
DM - CLASS 1117	L548409-8	255	<0.4	<0.01	<0.01
DM - CLASS 1125	L548409-9	255	<0.4	<0.01	<0.01
DM - CLASS 1059	L548409-10	256	<0.4	<0.01	<0.01
DM - HALL 1061-1062	L548409-11	257	<0.4	<0.01	<0.01
DM - CLASS 1064	L548409-12	256	0.4	0.01	0.01
DM - CLASS 1055	L548409-13	258	<0.4	<0.01	<0.01
DM - HALL 1053	L548409-14	255	<0.4	<0.01	<0.01
DM - 1035/CAFE	L548409-15	259	<0.4	<0.01	<0.01

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

Level of Quantitation: 0.4 ug	Submitted by: CAS/JLL	Approved by: NKP
Analytical Method : mod. OSHA 1007; HPLC/UV Collection Media : Assay 581	Date : 11-OCT-21 Supervisor : MWJ	
	L	



	Client Name : Phase Separation	Science, Inc.
	Site : DOUGLASS MACARTH	UR
	Project No. : ACPS IAQ TESTING	- 4920002
6601 Kirkville Road		
East Syracuse, NY 13057	Date Sampled : 30-SEP-21	Account No.: 15354
(315) 432-5227	Date Received: 06-OCT-21	Login No. : L548409
FAX: (315) 437-0571	Date Analyzed: 08-OCT-21	
www.sgsgalson.com		

L548409 (Report ID: 1268929):

Total ug corrected for a desorption efficiency of 96%. FORMALDEHYDE results have been corrected for the average background found on the media: 0.1305 ug for lot #12B20 (sample 14). FORMALDEHYDE results have been corrected for the average background found on the media: 0.1178 ug for lot #4B21 (samples 1-13,15). SOPs: LC-SOP-4(23)

L548409 (Report ID: 1268929):

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%

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Version 1.000
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6548409

21100408

Dai Sh In	313E40165129938 e:10/06/21 pper:UPS tials:MAK p:UNKNOWN p:UNKNOWN		Client Account f	No.*: Phone No.* Cell No Emajl Results to	6630 E Baltim :410-74 : :Amber	· · · · · · · ·	ło.: <u>410-747-8</u> 7	A920002-001 d on File Call for Credit Card Info.				
	Need Results By:	(surcharge)			Sam:	ples submitted usin	ng the FreePumpLoan™	Program Samples	submitted using th	e FreeSamplingB	adges™Program	
t	Standard	0%	Site Name : Dougla	ass MacArthu	IT .	Pro	pject : ACPS IAQ te	sting - 4920002 Sam	pled by: Karl F	ord		
Ν	4 Business Days	35%	Comments :								-	
Ì	3 Business Days	50% ·	Dosimeter cartr	ige # noted i	n the (H	lexavelent Chr	omium Process) o	olum				
	2 Business Days	75%		·····				······	1			
	Next Day by 6pm	100%	List description of ind	ustry or Process/i	nterference	es present in samp	ling area :	State samples were collected in (e.g., NY)	Please indicate w		a will be used for :	
	Next Day by Noon Same Day	150% 200%	Public grade s	school buildi	ng					Other (specify		
	Sample Identifi (Maxmium of 20 Cl	cation*	Date Sampled	Collection Me		Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requ		Method Referen	Hexavalent Chromium	
	DM - Main Admin		09/30/21	Assay N581 Aldehyde	Badge 25	7	Min	Formaldehyde		mod, OSHA 1007: TPI	.cruv PD4242	
ľ	DM - Gym	09/30/21 Assay N581 Ald			Badge 25	8	Min	Formaldehyde		mod. OSHA 1007: TPI	.cuv PD4357	
Ĩ	OM - Media Center		09/30/21	Assay N581 Aldehydd	Badge 25	8	Min	Formaldehyde		mod. OSHA 1007: TPI	.cruv PD4547	
ľ	DM - Cafeteria		09/30/21	Assay N581 Aldehydd	Badge 25	8	Min	Formaldehyde		mod. OSHA 1007: TPI	-cruv PD4192	
ſ	OM - Class 1072		09/30/21	Assay N581 Aldehydd	Badge 25	8	Min	Formaldehyde		mod. OSHA 1007; TPL	.cruv PD4223	
ſ	DM - Class 1032		09/30/21	Assay N581 Aldehydd	Badge 25	6	Min	Formaldehyde	· · · · · · ·	mod. OSHA 1007: TPL	.cruv PD4624	
ſ	DM - Hall 1115		09/30/21	Assay N581 Aldehydd	Badge 25	5	Min	Formaldehyde		mod. OSHA 1007: TPL	- PD4661	
ſ	OM - Class 1117		09/30/21	Assay N581 Aldehydd	Badge 25	5	Min	Formaldehyde		mod. OSHA 1007: TPL	.cvv PD4268	
ľ	OM - Class 1125		09/30/21	Assay N581 Aldehyde	Badge 25	5	Min	Formaldehyde		mod. OSHA 1007: TPL	.cnuv PD5572	
ſ	DM - Class 1059		09/30/21	Assay N581 Aldehyde	Badge 25	6	Min	Formaldehyde		mod. OSHA 1007: TPL	.c/uv PD5133	
Ī	DM - Hall 1061-106	2	09/30/21	Assay N581 Aldehydd	Badge 25	7	Min	Formaldehyde		mod, OSHA 1007: TPI	-cnv PD4322	
AGatson Laboratories will subsititute 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)*:												
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	East Sy Tel: (31	rkville Rd racuse, NY 13057 5) 432-5227 8-432-LABS (5227)		Phone No.* : 41 Cell No. :	· · · · · · · · · · · · · · · · · · ·			Ema		phaseonline.com		
	www.s	isgaison.com	E	Email Results to : <u>Ar</u> Email address: <u>re</u>		seonline	e.com		o. : <u>ODC 4920</u> d : <mark>Card on F</mark> i		lit Card Inf	o.
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2	Stand	rd 0%	Site Name : Dougla	ass MacArthur		Proje	ect : ACPS IAQ te	sting - 4920002 Samp	led by: Karl F	ord		
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	Same D	ey 200%						VA	MSHA	Other (specify):		
	Sample Ide (Maxmium of		Date Sampled	Collection Medium	Sample Vol Sample Ti Sample Ar	me	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Reque	sted*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*	
DM	DM - Class 1064 09/30/21 Assay N581 A				◎ 256		Min	Formaldehyde		mod. OSHA 1007: TPLC/UV	PD420	4
DM	OM - Class 1064 09/30/21 Assay N361 A OM - Class 1055 09/30/21 Assay N581 A				e 258		Min	Formaldehyde		mod. OSHA 1007: TPLC/UV	PD548	1
DM	- Hall 1053		09/30/21	Assay N581 Aldehyde Badg	æ 255		Min	Formaldehyde		mod. OSHA 1007: TPLC/UV	/ OZ5533	
DM	- 1035/Cafe		09/30/21	Assay N581 Aldehyde Badg	• 259		Min	Formaldehyde		mod. OSHA 1007: TPLC/UV	PD4842	2
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Chain of Custody Form for Subcontracted Analyses

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Phase Separation So 6630 Baltimore Nat Baltimore, MD 212 Phone: (410) 747-8 Fax: (410) 788-872 For Questions or	ional Pike 28 770	mber Confer	Proj Proj Rep	ect Number : ort To LOD	4920002	SGS 660 East	aples Transferred To: S North America - NY I Kirkville Road t Syracuse, NY 1305 SGS Galson Labs. b ne : 315-432-5227	Y 57
Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
21100408-001	DM- Main Admin	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-002	DM- Gym	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-003	DM- Media Center	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-004	DM- Cafeteria	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-005	DM- Class 1072	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-006	DM- Class 1032	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-007	DM- Hall 1115	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-008	DM-Class 1117	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-009	DM- Class 1125	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-010	DM- Class 1059	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-011	DM- Hall 1061-1062	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-012	DM- Class 1064	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-013	DM- Class 1055	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-014	DM- Hall 1053	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-015	DM- 1035/Cafe	09/30/21	00:00	• Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
Send Repor	rables Required: t Attn : reporting@ Ca	phaseonline.co			Perform Q.C. on Send Inve	-	invoicing@phaseo	online.com
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PHASE	
SEPARATION	
SCIENCE	

Case Narrative

Project Name: ACPS IAQ PSS Project No.: 21100408

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.

21100408: 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.

21100408

(SGS	GALSON	New Client?	Report To	•* : Pha	ase Sepa 30 Baltim	aration Sc ore Natio	ience nal Pike	In·	voice To'	*:Phase Se	eparati	on Scie	nce		
			Client Account I	No.*:	Bal	timore, N	MD 21228									
	East Sy Tel: (3 88	irkville Rd vracuse, NY 13057 15) 432-5227 8-432-LABS (5227) gsgalson.com	E	Cell N mail Results t	hone No.* :410-747-8770 Phone No.: 410-74 Cell No. : Email : invoicin Results to : Amber Confer P.O. No. : ODC 4 ail address: reporting@phaseonline.com Credit Card : Card							g@phaseonline.com 920002-001				
	Need Results By	(surcharge)			2	Samples su	bmitted usin	g the FreePumpLoan™	Program 🔲 Sa	amples su	bmitted using the	e FreeSam	plingBadges	™ Program	m	
2	Stanc		Site Name : Dougla	ass MacArth	ur		Pro	ject : ACPS IAQ te	sting - 4920002	Sample	ed by: Karl Fo	ord				
	4 Business D		Comments :													
	3 Business D	ays 50%	Dosimeter cartr	ige # noted	in the	e (Hexave	elent Chro	omium Process) o	olum							
	2 Business D	ays 75%														
	Next Day by 6		List description of ind	ustry or Process	/interfer	rences pres	ent in sampli	ing area :	State samples were collected in (e.g., NY		Please indicate w					
	Next Day by N		Public grade s	chool build	ling				VA	[OSHA PEL	Other (Cal O	SHA	
	Same I			r		Samul	e Volume						specity).	Hexavalen	t Chromium	
(Mexmium of 20 Characters)					edium	Samp	le Time le Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analys	sis Reques	ted*	Method R	eference^	Process (e	.g., welding inting, etc.)*	
DM - Main Admin 09/30/21				Assay N581 Aldehy	de Badge	257		Min	Formaldehyde			mod, OSHA 1	007: TPLC/UV	PD424	2	
DM	- Gym		09/30/21	Assay N581 Aldehy	de Badge	258		Min	Formaldehyde			mod. OSHA 1	007: TPLC/UV	PD435	7	
DM	- Media Cer	nter	09/30/21	Assay N581 Aldehy	de Badge	258	58 Min Formaldehyde					mod. OSHA 1	007: TPLC/UV	PD454	7	
DM	- Cafeteria		09/30/21	Assay N581 Aldehy	de Badge	258		Min	Formaldehyde			mod. OSHA 1007: TPLC/UV		PD4192	2	
DM	- Class 107	2	09/30/21	Assay N581 Aldehy	de Badge	258		Min	Formaldehyde			mod, OSHA 1007: TPLC/UV		PD422	3	
DM	- Class 103	2	09/30/21	Assay N581 Aldehy	de Badge	256		Min	Formaldehyde			mod. OSHA 1	007: TPLC/UV	PD462	4	
DM	- Hall 1115		09/30/21	Assay N581 Aldehy	de Badge	255		Min	Formaldehyde			mod, OSHA 1	007: TPLC/UV	PD466	1	
DM	- Class 111	7	09/30/21	Assay N581 Aldehy	de Badge	255		Min	Formaldehyde			mod. OSHA 1	007: TPLC/UV	PD426	8	
DM	- Class 112	5	09/30/21	Assay N581 Aldehy	de Badge	255		Min	Formaldehyde			mod. OSHA 1	007: TPLC/UV	PD557	2	
DM	- Class 105	9	09/30/21	Assay N581 Aldehy	de Badge	256		Min	Formaldehyde			mod. OSHA 1	007: TPLC/UV	PD513	3	
DM - Hall 1061-1062 09/30/21 Assay N581 A						257		Min	Formaldehyde			mod. OSHA 1	007: TPLC/UV	PD432	2	
^G	alson Laboratorio	s will subsititute our	routine/preferred meth	od if it does no	t match	the method	listed on the	COC unless this box is	s checked: 🔽 Use n	method(s)	listed on COC					
	a se construit de la se a presenta a se a							required (only available			,					
For	crystalline silica	: form(s) of silica need	ed must be indicated	Quartz, Cristob	alite, an	d/or Tridym	nite)* :									
Cha	in of Custody	Prir	nt Name/Signature)ate	Time		Pri	int Name/	/Signature		Dat	9	Time	
Reli	nquished by :	Channing Jackso	on		10/	04/21	14:35	Received by :	22							
Reli	nquished by :							Received by :								
			* R		-			vill be considered as elds may result in a			g processed.		Pa	age_1	of _2_	

21100408

S	GS	GALSON	New Client?	Report To* : Ph	ase Sepa 30 Baltim	aration Sc ore Natio	ience nal Pike		Invoice T	∘* : <u>Phase S</u>	eparation	Scie	ence		
		UALUVII	Client Account I			ND 21228									

		rkville Rd racuse, NY 13057		Phone No.* : 41()-747-877	70			Phone N	lo.: <u>410-747-8</u>	770				
		5) 432-5227 8-432-LABS (5227)		Cell No. :					Ema	ail: <u>invoicing@</u>	phaseonline	com			
			E	mail Results to : <u>An</u>	ber Conf	er			P.O. No. : ODC 4920002-001						
	www.s	gsgalson.com		Email address: rep	orting@p	haseonlin	e.com		Credit Ca	rd : 🗌 Card on Fi	ie 🗌 Call fe	or Cred	lit Card In	fo.	
					Samples sui	bmitted usin	g the FreePumpLoan™	Program	Samples s	ubmitted using th	e FreeSampling	Badge	s™ Proora	m	
	ed Results By:						-	_							
<u>ष</u>	Stand		Site Name : Dougla	ass MacArthur		Pro	ject : ACPS IAQ te	sting - 492	0002 Samı	oled by: Karl F	ord				
	4 Business D		Comments :											1	
	3 Business D		Dosimeter cartr	ige # noted in the	e (Hexav	elent Chro	omium Process) o	colum							
	2 Business D Next Day by 6		List description of ind	ustry or Process/interfe		ent in semnli	nπ area ·	State sample	s were	Please indicate w	which OEL this de	ta will	he used i	for ·	
	Next Day by N		·			onen oanipi		collected in (e.g., NY)							
	Same [Public grade s	chool building				VA MSHA Other (specify):							
		entification* 20 Characters)	Date Sampled	Collection Medium	Samp	e Volume de Time le Area*	Sample Units*: L, ml,min,in2,cm2,ft2	t2 Analysis Requested*			Method Refere	nce^	Process (e	nt Chromium e.g., welding sinting, etc.)*	
DM - Class 1064 09/30/21 Assay N581				Assay N581 Aldehyde Badge	256		Min	Formaldehy	de		mod, OSHA 1007: TI	PLC/UV	PD420		
DM -	Class 105	5	09/30/21	Assay N581 Aldehyde Badge	258		Min	Formaldehy	de	· · · · · · · · · · · · · · · · · · ·	mod. OSHA 1007: TI	PLC/UV	PD548	1	
DM -	Hall 1053		09/30/21	Assay N581 Aldehyde Badge	255		Min	Formaldehyde			mod. OSHA 1007: TI	PLC/UV	OZ553	3	
DM -	1035/Cafe		09/30/21	Assay N581 Aldehyde Badge	259		Min	Formaldehyde mod. OSHA 1007: TPLC/UV PD48.				PD484	2		
<u>yunu manakan ini</u>															
										<u> </u>					
^Gals	son Laboratorie	s will subsititute our	routine/preferred meth	lod if it does not match	the method	listed on the	COC unless this box is	s checked: 🖌	Use method(s	i) listed on COC	*				
							required (only available								
For ci	rystalline silica	: form(s) of silica need	led must be indicated (Quartz, Cristobalite, ar	d/or Tridym	nite)* :									
Chain	of Custody	Pri	nt Name/Signature		Date	Time			Print Nam	e/Signature		Dat	e	Time	
Relina	quished by :	Channing Jacks	on	10/	04/21	14:35	Received by :		200	ە. مۇرى					
Relind	quished by :						Received by :								
			* R				vill be considered as elds may result in a			ng processed.		Р	age_1_	of _2_	



SCIENCE

Project Name: ACPS IAQ PSS Project No.: 21100408

Client Name	Total Environmental Concepts -	Lorto	Received By	Brad Crozi	er	
Disposal Date	11/08/2021		Date Received	10/04/2021	02:35:00 PM	
			Delivered By	Client		
			Tracking No	Not Applicable		
			Logged In By	Amber Cor	nfer	
Shipping Contai	iner(s)					
No. of Coolers	0					
			lce		/A	
Custody Seal(s	•	N/A	Temp (deg			
Seal(s) Signed	/ Dated?	N/A	Temp Blank	Present N	0	
Documentation			Sampler Na		l Ford	
COC agrees wi	th sample labels?	Yes	MD DW Ce	rt. No. <u>N/A</u>	1	
Chain of Custo	dy	Yes				
Sample Contain	er		Custody Se	al(s) Intact?	Not Applicable	
Appropriate for	Specified Analysis?	Yes	Seal(s) Sigr	ned / Dated	Not Applicable	
Intact?		Yes		lou / Datoa		
Labeled and La	abels Legible?	Yes				
Holding Time			Total No. of	Samples Re	eceived 15	
All Samples Re	eceived Within Holding Time(s)?	Yes	Total No. of	Containers	Received 15	
Preservation						
Total Metals			(pl	H<2)	N/A	
Dissolved Meta	lls, filtered within 15 minutes of co	ollectic	on (pl	H<2)	N/A	
Orthophosphor	us, filtered within 15 minutes of c	ollectio	on		N/A	
Cyanides			(pl	H>12)	N/A	
Sulfide				H>9)	N/A	
	ld filtered), COD, Phenols			H<2)	N/A	
TOX, TKN, NH	-			H<2)	N/A	
,	OA Vials Rcvd Preserved)		(pl	H<2)	N/A	
	ave zero headspace?				N/A	
,	d at least one unpreserved VOA	/ial)			N/A	
524 VOC (Revo	d with trip blanks)		(pl	H<2)	N/A	

Sample Receipt Checklist

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:

Date: 10/05/2021

PM Review and Approval:

NY Hackson

Amber Confer

Date: 10/05/2021

Lynn Jackson Page 14 of 14

Version 1.000

	SGS	GALSON	New Client?	Report To* :					Invoice T	o* :				
		UALUUT	Client Account N											
	6601 Kir	kville Rd		-										
	East Syı	acuse, NY 13057		Phone No.* :					Phone I	No.:				
		5) 432-5227 -432-LABS (5227)		Cell No. :					Em	ail :				
		. ,	E	mail Results to :					P.O. N	lo. :				
	www.sg	sgalson.com		Email address:					Credit Ca	rd : 📃 Card on Fi	ile 🗌 C	all for Cre	dit Card Ir	nfo.
	Need Results By:	(surcharge)		[Samples	submitted usir	ng the FreePumpLoan™	Program	Samples	submitted using th	e FreeSamp	lingBadge	es™Progra	am
	Standa	rd 0%	Site Name :			Pro	oject :		Sam	pled by :				
	4 Business Da	ys 35%	Comments :											
	3 Business Da	ys 50%												
	2 Business Da	ys 75%												
	Next Day by 6p	m 100%	List description of indu	stry or Process/int	erferences pr	esent in samp	ling area :	State samp		Please indicate w			l be used	for :
	Next Day by No	on 150%						collected in	(e.g., NY)	OSHA PEL	ACGIH	TLV	Cal	OSHA
	Same Da	ay 200%									Other (s	pecify):		
	Sample Identification* (Maxmium of 20 Characters) Date Sampled Collect				ım Sar	ple Volume nple Time nple Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested* Met			eference^	Process (nt Chromium e.g., welding painting, etc.)*	
^Ga	Ison Laboratories	will subsititute our	routine/preferred metho	od if it does not ma	I Itch the meth	od listed on th	l ne COC unless this box i	s checked:	Use method(s) listed on COC				
For	metals analysis: i	f requesting an anal	yte with the option of a	lower LOQ, please	indicate if the	e lower LOQ is	s required (only availabl	e for certain a						
For	crystalline silica:	form(s) of silica need	ded must be indicated (0	Quartz, Cristobalite	, and/or Trid	ymite)* :								
Chai	n of Custody	Pri	nt Name/Signature		Date	Time			Print Nam	ne/Signature		Da	te	Time
<u> </u>	nquished by :		-				Received by :			-				
L	nquished by :						Received by :							
	I		* Re			•	will be considered as fields may result in a			ing processed.	1	F	Page	of

	SGS	GALSON	New Client?	Report To* :					Invoice T	o* :				
		UALUUT	Client Account N											
	6601 Kir	kville Rd		-										
	East Syı	acuse, NY 13057		Phone No.* :					Phone I	No.:				
		5) 432-5227 -432-LABS (5227)		Cell No. :					Em	ail :				
		. ,	E	mail Results to :					P.O. N	lo. :				
	www.sg	sgalson.com		Email address:					Credit Ca	rd : 📃 Card on Fi	ile 🗌 C	all for Cre	dit Card Ir	nfo.
	Need Results By:	(surcharge)		[Samples	submitted usir	ng the FreePumpLoan™	Program	Samples	submitted using th	e FreeSamp	lingBadge	es™Progra	am
	Standa	rd 0%	Site Name :			Pro	oject :		Sam	pled by :				
	4 Business Da	ys 35%	Comments :											
	3 Business Da	ys 50%												
	2 Business Da	ys 75%												
	Next Day by 6p	m 100%	List description of indu	stry or Process/int	erferences pr	esent in samp	ling area :	State samp		Please indicate w			l be used	for :
	Next Day by No	on 150%						collected in	(e.g., NY)	OSHA PEL	ACGIH	TLV	Cal	OSHA
	Same Da	ay 200%									Other (s	pecify):		
	Sample Identification* (Maxmium of 20 Characters) Date Sampled Collect				ım Sar	ple Volume nple Time nple Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested* Met			eference^	Process (nt Chromium e.g., welding painting, etc.)*	
^Ga	Ison Laboratories	will subsititute our	routine/preferred metho	od if it does not ma	I Itch the meth	od listed on th	l ne COC unless this box i	s checked:	Use method(s) listed on COC				
For	metals analysis: i	f requesting an anal	yte with the option of a	lower LOQ, please	indicate if the	e lower LOQ is	s required (only availabl	e for certain a						
For	crystalline silica:	form(s) of silica need	ded must be indicated (0	Quartz, Cristobalite	, and/or Trid	ymite)* :								
Chai	n of Custody	Pri	nt Name/Signature		Date	Time			Print Nam	ne/Signature		Da	te	Time
<u> </u>	nquished by :		-				Received by :			-				
L	nquished by :						Received by :							
	I		* Re			•	will be considered as fields may result in a			ing processed.	1	F	Page	of

Appendix E: 4-PCH Analytical Results



Project Name: ACPS IAQ PSS Project No.: 21100407

October 13, 2021

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

Reference: PSS Project No: **21100407** Project Name: ACPS IAQ Project Location: Douglass MacArthur Elementary 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) **21100407**.

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 November 8, 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 PSS Project No.: 21100407

Project ID: 4920002

The following samples were received under chain of custody by Phase Separation Science (PSS) on 10/04/2021 at 02:35 pm

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
21100407-001	DM- Main Admin	AIR	09/30/21 00:00
21100407-002	DM- Gym	AIR	09/30/21 00:00
21100407-003	DM- Media Center	AIR	09/30/21 00:00
21100407-004	DM- Cafeteria	AIR	09/30/21 00:00
21100407-005	DM- Class 1072	AIR	09/30/21 00:00
21100407-006	DM- Class 1032	AIR	09/30/21 00:00
21100407-007	DM- Hall 1115	AIR	09/30/21 00:00
21100407-008	DM- Class 1117	AIR	09/30/21 00:00
21100407-009	DM- Class 1125	AIR	09/30/21 00:00
21100407-010	DM- Class 1059	AIR	09/30/21 00:00
21100407-011	DM- Hall 1061-1062	AIR	09/30/21 00:00
21100407-012	DM- Class 1064	AIR	09/30/21 00:00
21100407-013	DM- Class 1055	AIR	09/30/21 00:00
21100407-014	DM- Hall 1055	AIR	09/30/21 00:00
21100407-015	DM- Hall 1035/Cafe	AIR	09/30/21 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 contaminates, and part 141.3, for the secondary drinking water contaminates.
- 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

PSS Project No.: 21100407

Standard Flags/Abbreviations:

- В A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- С Results Pending Final Confirmation.
- Е The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1. Fail
- 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.
- PSS Reporting Limit. RL
- 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

October 13, 2021

Account# 15354

Login# L548404

Dear Amber Confer:

Enclosed are the analytical results for the samples received by our laboratory on October 06, 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-Luab

Lisa Swab Laboratory Director

Enclosure(s)



ANALYTICAL REPORT

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.sgsgalson.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.sgsgalson.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

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



6601 Kirkville Road East Syracuse, NY 13057

(315) 432-5227 FAX: (315) 437-0571 www.sgsgalson.com

LABORATORY ANALYSIS REPORT

Client	: Phase Separation Science, Inc.	Account No.: 15354
Site	: DOUGLAS MACARTHUR ELEMENTARY	Login No. : L548404
Project No.	: ACPS IAQ TESTING - 4920002	
Date Sampled	: 30-SEP-21	Date Analyzed : 09-OCT-21
Date Received	: 06-OCT-21	Report ID : 1268947

4-Phenylcyclohexene (4PCH low LOQ)

Sample ID	Lab ID	Air Vol liter	Front uq	Back uq	Total uq	Conc mg/m3	ppm
DM - MAIN ADMIN	L548404-1	51.4	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - GYM	L548404-2	51.6	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - MEDIA CENTER	L548404-3	51.6	<0.2	<0.2	<0.2	<0.004	<0.0006
DM – CAFETERIA	L548404-4	51.6	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - CLASS 1072	L548404-5	51.6	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - CLASS 1032	L548404-6	51.2	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - HALL 1115	L548404-7	51	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - CLASS 1117	L548404-8	51	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - CLASS 1125	L548404-9	51	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - CLASS 1059	L548404-10	51.2	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - HALL 1061-1062	L548404-11	51.4	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - CLASS 1064	L548404-12	51.2	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - CLASS 1055	L548404-13	51.6	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - HALL 1055	L548404-14	51	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - HALL 1035/CAFE	L548404-15	51.8	<0.2	<0.2	<0.2	<0.004	<0.0006

<u>COMMENTS:</u> Please see attached lab footnote report for any applicable footnotes.

Level of Quantitation: 0.2 ug	Submitted by: BDK	Approved by: MLN
Analytical Method : mod. NIOSH 1501; GC/PID Collection Media : 226-01	Date : 13-OCT-21 Supervisor : KAG	

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Version 1.000
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LABORATORY FOOTNOTE REPORT

Site 6601 Kirkville Road Date Sampled : 30-SEP-21 East Syracuse, NY 13057 (315) 432-5227 Date Received: 06-OCT-21 FAX: (315) 437-0571 Date Analyzed: 09-OCT-21 www.sgsgalson.com

Client Name : Phase Separation Science, Inc. : DOUGLAS MACARTHUR ELEMENTARY Project No. : ACPS IAQ TESTING - 4920002

> Account No.: 15354 Login No. : L548404

L548404 (Report ID: 1268947):

Total ug corrected for a desorption efficiency of 97%. SOPs: GC-SOP-16(27), GC-SOP-8(28), GC-SOP-12(20)

L548404 (Report ID: 1268947):

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
4-Phenylcyclohexene	(4PCH low LOQ)	+/-18%	88.2%

Page 4 of 7 Report Reference:1 Generated:13-OCT-21 13:21

ZZ2313E401651Z9938 Date: 10/06/21 Shipper: UPS Initials: MAK WWW.sgsgatson.com Need Results By: (surcharg) Image: Standard 0% 4 Business Days 50%	. / . 	No.*: Phone No.* Cell No. Email Results to Email address	Amber Conf reporting@p	nore Natic MD 21228 70 er ohaseonlir	onal Pike	Phone N Emi P.O. N Credit Car	lo.: <u>410-747-877</u>	haseonline.com 02-001	4)						
Prep:UNKNOWN www.sgsgatson.com Need Results By: (surcharg Standard 0% 4 Business Days 35% 3 Business Days 50%	a) Site Name : Dougl	Cell No. Ernail Results to Ernail address	: Amber Conf : reporting@p	er phaseonlir		Ema P.O. N Credit Car	ail : <u>invoicing@p</u> o. : <u>ODC 49200(</u>	haseonline.com 02-001	· ····································						
Need Results By: (surcharg Image: Standard 0% Image: A Business Days 35% Image: Business Days 50%) Site Name : Dougl	Email address	reporting@p	haseonlir		P.O. N Credit Car	o.: ODC 49200	02-001	· ····································						
Need Results By: (surcharg Image: Standard 0% Image: A Business Days 35% Image: Business Days 50%	Site Name : Dougl		Samples su				rd : Card on File	Call for Crec	lit Card Info						
Image: Standard 0% 4 Business Days 35% 3 Business Days 50%	Site Name : Dougl			bmitted usin	o the FreePumpt can TM										
Image: Standard 0% 4 Business Days 35% 3 Business Days 50%	Site Name : Dougl	ass MacArthur	r Elementary		ig the free amproati	Program Samples s	submitted using the	FreeSamplingBadges	™ Program						
4 Business Days 35% 3 Business Days 50%	Comments :	<u> </u>		Pro	oject : ACPS IAQ te	sting - 4920002 Sam	oled by : Karl For	rd							
						<u> </u>			<u> </u>						
2 Business Days 75%															
Next Day by 6pm 100%	List description of ind	dustry or Process/in	iterferences pres	ent in sampl	ling area :	State samples were		ich OEL this data will							
Next Day by Noon 150%	-Public grade	schoot			· · · · · · · · · · · · · · · · ·	collected in (e.g., NY)	OSHA PEL	ACGIH TLV Cat OSHA							
Same Day 200% Sample Identification* (Mexmium of 20 Characters)	Date Sampled	Collection Medi	ium Samp	e Volume de Time	Sample Units*:	Anabutia Pagu		Method Reference*	Hexavalent Chromium Process (e.g., welding						
DM - Main Admin	09/30/21	Sm Charcoal tubes / 22		le Area*	L	4-Phenylcyclohexene	·····	mod. NIOSH 1501	plating, painting, atc.)*						
DM - Gym	09/30/21	Sm Charcoal tubes / 22	26-01 51.6		L	4-Phenylcyclohexene	1	mod. NIOSH 1501							
DM - Media Center	09/30/21	Sm Charcoal tubes / 2	226-01 51.6		L	4-Phenylcyclohexene		mod. NIOSH 1501							
DM - Cafeteria	09/30/21	Sm Charcoal tubes / 22	26-01 51.6		L	4-Phenylcyclohexene		mod. NIOSH 1501							
DM - Class 1072	09/30/21	Sm Charcoal tubes / 22	26-01 51.6		L	4-Phenylcyclohexene	1	mod. NIOSH 1501							
DM - Class 1032	09/30/21	Sm Charcoal tubes / 22	26-01 51.2		L	4-Phenylcyclohexene		mod. NIOSH 1501							
DM - Hall 1115	09/30/21	Sm Charcoai tubes / 22	126-01 51.0		L	4-Phenylcyclohexene		mod. NIOSH 1501							
DM - Class 1117	09/30/21	Sm Charcoal tubes / 2	226-01 51.0		L	4-Phenylcyclohexene	1	mod. NIOSH 1501							
DM - Class 1125	09/30/21	Sm Charcoal tubes / 22	26-01 51.0		L	4-Phenylcyclohexene		mod. NIOSH 1501							
DM - Class 1059	09/30/21	Sm Charcoal tubes / 22	26-01 51.2		L	4-Phenylcyclohexene		mod. NIOSH 1501							
DM - Hall 1061-1062	09/30/21	Sm Charcoal tubes / 22	26-01 51.4		L	4-Phenylcyclohexene		mod. NIOSH 1501							
AGalson Laboratories will subsititute	our routine/preferred met	hod if it does not m	natch the method	l listed on th	e COC unless this box i	s checked: 🔽 Use method(s	s) listed on COC								
For metals analysis: if requesting an	nalyte with the option of a	a lower LOQ, please	e indicate if the l	ower LOQ is	required (only availabl	e for certain analytes - see SA	.G):								
For crystalline silica: form(s) of silica	needed must be indicated	(Quartz, Cristobalite	e, and/or Tridyn	nite)* :			· · · · · · · · · · · · · · · · · · ·								
Chain of Custody	Print Name/Signature		Date	Time		Print Nam	e/Signature	Dat	e Time						
Relinquished by : Channing Ja	kson		10/04/21	14135	Received by :	al	<u>`~</u> ~								
Relinquished by :					Received by : N	Lichelle Krouse	W. Ballo to	106	21 1046						

SGS	GALSON	New Client Client Account	66	30 Baltin	aration Sonore Nation	onal Pike	ti	nvoice To*	Phase Se	eparation	Scien	Se
Tel: (315) 888-4	cuse, NY 13057		Phone No.* :41 Cell No. : Email Results to :An Email address:re	nber Con porting@j	fer phaseonlir		c	Email P.O. No. Credit Card	: <u>410-747-87</u> : <u>invoicing@</u> : <u>ODC 49200</u> : Card on Fil	phaseonline 002-001 le Call f	for Credit (
Need Results By:	(surcharge)			Samples st	Ibmitted usin	g the FreePumpLoan™	Program	Samples sut	omitted using the	e FreeSampling	gBadges™l	Program
Standard	0%	Site Name : Doug	ass MacArthur El	ementary	/ Pro	ject : ACPS IAQ te	sting - 4920002	2 Sample	d by: Karl Fo	ord		
4 Business Days 3 Business Days 2 Business Days Next Day by 6pm	50% 75%	Comments :	lustry or Process/Interfi		sent in sampl	ing area :	State samples were	e P	lease indicate w	hich OEL this d	lata will be	used for :
Next Day by Noon Same Day	150%	Public grade	,				collected in (e.g., NY) Image: OSHA PEL VA Image: MSHA				/ - [
Sample Identification* Date Sampled Collection (Maxmium of 20 Characters)				Sam	le Volume ole Time ole Area*	Sample Units*: L, m1,min,in2,cm2,ft2	Analy	ysis Request	ed*	Method Refer	ence^ Pr	xavalent Chromium ocess (e.g., welding sting, painting, etc.)*
DM - Class 1064		09/30/21	Sm Charcoal tubes / 226-01	51.2		L	4-Phenylcyclohexene			mod. NIOSH	1 1501	
DM - Class 1055		09/30/21	Sm Charcoal tubes / 226-01	51.6		L	4-Phenylcyclohexene			mod. NIOSH	1 1501	
DM - Hall 10535	0.2 10/512	09/30/21	Sm Charcoal tubes / 226-01	51.0		L	4-Phenylcyclohexene			mod. NIOSH 1501		
0M - Hall 1035/Ca	fe	09/30/21	Sm Charcoal tubes / 226-01	51.8		L	4-Phenylcyclohex	kene		mod. NIOSH	1501	
			Sm Charcoal tubes / 226-01			L	4-Phenylcyclohex	kene		mod. NIOSH	1501	
			Sm Charcoal tubes / 226-01	Τ		L	4-Phenylcyclohex	kene		mod, NIOSH	1501	
		-	Sm Charcoal tubes / 226-01			L	4-Phenylcyclohex	kene		mod. NIOSH	1501	
······			Sm Charcoal tubes / 226-01			L	4-Phenyicyclohex	kene		mod. NIOSH	1501	
		ni in the second se	Sm Charcoal tubes / 226-01	1		L	4-Phenylcyclohex	kene		mod. NIOSH	1501	
			Sm Charcoal tubes / 226-01			L.	4-Phenylcyclohex	kene		mod. NIOSH	1501	
			Sm Charcoal tubes / 226-01			L	4-Phenylcyclohex	kene		mod. NIOSH	1501	
AGalson Laboratories w For metals analysis: if m	equesting an anal	ytë with the option of a	a lower LOQ, please inc	licate if the l	lower LOQ is							
For crystalline silica: for		······	Date	Time	T	Print Name/Signature					Time	
Relinguished by : Ch				/04/21	11me 4:35	Received by :	- Call				Date	11116
Relinquished by :					1.122	Received by :	1.1.N. V		- 		dut	4 1046
	·····	* R				will be considered as elds may result in a	next day's busin	ess	processed.	Kyrande	Pag	



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21100407-002 DM- Gym 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-003 DM- Media Center 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-004 DM- Cafeteria 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-005 DM- Class 1072 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-006 DM- Class 1032 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-006 DM- Class 1117 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-007 DM- Hall 1115 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-010 DM- Class 1125 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON <	hase Separation S 530 Baltimore Na altimore, MD 212 none: (410) 747-8 ax: (410) 788-872	ntional Pike 228 8770 23		Proj Proj	D. No. : lect Location lect Number : loort To LOD	4920002	6601 East S	North America - N Kirkville Road Syracuse, NY 1305 GGS Galson Labs. b	7
Lab Field Date Time Matrix Analyses Required Method Type of Container Preservative 2100407-001 DM-Main Admin 09/3021 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 2100407-002 DM-Gym 09/3021 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 2100407-002 DM-Gym 09/3021 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 2100407-005 DM-Chasi Orac 09/3021 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 2100407-005 DM-Chasi 1072 09/3021 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 2100407-006 DM-Class 1032 09/3021 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 2100407-010 DM-Class 1032 09/3021 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 2100	or Questions of	r issues please contact: A	mber Confer		Report D	Due On :10/13/21 05:00		315-432-5227	
2110407-002 DM- Gym 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-003 DM- Media Center 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-003 DM- Cateeria 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-005 DM- Class 1072 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-005 DM- Class 102 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-006 DM- Class 102 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-006 DM- Class 1125 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-010 DM- Class 1059 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON <td></td> <td></td> <td></td> <td>Time</td> <td></td> <td></td> <td>Method</td> <td></td> <td>Preservative</td>				Time			Method		Preservative
21100407-003 DM-Media Center 09/30/21 00:00 Air 4 Theory Diskness VARIOUS NONSC NON 21100407-004 DM-Cateteria 09/30/21 00:00 Air 4 Phenylcyclohexene VARIOUS NONSC NON 21100407-005 DM-Class 1032 09/30/21 00:00 Air 4 Phenylcyclohexene VARIOUS NONSC NON 21100407-006 DM-Class 1032 09/30/21 00:00 Air 4 Phenylcyclohexene VARIOUS NONSC NON 21100407-006 DM-Class 1032 09/30/21 00:00 Air 4 Phenylcyclohexene VARIOUS NONSC NON 21100407-007 DM-Hall 1115 09/30/21 00:00 Air 4 Phenylcyclohexene VARIOUS NONSC NON 21100407-010 DM-Class 1125 09/30/21 00:00 Air 4 Phenylcyclohexene VARIOUS NONSC NON 21100407-010 DM-Class 1050 09/30/21 00:00 Air 4 Phenylcyclohexene VARIOUS NONSC NON <td>21100407-001</td> <td>DM- Main Admin</td> <td>09/30/21</td> <td>00:00</td> <td>Air</td> <td>4-Phenylcyclohexene</td> <td>VARIOUS</td> <td>NONSC</td> <td>NON</td>	21100407-001	DM- Main Admin	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21100407-004 DM- Cafeteria 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-005 DM- Class 1072 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-006 DM- Class 1032 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-006 DM- Class 1032 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-007 DM-Hall 1115 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-009 DM-Class 1125 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-010 DM-Class 1052 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-012 DM- Class 1055 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON	21100407-002	DM- Gym	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21100407-005 DM- Class 1072 09/30/21 00/00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-006 DM- Class 1032 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-007 DM- Hall 1115 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-007 DM- Hall 1115 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-009 DM- Class 1175 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-010 DM- Class 1059 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-011 DM- Hall 1061-1062 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-015 DM- Class 1055 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON </td <td>21100407-003</td> <td>DM- Media Center</td> <td>09/30/21</td> <td>00:00</td> <td>Air</td> <td>4-Phenylcyclohexene</td> <td>VARIOUS</td> <td>NONSC</td> <td>NON</td>	21100407-003	DM- Media Center	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21100407-006 DM- Class 1032 09/30/21 00:00 Air 4-Phenyloyclohexene VARIOUS NONSC NON 21100407-007 DM- Hall 1115 09/30/21 00:00 Air 4-Phenyloyclohexene VARIOUS NONSC NON 21100407-007 DM- Hall 1115 09/30/21 00:00 Air 4-Phenyloyclohexene VARIOUS NONSC NON 21100407-009 DM- Class 1125 09/30/21 00:00 Air 4-Phenyloyclohexene VARIOUS NONSC NON 21100407-010 DM- Class 1059 09/30/21 00:00 Air 4-Phenyloyclohexene VARIOUS NONSC NON 21100407-010 DM- Class 1064 09/30/21 00:00 Air 4-Phenyloyclohexene VARIOUS NONSC NON 21100407-012 DM- Class 1064 09/30/21 00:00 Air 4-Phenyloyclohexene VARIOUS NONSC NON 21100407-014 DM- Hall 1055 09/30/21 00:00 Air 4-Phenyloyclohexene VARIOUS NONSC NON	21100407-004	DM- Cafeteria	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21100407-007 DM- Hall 1115 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-008 DM- Class 1117 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-008 DM- Class 1125 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-010 DM- Class 1059 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-010 DM- Class 1059 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-012 DM- Class 1064 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-013 DM- Class 1055 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-015 DM- Hall 1055 09/30/21 00.00 Air 4-Phenylcyclohexene VARIOUS NONSC NON	21100407-005	DM- Class 1072	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21100407-008 DM- Class 1117 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-009 DM- Class 1125 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-009 DM- Class 1125 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-010 DM- Class 1059 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-012 DM- Class 1064 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-012 DM- Class 1055 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-014 DM- Hall 1055 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-015 DM- Hall 1035/Cafe 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON<	21100407-006	DM- Class 1032	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
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DM-Class 1059 D9/30/21 O0:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-011 DM- Class 1059 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-011 DM- Hall 1061-1062 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-012 DM- Class 1064 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-012 DM- Class 1055 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-013 DM- Class 1055 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-014 DM- Hall 1035/Cafe 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-015 DM- Hall 1035/Cafe 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON <tr< td=""><td>21100407-008</td><td>DM- Class 1117</td><td>09/30/21</td><td>00:00</td><td>Air</td><td>4-Phenylcyclohexene</td><td>VARIOUS</td><td>NONSC</td><td>NON</td></tr<>	21100407-008	DM- Class 1117	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
Image: Section of the sectio	21100407-009	DM- Class 1125	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
DM- Class 1064 09/30/21 00:00 Air 4-Phenylociclence VARIOUS NONSC NON 21100407-013 DM- Class 1055 09/30/21 00:00 Air 4-Phenylociclence VARIOUS NONSC NON 21100407-013 DM- Class 1055 09/30/21 00:00 Air 4-Phenylociclence VARIOUS NONSC NON 21100407-014 DM- Hall 1055 09/30/21 00:00 Air 4-Phenylociclence VARIOUS NONSC NON 21100407-015 DM- Hall 1035/Cafe 09/30/21 00:00 Air 4-Phenylociclence VARIOUS NONSC NON 21100407-015 DM- Hall 1035/Cafe 09/30/21 00:00 Air 4-Phenylociclence VARIOUS NONSC NON ata Deliverables Required: COA End Report Attn : reporting@phaseonline.com Send InvoiceAttn : invoicing@phaseonline.com bill No.:	21100407-010	DM- Class 1059	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
Index Index <th< td=""><td>21100407-011</td><td>DM- Hall 1061-1062</td><td>09/30/21</td><td>00:00</td><td>Air</td><td>4-Phenylcyclohexene</td><td>VARIOUS</td><td>NONSC</td><td>NON</td></th<>	21100407-011	DM- Hall 1061-1062	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21100407-014 DM- Hall 1055 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-014 DM- Hall 10355 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON 21100407-015 DM- Hall 1035/Cafe 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON Pata Deliverables Required: COA Perform Q.C. on Sample : end Report Attn : reporting@phaseonline.com Send InvoiceAttn : invoicing@phaseonline.com bill No.: Carrier :	21100407-012	DM- Class 1064	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
DM- Hall 1035/Cafe 09/30/21 00:00 Air Hall systemation Hall systemation Hall systemation ata Deliverables Required: COA 09/30/21 00:00 Air 4-Phenylcyclohexene VARIOUS NONSC NON ata Deliverables Required: COA Perform Q.C. on Sample :	21100407-013	DM- Class 1055	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
vata Deliverables Required: COA Perform Q.C. on Sample : end Report Attn : reporting@phaseonline.com Send InvoiceAttn : invoicing@phaseonline.com bill No.: Carrier : NPS Send InvoiceAttn : invoicing@phaseonline.com ndition Upon Receipt : Date : Time: Samples Received By : nples Relinquished By: Date : Time: Samples Received By : Samples Received By :	21100407-014	DM- Hall 1055	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
end Report Attn : reporting@phaseonline.com bill No.:	21100407-015	DM- Hall 1035/Cafe	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
mments : nples Relinquished By : Date : Time: Samples Received By : nples Relinquished By: Date : Time : Samples Received By:	end Repor	•t Attn : reporting@	phaseonline.com	UPS			-	avoicing@phaseo	nline.com
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	nples Relinquish	ed By:	Date :	Т	ime :	Samples Received By:			

Phase Separation Science	Case Narrative	6630 Baltimore National Pike Baltimore, MD 21228 410-747-8770 800-932-9047 www.phaseonline.com
Project Name: ACPS IAQ		
PSS Project No.: 21100407		

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.

21100407

(SGS	GALSON	New Client	? Report To* : F	Phase Sep 630 Baltir			Invoice T	Invoice To* : Phase Separation Science				
		GALOUN	Client Account		Baltimore,			<u></u>		····			
							<u></u>						
		irkville Rd /racuse, NY 13057		 Phone No.* :	10-747-87	70		Phone N	lo.: 410-747-8	770			
		15) 432-5227 8-432-LABS (5227)		Cell No. :				Em:	ail : invoicing@	phaseon	line.com		
			E	Email Results to :					o.: <u>ODC 4920</u>				
	www.s	gsgalson.com		Email address <u>: r</u>	eporting@	phaseonlir	ne.com	Credit Ca	rd : Card on Fi	ile 🗌 C	Call for Crec	lit Card In	fo.
	Need Results By	(surcharge)		Ŀ	Samples s	ubmitted usir	ig the FreePumpLoan™	Program Samples	submitted using th	ne FreeSamp	lingBadge	^{™ Progra}	m
	Stand	ard 0%	Site Name : Dougla	ass MacArthur I	Elementar	y Pro	oject : ACPS IAQ te	sting - 4920002 Sam	oled by: Karl F	ord			
	4 Business D	ays 35%	Comments :										
	3 Business C	ays 50%											
	2 Business D	ays 75%						·····	r				
	Next Day by 6	·	List description of ind	ustry or Process/inte	rferences pre	sent in sampl	ling area :	State samples were collected in (e.g., NY)	Please indicate w OSHA PEL			be used f	
	Next Day by N		Public grade s	school				VA	MSHA	Other (s			эпа
	Same I		Mit with an a state of the stat	I	Samo	le Volume						Hexavalen	t Chromium
Sample Identification* (Maxmium of 20 Characters)			Date Sampled	Collection Mediu	m Sam	ple Time ple Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*		Method R	eference^	Process (e.	.g., welding inting, etc.)*
DM - Main Admin			09/30/21	Sm Charcoal tubes / 226	-01 51.4		L	4-Phenylcyclohexene		mod. NIC	SH 1501		
DM	- Gym		09/30/21	Sm Charcoal tubes / 226	-01 51.6		L	4-Phenylcyclohexene		mod. NIC	SH 1501		
DM	- Media Cer	nter	09/30/21	Sm Charcoal tubes / 226	-01 51.6		L	4-Phenylcyclohexene		mod. NIC	SH 1501		
DM	- Cafeteria		09/30/21	Sm Charcoal tubes / 226	-01 51.6		L	4-Phenylcyclohexene		mod. NIC	SH 1501		
DM	- Class 107	2	09/30/21	Sm Charcoal tubes / 226	-01 51.6		L	4-Phenylcyclohexene		mod. NIC	SH 1501		
DM	- Class 103	2	09/30/21	Sm Charcoal tubes / 226	-01 51.2		L	4-Phenylcyclohexene		mod. NIC	SH 1501		
DM	- Hall 1115		09/30/21	Sm Charcoal tubes / 226	-01 51.0		L	4-Phenylcyclohexene		mod. NIC	SH 1501		
DM	- Class 111	7	09/30/21	Sm Charcoal tubes / 226	-01 51.0		L	4-Phenylcyclohexene		mod. NIC	SH 1501		
DM	- Class 112	5	09/30/21	Sm Charcoal tubes / 226	-01 51.0		L	4-Phenylcyclohexene		mod. NIO	SH 1501		
DM	- Class 105	9	09/30/21	Sm Charcoal tubes / 226	-01 51.2		L	4-Phenylcyclohexene		mod. NIC	SH 1501		
DM	- Hall 1061-	1062	09/30/21	Sm Charcoal tubes / 226	⁰¹ 51.4		L	4-Phenylcyclohexene		mod. NIC	SH 1501		
^G	alson Laboratori	s will subsititute our	routine/preferred meth	nod if it does not mat	ch the metho	d listed on th	e COC unless this box is	s checked: 🗹 Use method(s	i) listed on COC				
Før	metals analysis:	if requesting an analy	te with the option of a	lower LOQ, please i	ndicate if the	lower LOQ is	required (only available	e for certain analytes - see SA	G):				
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		Dat	e	Time	
Relinguished by : Channing Jackson			1	0/04/21	14:35	Received by :	alis						
Relinquished by :						<u> </u>	Received by :						
	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												

21100407

SGS GALSON			New Client	New Client? Report To* : Phase Separation Science 6630 Baltimore National Pike						eparation Sci	ence			
Client Account No.*:			-	Baltimore,										
									······					
		irkville Rd racuse, NY 13057		Phone No.* :	410-747-87	70		Phone N	lo.: 410-747-8	770				
	Tel: (3	15) 432-5227 8-432-LABS (5227)		Cell No. :					100	phaseonline.con	ı			
			E	mail Results to :	Amber Cor	P.O. N	P.O. No. : ODC 4920002-001							
	www.s	gsgalson.com		Email address:	eporting@	Credit Car	Credit Card : Card on File Call for Credit Card Info.							
				6	Samples s	ubmitted usin		Program Samples s	ubmitted using th	e FreeSemplingBada	Progra	m		
-	Need Results By	: (surcharge)		Samples submitted using the FreePumpLoan™ Program Samples submitted using the FreeSamplingBadges™ Program										
	Stand	lard 0%	Site Name : Dougla	ass MacArthur	Elementar	y Pro	ject : ACPS IAQ te	sting - 4920002 Samp	oled by : Karl F	ord				
	4 Business D		Comments :									I		
	3 Business [
	2 Business D							Charles and the second s	Diana indianta					
	Next Day by 6 Next Day by N		List description of industry or Process/interferences present in sampling area : State samples were Please indicate which OEL this data wi collected in (e.g., NY) OSHA PEL ACGIH TLV								Cal C			
	Same		Public grade s	school				VA		Other (specify):				
Sample Identification* (Maxmium of 20 Characters)			Date Sampled	Collection Mediu	m Sam	le Volume ple Time ple Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*		Method Reference^	Process (e	nt Chromium e.g., welding ainting, etc.)*		
DM - Class 1064			09/30/21	Sm Charcoal tubes / 226			L	4-Phenylcyclohexene	and a second second second second	mod. NIOSH 1501				
DM - Class 1055			09/30/21	Sm Charcoal tubes / 226	-01 51.6	in a maritetta an institut	L	4-Phenylcyclohexene		mod. NIOSH 1501				
DM	- Hall 1053	5 a. n 10/511	09/30/21	Sm Charcoal tubes / 22	5-01 51.0		L	4-Phenylcyclohexene		mod. NIOSH 1501				
DM	- Hall 1035/	Cafe	09/30/21	Sm Charcoal tubes / 226	-01 51.8		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 / 22	s-01		L	4-Phenylcyclohexene	na na mangang sa ng pina na ng pina na na ng pina na ng pina na ng pina ng pina ng pina ng pina ng pina ng pin	mod. NIOSH 1501				
				Sm Charcoal tubes / 226	-01		L	4-Phenylcyclohexene		mod. NIOSH 1501				
Sm Cha					-01	agananan arta araaning turktu	L	4-Phenylcyclohexene		mod. NIOSH 1501				
Sm Charcoal tubes / 226-01								4-Phenylcyclohexene mod. NIOSH 1501						
^Ga	Ison Laboratori	es will subsititute our	routine/preferred meth	nod if it does not ma	tch the metho	d listed on th	e COC unless this box is	s checked: 🔽 Use method(s) listed on COC					
For	metals analysis	if requesting an anal	yte with the option of a	lower LOQ, please	indicate if the	lower LOQ is	required (only available	e for certain analytes - see SA	G):			i		
For	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)*:													
Chai	n of Custody	Pri	nt Name/Signature		Date Time			Print Name/Signature		Da	te	Time		
Relinquished by : Channing Jacks			on		0/04/21	14:35	Received by :	ani	2 jun					
Reli	nquished by :						Received by :							
	Samples received after 3pm will be considered as next day's business * Bequired fields, failure to complete these fields may result in a delay in your samples being processed. Page 1 of 2											of _2		



SCIENCE

Project Name: ACPS IAQ PSS Project No.: 21100407

Client Name	Total Environmental Concepts -	- Lorto	Received By	Brad Crozi	er		
Disposal Date			Date Received	10/04/2021 02:35:00 PM			
Diopodai Dato			Delivered By	Client			
					-1-		
			Tracking No	Not Applicable			
			Logged In By	Amber Cor	nfer		
Shipping Contai	· · /						
No. of Coolers	0		las	N	/ •		
Custady Saal/a) Intent?	N/A	lce Tomp (dog		/A		
Custody Seal(s Seal(s) Signed		N/A	Temp (deg	k Present N	0		
			•				
Documentation	ith completelet	Vaa	Sampler Na MD DW Ce	Ford			
Chain of Custo	ith sample labels?	Yes Yes		rt. No. <u>N/A</u>	1		
		165					
Sample Contain		Vee	Custody Se	al(s) Intact?	Not Applicable		
Intact?	Specified Analysis?	Yes Yes	Seal(s) Sig	ned / Dated	Not Applicable		
Labeled and La	abels Legible?	Yes					
		100	Total No. of	f Samples Re	eceived 15		
Holding Time	eceived Within Holding Time(s)?	Yes		•			
		100	Total No. of	Received 15			
Preservation Total Metals			(n	H<2)	N/A		
	als, filtered within 15 minutes of c	ollectio		H<2)	N/A		
	rus, filtered within 15 minutes of c				N/A		
Cyanides	,			H>12)	N/A		
Sulfide			(p	H>9)	N/A		
TOC, DOC (fie	ld filtered), COD, Phenols		(p	H<2)	N/A		
TOX, TKN, NH	-			H<2)	N/A		
•	OA Vials Rcvd Preserved)		(p	H<2)	N/A		
	ave zero headspace?				N/A		
•	d at least one unpreserved VOA	vial)	,		N/A		
524 VOC (Reve	d with trip blanks)		(p	H<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:

Date: 10/05/2021

PM Review and Approval:

NY Jackson

Amber Confer

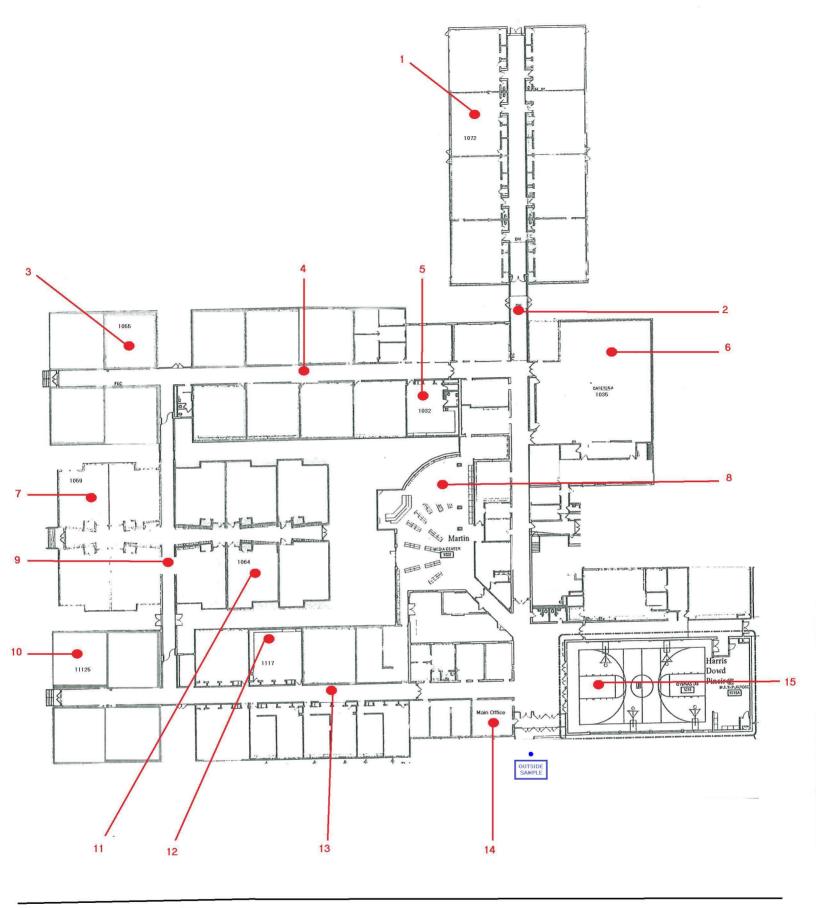
Lynn Jackson Page 14 of 14 Date: 10/05/2021

Version 1.000

	SGS	GALSON	New Client?	Report To* :					Invoice T	ō*:					
		UALUUT	Client Account N						-						
	6601 Kir	kville Rd		-											
	East Syı	acuse, NY 13057		Phone No.* :					Phone I	No.:					
		5) 432-5227 -432-LABS (5227)		Cell No. :					. Em	ail :					
		. ,	E	mail Results to :					P.O. N	lo. :					
	www.sg	sgalson.com		Email address:					Credit Ca	rd : 🗌 Card on Fi	ile 🗌 C	Call for Cre	dit Card lı	nfo.	
Need Results By: (surcharge)				[Samples	submitted usi	ng the FreePumpLoan™	Program	Samples	les submitted using the FreeSamplingBadges [™] Program					
	Standa	rd 0%	Site Name :			Pro	oject :		Sam	pled by :					
	4 Business Da	ys 35%	Comments :												
	3 Business Da	ys 50%													
	2 Business Da	ys 75%													
	Next Day by 6p	m 100%	List description of indu	stry or Process/int	erferences pi	resent in samp	ling area :	ng area : State samples were Please				ate which OEL this data will be used for :			
	Next Day by No	on 150%				collected in			ected in (e.g., NY)	OSHA PEL			Cal	OSHA	
	Same Da	ay 200%								MSHA	Other (s	specify):			
Sample Identification* (Maxmium of 20 Characters)		Date Sampled	Collection Medium Sample Samp Samp			ne l mi min in 2 cm 2 ft 2		Analysis Requested*		Method Reference^ Pro		Process (nt Chromium e.g., welding painting, etc.)*		
^Ga	Ison Laboratories	will subsititute our	routine/preferred metho	od if it does not ma	I Itch the meth	nod listed on th	L ne COC unless this box i	s checked:	Use method	s) listed on COC					
For	metals analysis: i	f requesting an anal	yte with the option of a	lower LOQ, please	indicate if th	e lower LOQ is	s required (only availabl	e for certain							
For	crystalline silica:	form(s) of silica need	ded must be indicated (0	Quartz, Cristobalite	, and/or Trid	lymite)* :									
Chai	in of Custody	Pri	nt Name/Signature		Date	Time			Print Nan	ne/Signature		Da	te	Time	
Relinquished by :			-				Received by :			-					
<u> </u>	nquished by :						Received by :								
	I		* Re			•	will be considered as fields may result in a	-		ing processed.	I	F	Page	of	

	SGS	GALSON	New Client?	Report To* :					Invoice T	ō*:					
		UALUUT	Client Account N						-						
	6601 Kir	kville Rd		-											
	East Syı	acuse, NY 13057		Phone No.* :					Phone I	No.:					
		5) 432-5227 -432-LABS (5227)		Cell No. :					. Em	ail :					
		. ,	E	mail Results to :					P.O. N	lo. :					
	www.sg	sgalson.com		Email address:					Credit Ca	rd : 🗌 Card on Fi	ile 🗌 C	Call for Cre	dit Card lı	nfo.	
Need Results By: (surcharge)				[Samples	submitted usi	ng the FreePumpLoan™	Program	Samples	les submitted using the FreeSamplingBadges [™] Program					
	Standa	rd 0%	Site Name :			Pro	oject :		Sam	pled by :					
	4 Business Da	ys 35%	Comments :												
	3 Business Da	ys 50%													
	2 Business Da	ys 75%													
	Next Day by 6p	m 100%	List description of indu	stry or Process/int	erferences pi	resent in samp	ling area :	ng area : State samples were Please				ate which OEL this data will be used for :			
	Next Day by No	on 150%				collected in			ected in (e.g., NY)	OSHA PEL			Cal	OSHA	
	Same Da	ay 200%								MSHA	Other (s	specify):			
Sample Identification* (Maxmium of 20 Characters)		Date Sampled	Collection Medium Sample Samp Samp			ne l mi min in 2 cm 2 ft 2		Analysis Requested*		Method Reference^ Pro		Process (nt Chromium e.g., welding painting, etc.)*		
^Ga	Ison Laboratories	will subsititute our	routine/preferred metho	od if it does not ma	I Itch the meth	nod listed on th	L ne COC unless this box i	s checked:	Use method	s) listed on COC					
For	metals analysis: i	f requesting an anal	yte with the option of a	lower LOQ, please	indicate if th	e lower LOQ is	s required (only availabl	e for certain							
For	crystalline silica:	form(s) of silica need	ded must be indicated (0	Quartz, Cristobalite	, and/or Trid	lymite)* :									
Chai	in of Custody	Pri	nt Name/Signature		Date	Time			Print Nan	ne/Signature		Da	te	Time	
Relinquished by :			-				Received by :			-					
<u> </u>	nquished by :						Received by :								
	I		* Re			•	will be considered as fields may result in a	-		ing processed.	I	F	Page	of	

Appendix F: Sampling Locations



Douglas MacArthur Elementary School

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

LEGEND

Radon

4633 Taney Avenue Alexandria, VA 22304



FLOOR PLAN

Appendix G: Photographs



Douglas MacArthur, Media Center



Douglas MacArthur, Gym



Douglas MacArthur, Hallway



Douglas MacArthur, Cafeteria



Douglas MacArthur, Classroom



Douglas MacArthur, Multi-purpose