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June 16, 2023

Mr. Brian Croyle, Environmental Specialist Montgomery County Public Schools Division of Sustainability and Compliance 8301 Turkey Thicket Drive Gaithersburg, MD 20879

# Ref: Sampling for Asphalt Fumes and Hydrogen Sulfide Gas – 5.26.2023 Poolesville High School KCI Job No. 122302497

KCI Technologies Inc. (KCI) is submitting the following letter report detailing the findings of air sampling of Asphalt Fumes (benzene soluble fraction) and Hydrogen Sulfide gas at Poolesville High School located at 17501 W. Willard Rd. Poolesville, MD 20837 (subject site). Baseline sampling was conducted by KCI's Industrial Hygienist, Mr. Tyler McCleaf under the oversight of KCI's Certified Industrial Hygienist (CIH), Mr. Jonathan Coale.

# Background:

At Poolesville High School, current renovations and construction has raised concerns from student parents. Students and faculty have voiced concerns related to an odor present in the school while the roofing work is occurring. The parents are concerned the students are being exposed to unsafe conditions related to the asphalt fumes being produced during the roofing installation. MCPS contacted KCI to assist them in collecting data on the school's occupants' potential exposure to fumes related to the roofing work being conducted.

# Description of the Work Performed:

On May 26, 2023, KCI conducted air sampling for Asphalt Fumes (benzene soluble fraction) and Hydrogen Sulfide gas levels at Poolesville High School. The sampling of Asphalt Fumes (benzene soluble fraction) was done under method: Modified NIOSH 5042. This method will determine the total concentration of total particulate and the soluble fraction to which an individual is exposed. NIOSH has an adopted value of 5 mg/m<sup>3</sup> Threshold Limit Value (TLV) -Time-Weighted Average (TWA) for asphalt fumes. NIOSH's definition of TLV-TWA is the "concentration for a conventional 8-hour workday and a 40-hour workweek, to which it is believed that nearly all workers may be repeatedly exposed, day after day, for a working lifetime without adverse effect". KCI also utilized a mulit-gas meter to collect real time readings of hydrogen sulfide (H<sub>2</sub>S), carbon monoxide (CO), and oxygen (O<sub>2</sub>) levels in various locations throughout the building and exterior. Direct read data was performed to collect short term "grab" samples to determine if the gas was present and was not intended to collect exposure data.

During the time of the air sampling, construction was being conducted, there was no asphalt smell noted outside of the building. KCI placed six (6) sampling pumps set to approximately 1 liter per minute in locations pre-determined by MCPS. It is KCI's understanding that the sample locations selected by MCPS were where complaints were made from students. After all sampling pumps were placed, KCI took real time readings of the hydrogen sulfide levels at each of these locations every 30 minutes inside and

every 30 minutes outside. A sampling location map can be found in attachment A.

KCI conducted the screening from approximately 08:15 until 14:30. Conditions during the sampling period were mostly sunny with temperatures between  $57^{\circ}F - 73^{\circ}F$ . Winds were between 3 and 8mph from WNW and NNE.

After sampling, the cassettes were sealed, logged, bagged, and shipped as required to Galson Laboratories in East Syracuse, NY, where they were analyzed for Asphalt Fume (benzene soluble fraction) Modified NIOSH Method 5042. Galson Laboratories is accredited by the American Industrial Hygiene Association (#100324).

# <u>Results:</u>

Table 1 – Asphalt Fumes Sampling Summary									
Location	Sample Number	Concentration (mg/m <sup>3</sup> )	Above TLV-TWA?						
Hallway – Outside Room 31	PHS - 01H	<0.28	No						
Hallway – Outside Room 20	PHS – 02H	<0.28	No						
Outside of Gym Entrance (exterior)	PHS – 03H	<0.28	No						
New Gym Hallway	PHS - 04H	<0.28	No						
Science Building 2 <sup>nd</sup> Floor – Outside Room 284	PHS – 05H	<0.28	No						
West End of Portables	PHS - 06H	<0.28	No						
Field Blank	PHS - 07H	N/A	N/A						
Lab Blank	PHS – 08H	N/A	N/A						
N/A: Not Applicable									

### **Asphalt Fumes (Benzene Soluble Fraction)**

Laboratory analysis results are included as Attachment B.

# **Gas Meter Readings**

Table 2 – Multi-Gas Meter Sampling Summary								
TimeOxygen (O2)Carbon Monoxide (CO)Hydrogen Sulfide (H2S)								
8:15 - 8:45	20.8	0	0					
9:30 - 9:55	20.8	0	0					
10:45 - 11:15	20.8	0	0					
12:40 - 13:00	20.8	0	0					
13:45 - 14:30	20.8	0	0					

# **Olfactory Findings**

During walkthroughs, KCI noted the following asphalt smells:

Tabl	Table 3 – Olfactory Investigation Summary									
Location	Findings									
Location	Morning	Mid-Day	End of Day							
Exterior Outside New Main	No Asphalt Smell	No Asphalt Smell	No Asphalt Smell							
Office										
Exterior Between Main Building	No Asphalt Smell	No Asphalt Smell	No Asphalt Smell							
& Science/Tech Addition										
Exterior By Portables	No Asphalt Smell	No Asphalt Smell	No Asphalt Smell							
Main Lobby	No Asphalt Smell	No Asphalt Smell	No Asphalt Smell							
Art Hallway	No Asphalt Smell	No Asphalt Smell	No Asphalt Smell							
Auditorium Corridor	No Asphalt Smell	No Asphalt Smell	No Asphalt Smell							
Gym Hallway	No Asphalt Smell	No Asphalt Smell	No Asphalt Smell							
Science and Technology	No Asphalt Smell	No Asphalt Smell	No Asphalt Smell							
Addition	-	_	_							
Staff Parking Lot	No Asphalt Smell	No Asphalt Smell	Light Asphalt Smell							

# Conclusion:

In conclusion, the baseline sampling data determined airborne Asphalt Fumes concentrations were below the NIOSH TLV-TWA adopted value during the period of sampling. In addition,  $H_2S$  and CO concentrations were not present or at concentrations below the gas meters detectable range. Oxygen levels were at the expected levels.

During sampling, asphalt roofing activities were being performed.

If you have questions or comments regarding this report, please contact me.

Sincerely, KCI Technologies, Inc

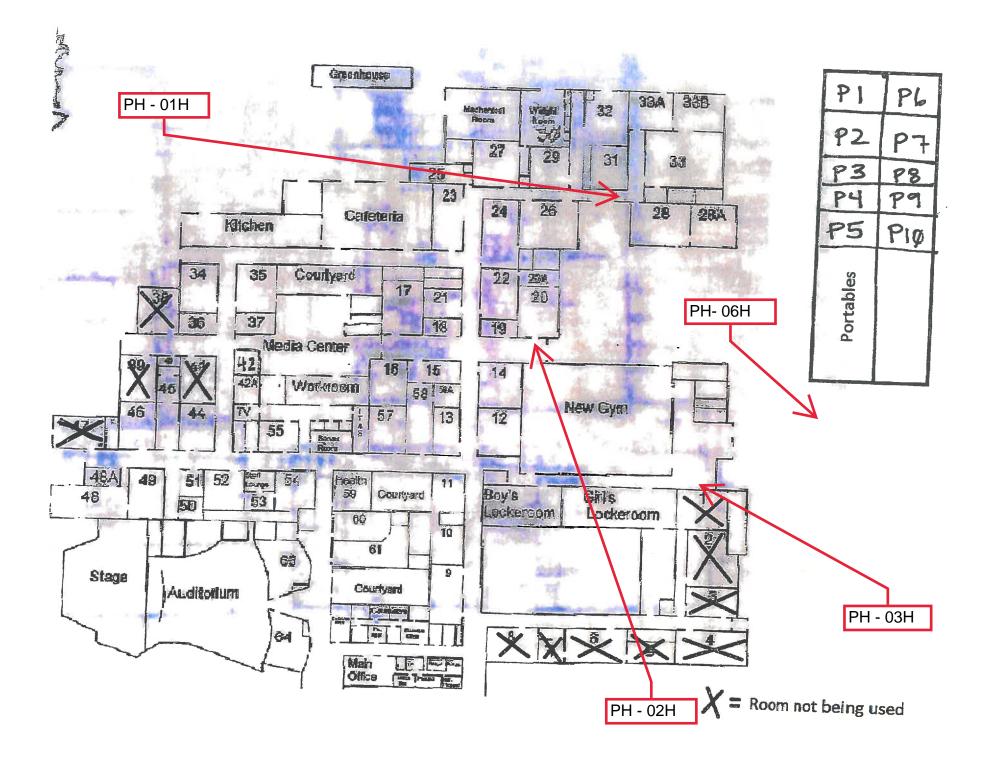
Tyler McCleaf

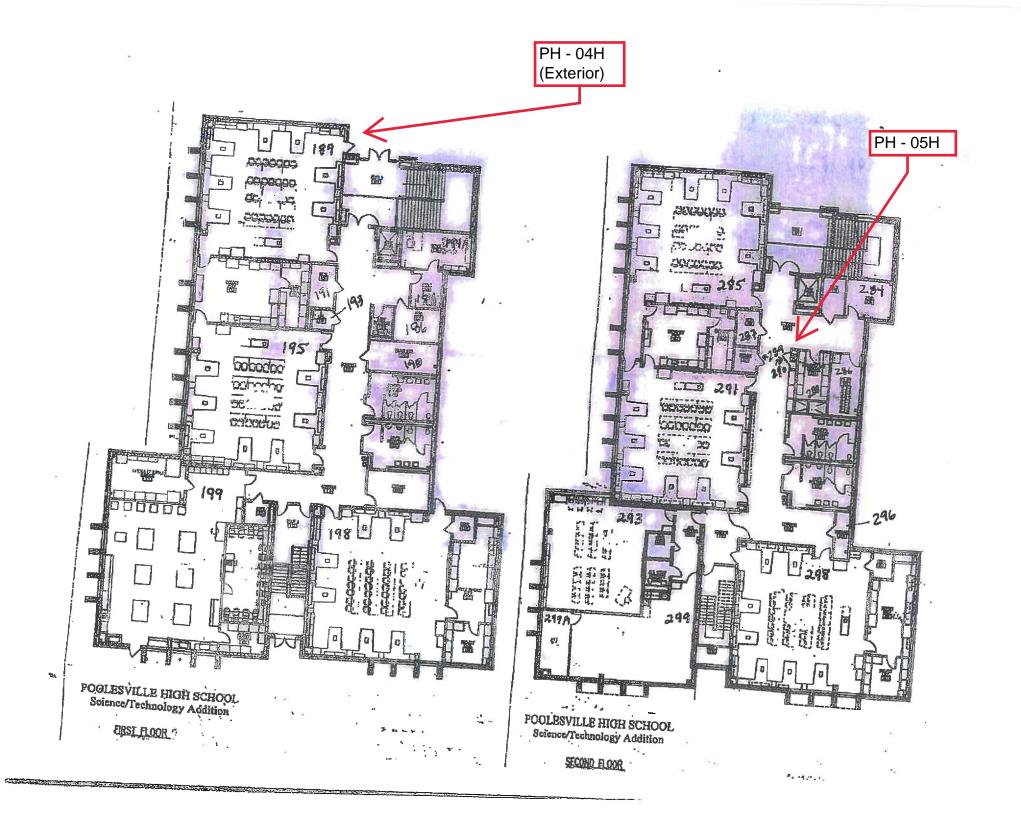
Tyler McCleaf, CSP Industrial Hygienist KCI Technologies, Inc.

Attachment A: Sample Locations Attachment B: Laboratory Certificate of Analysis Report for Air Samples

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# Attachment A Sample Locations





# Attachment B Laboratory Certificate of Analysis Report for Air Samples



Jon Coale KCI Technologies 936 Ridgebrook Road Sparks Glencoe, MD 21152 June 05, 2023

Account# 17844

Login# L595567

**Dear Jon Coale:** 

Enclosed are the analytical results for the samples received by our laboratory on May 31, 2023. 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 <a href="http://www.sgs.com/en/Terms-and-conditions.aspx">http://www.sgs.com/en/Terms-and-conditions.aspx</a>. 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 <a href="https://www.sgsgalson.com">www.sgsgalson.com</a>.
- 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 <a href="http://www.sgsgalson.com">http://www.sgsgalson.com</a> 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
Louisiana (LDEQ)	LELAP	Lab ID: 04083	Air Analysis, Solid Chemical Materials

#### Legend

< - Less than > - Greater than	mg - Milligrams ug - Micrograms m2 - Cubia Matara	MDL - Method Detection Limit NA - Not Applicable	ppb - Parts per Billion 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



### LABORATORY ANALYSIS REPORT

6601 Kirkville Road East Syracuse, NY 13057 (315) 432-5227 FAX: (315) 437-0571 www.sgsgalson.com Client: KCI TechnologiesSite: 5.26.23Project No.: POOLESVILLE HSDate Sampled: 26-MAY-23Date Received: 31-MAY-23

Account No.: 17844 Login No. : L595567

Date Analyzed : 05-JUN-23 Report ID : 1361619

#### Asphalt Fumes (Benzene-Soluble Fraction)

<u>Sample ID</u>	<u>Lab ID</u>	Air Vol liter	Totalmq	Conc mg/m3
PH-01H	L595567-1	361	<0.10	<0.28
PH-02H	L595567-2	361	<0.10	<0.28
PH-03H	L595567-3	358	<0.10	<0.28
PH-04H	L595567-4	357	<0.10	<0.28
PH-05H	L595567-5	355	<0.10	<0.28
РН-06Н	L595567-6	356	<0.10	<0.28
PH-FBH	L595567-7	NA	<0.10	NA
PH-LBH	L595567-8	NA	<0.10	NA

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

Level of Quantitatic	on: 0.10 mg	Submitted by: KGB	Approved by: JGC
-	: mod. NIOSH 5042; Gravimetric	Date : 05-JUN-23	
Collection Media	: PTFE PW lu 37mm	Supervisor : JGC	



LABORATORY FOOTNOTE REPORT

Client Name : KCI Technologies Site : 5.26.23 Project No. : POOLESVILLE HS

Date Sampled : 26-MAY-23 Date Received: 31-MAY-23 Date Analyzed: 05-JUN-23 Account No.: 17844 Login No. : L595567

L595567 (Report ID: 1361619):

6601 Kirkville Road East Syracuse, NY 13057

FAX: (315) 437-0571

www.sgsgalson.com

(315) 432-5227

SOPs: ic-asphalt(26) BSF = Benzene Soluble Fraction

L595567 (Report ID: 1361619):

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
Asphalt Fumes (Benzene-Soluble Frac	tion) +/-15.7%	93%

Asphalt Fumes (Benzene-Soluble Fraction) +/-15.7%



# **CHAIN OF CUSTODY**

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Signal       Sample Volume Sample The Maximum of 20 Characters)       Date Sampled •       Collection Medium       Sample Volume Sample The Sample The Sa											Specify Limit(s)	Specify Other
Sample ID * Maximum of 20 Characters)       Date Sample 4*       Collection Medium       Sample Yourne Sample Area * Sample Area * in?, cm?, ff? *       Analysis Requested       Method Reference A       Hexavalent Chromium Process (e.g., welding, plating, painting, etc.)         PH-0 H       S.Z6.22       37mm 1um PW PTFE, 2pc (black band)       3C1       L       Asphalt Fume (Benzene Soluble Fraction)       mod. NIOSH 5042; Gravimetric       mod. NIOSH 5042; Gravimetric         PH-0 H       S.Z6.2       37mm 1um PW PTFE, 2pc (black band)       361       L       Asphalt Fume (Benzene Soluble Fraction)       mod. NIOSH 5042; Gravimetric         PH-0 H       S.Z6.2.23       37mm 1um PW PTFE, 2pc (black band)       361       L       Asphalt Fume (Benzene Soluble Fraction)       mod. NIOSH 5042; Gravimetric         of Custody       Print Name / Signature       Date       Time       Print Name / Signature       Date       / Time         Inquished By:       Www.map / Www.signature       Date       Time       Megan M. McGrath Mean / Map /	Name: 51 (	12	Project	: Poolesville HS	1	Sampled By :	THU N	$\gamma$	List description	of indus	try or Process/interferences	present in sampling area :
PH.01H       S.ZL.22       (black band)       SG1       L       soluble Fraction)       Gravimetric         PH.02H       S.ZL.23       (black band)       SG1       L       Asphalt Fume (Benzene Soluble Fraction)       mod. NIOSH 5042; Gravimetric         Af the method(s) indicated on the COC are not our routine/preferred method(s), we will substitute our routine/preferred methods. If this is not acceptable, check here to have us contact you.         Aif the method(s) indicated on the COC are not our routine/preferred method(s), we will substitute our routine/preferred methods. If this is not acceptable, check here to have us contact you.         Print Name / Signature       Date         Print Name / Signature       Date         Itinquished By:       The Received By:         Wou must fill in these columns for any samples which you are submitting.         Samples received after 3pm will be considered as next day's business.       Online COC No. : 271682         Prep No. : PSY489666       Account No. : 17844         Draft : 5/10/2023 2:18:16 PM         All services are rendered in accordance with the applicable SGS General Conditions of Service accessible via: http://www.sgs.com/en/Terms-and-Conditions.aspx	Sample ID *		te Sampled *	Collection Medium	Sa	mple Time	Liters Minutes		ysis Requested		Method Reference ^	
PH-0 ZH       37mm 1um PW PTFE, 2pc (black band)       36 /       A sphalt Fume (Benzene Soluble Fraction)       mod. NIOSE 5042; Gravimetric         ^ If the method(s) indicated on the COC are not our routine/preferred method(s), we will substitute our routine/preferred methods. If this is not acceptable, check here to have us contact you.         ain of Custody       Print Name / Signature       Date       Time       Print Name / Signature       Date / / Time         linquished By:       Thur Michart       S.2U-23       Usion       Received By:       Mcgan M. McGrath       Megan M. McGrath       Signature       Date / / Time         linquished By:       * You must fill in these columns for any samples which you are submitting. Samples received after 3pm will be considered as next day's business.       Online COC No.: 271682 Prep No.: PSY696666 Account No.: 17844 Draft: 5/10/2023 2:18:16 PM         All services are rendered in accordance with the applicable SGS General Conditions of Service accessible via: http://www.sgs.com/en/Terms-and-Conditions.aspx       And-Conditions.aspx	PH-01H				ipc 3	C1	L	-		ne	•	
PH + 0 Z H       S. Z L · Z's       36 1         ^ If the method(s) indicated on the COC are not our routine/preferred method(s), we will substitute our routine/preferred methods. If this is not acceptable, check here to have us contact you.         ain of Custody       Print Name / Signature       Date         Inquished By:       Print Name / Signature       Date         Inquished By:       Type M Clust       S ZU · Zis       Us wn         Received By:       Megan M. McGrath Type M / M / Zis       S ZU · Zis         Inquished By:       You must fill in these columns for any samples which you are submitting.       Online COC No. : 271682         Samples received after 3pm will be considered as next day's business.       Online COC No. : 271682         Prep No. : PSY696666       Account No. : 17844         Draft : 5/10/2023 2:18:16 PM				37mm 1um PW PTFE, 2	pc		/	Asphalt	Fume (Benzer	ne	mod. NIOSH 5042;	
^ If the method(s) indicated on the COC are not our routine/preferred method(s), we will substitute our routine/preferred methods. If this is not acceptable, check here to have us contact you.         ain of Custody       Print Name / Signature       Date       Time       Print Name / Signature       Date / / Time         inquished By:       Junit Mather of Summer of	PULIZI		77127	(black band)	- 0	/ 1	L	Soluble	Fraction)		Gravimetric	
nin of Custody       Print Name / Signature       Date       Time       Print Name / Signature       Date / / Time         inquished By :       Implicible Science       S.26:23       Usin       Received By :       Megan M. McGrath Wight // Micht Science       <	1 110 019		>. 26.0 1		دے	61						
inquished By : inquished By : * You must fill in these columns for any samples which you are submitting. Samples received after 3pm will be considered as next day's business. All services are rendered in accordance with the applicable SGS General Conditions of Service accessible via: http://www.sgs.com/en/Terms-and-Conditions.aspx	^ If the method(s) indicat	ted on the C	OC are not our re	outine/preferred method(s)	, we will substite	ute our routine/	preferred methods	. If this is not a	cceptable, check	here to	have us contact you.	
inquished By :       Received By :       Online COC No. : 271682         * You must fill in these columns for any samples which you are submitting.       Samples received after 3pm will be considered as next day's business.       Online COC No. : 271682         Samples received after 3pm will be considered as next day's business.       Draft : 5/10/2023 2:18:16 PM         All services are rendered in accordance with the applicable SGS General Conditions of Service accessible via: <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a>	in of Custody		Print Name / Sigr	nature	Date	Time		<b>Ъ</b> <i>K</i>		•		
You must fill in these columns for any samples which you are submitting.     Samples received after 3pm will be considered as next day's business.     Samples received after 3pm will be considered as next day's business.     All services are rendered in accordance with the applicable SGS General Conditions of Service accessible via: http://www.sgs.com/en/Terms-and-Conditions.aspx	linquished By :	In v	net	Tyler Michet	5.26.23	16m	Received By :	Mega	n M. McQ	Fratl	1 Megen M. W. T. A.	<u> </u>
All services are rendered in accordance with the applicable SGS General Conditions of Service accessible via: http://www.sgs.com/en/Terms-and-Conditions.aspx	inquished By :	,		.,			Received By :					
Samples received after 3pm will be considered as next day's business. Account No. : 17844 Draft : 5/10/2023 2:18:16 PM All services are rendered in accordance with the applicable SGS General Conditions of Service accessible via: http://www.sgs.com/en/Terms-and-Conditions.aspx				* You must fi	ill in these colur	nns for any sam	ples which you ar	e submitting.				
All services are rendered in accordance with the applicable SGS General Conditions of Service accessible via: http://www.sgs.com/en/Terms-and-Conditions.aspx				Samples r	eceived after 3p	m will be consi	dered as next day's	s business.			•	
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e : 1 / 2 SGS North   6601 Kirkville Road E. Syracuse, NY 13057, USA t +1 888 432 5227   +1 315 432 5227 www.galsonlabs.com   www.sgs.com					COC N .		Paad E Comercia	55 NV 12057	10.4 + 11 000 400	0 E 0 0 7 1	1 215 422 5227	volabe com Lynner cas com

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Comments :								
Sample ID * (Maximum of 20 Characters)	Date Sampled *	Collection Medium	Sar	ple Volume nple Time nple Area *	Liters Minutes in², cm², ft² *	Analysis Requested	Method Reference ^	Hexavalent Chromium Process (e.g., welding, plating, painting, etc.)
PH-0314	5,26-23	37mm 1um PW PTFE, 2 (black band)	pe S	58		Asphalt Fume (Benzene Soluble Fraction)	mod. NIOSH 5042; Gravimetric	
104-1-0411		37mm 1um PW PTFE, 2 (black band)	pc g	57		Asphalt Fume (Benzene Soluble Fraction)	mod. NIOSH 5042; Gravimetric	
PH-US H		37mm 1um PW PTFE, 2 (black band)	pc S	55		Asphalt Fume (Benzene Soluble Fraction)	mod. NIOSH 5042; Gravimetric	
814-061-1		37mm lum PW PTFE, 2 (black band)	DC	5.6		Asphalt Fume (Benzene Soluble Fraction)	moā. NIOSH 5042; Gravimetric	
PH-FBH		37mm 1um PW PTFE, 2 (black band)		AIN		Asphalt Fume (Benzene Soluble Fraction)	mod. NIOSH 5042; Gravimetric	
РН-ЦВН	4	37mm lum PW PTFE, 2 (black band)	pc	M	· · ·	Asphalt Fume (Benzene Soluble Fraction)	mod. NIOSH 5042; Gravimetric	
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^ If the method(s) indicated on	the COC are not our	routine/preferred method(s),	we will substitu	te our routine	preferred methods.	If this is not acceptable, check here		
Chain of Custody	Print Name / Sig	gnature	Date	Time -		Print Name / Sig	nature And t	Date Time
Relinquished By :	mete	$\mathcal{X}$			Received By :	Megan M. McGra	in Migen MI MIGHT	-5/31/23 11:2
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				• •	<b>nples which you are</b> dered as next day's	-	Online COC No. : 271 Prep No. : PS Account No. : 178 Draft : 5/10	(696666
A	Il services are render	ed in accordance with the app	olicable SGS Ge	neral Conditio	ns of Service access	ible via: <u>http://www.sgs.com/en/Te</u>	ms-and-Conditions.aspx	
Page : 2 / 2			SGS North	n   6601 Kirkvil	le Road E. Svracus	e, NY 13057, USA t+1 888 432 52	27   +1 315 432 5227 www.gals	onlabs.com   www.sgs.com

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Page 6 of 6 ReporteReference:1 Generated:05-JUN-23 18:36

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