1Source
Safety and Health, Inc.
Professionals Committed to Successful Solutions

April 5, 2017

Robert M. Convery
Maintenance Manager
Pier 3 Condominium Association
3 N. Delaware Avenue
Philadelphia, PA 19106

Re: Volatile Organic Compound Sampling
1Source Project No. PCON 0001

Dear Bob:

On March 28, 2017, 1Source Safety and Health, Inc. (1Source) conducted volatile organic compound (VOC) sampling at Pier 3 Condominiums located at 3 N. Delaware Avenue in Philadelphia, Pennsylvania. The sampling was conducted in response to health concerns expressed by a condominium resident regarding the recent floor finishing project.

1Source performed a visual inspection of the north hallway and south hallway on the third floor and found the floor finishing project completed. Air sampling for volatile organic compounds (VOC) was performed with a photoionization detector (PID), which is a hand-held direct reading instrument. Integrated air sampling for VOC analysis was performed with mini-cans (evacuated flasks) for a two hour period and sent out for laboratory analysis for 61 individual VOCs following modified Occupational Safety and Health Administration (OSHA) method PV2120 and modified Environmental Protection Agency (EPA) method TO15 (TO15 scan). The mini-cans were placed in the south hallway outside Unit 320 (Photo 1) and in the north hall elevator lobby (Photo 2). Examples of sample locations where VOC concentrations were measured with the PID are shown in Photos 2 through 6.

Sample Results

The following summarizes the results for the air sampling performed on March 28, 2017. The summary table for PID results and the SGS Galson Laboratory report are located in Attachments 2 and 3, respectively. Methods and Materials as well as References and Guidelines related to sample collection and results interpretation are located in Attachments 4 and 5, respectively.

The VOC sampling performed with the PID yielded concentrations below the instruments detection limit of less than 0.1 part per million (ppm). The air samples collected with the PID were at breathing zone height (approximately 4 feet from the floor) and at floor level.

With the exception of propylene in the south hallway sample location, all of the VOCs on the TO15 scan list had concentrations below their respective analytical limit of detection. Propylene was detected at 6.8 parts per billion (ppb) and is well below the odor threshold range of 10.1 parts per million (ppm) to 99 ppm as presented in the American Industrial Hygiene Association publication Odor Thresholds for Chemicals with Established Occupational Health Standards,

Second Edition. Also, propylene has odor characteristics of "gassy and/or aromatic". This means that propylene was detected by laboratory analysis, but was below a concentration where human olfactory sense can perceive it as an odor.

Recommendations

Based on the visual observations and sampling results no recommendations are provided.

Bob, if you have any questions regarding this report, please contact Harry Neill or John Ficke at (610) 524-5525 x15 or x22, respectively.

Sincerely,

1Source Safety and Health, Inc.

John R. Ficke Jr., CIH
Industrial Hygiene Manager

Harry M. Neill, CIH
Vice President

Attachment 1 – Photographs
Attachment 2 – SGS Galson Laboratory Reports
Attachment 3 – PID Results Table
Attachment 4 – Methods and Materials
Attachment 5 – References and Guidelines

1Source
Safety and Health, Inc.

Attachment 1

Photographs

Photograph Attachment
1Source Project No. PCON 0001

Photo 1

Photo 2

Photo 3

Photo 4

Photo 5

Photo 6

Photo 7

Photo 8

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Safety and Health, Inc.

Attachment 2

PID Results Table

1Source
Safety and Health, Inc.

Pier 3 Condominium Association
March 28, 2017
Photo Ionization Detector (PID)
Measurement Record

Measurement Location	Time of Day	PID Reading (ppm)
Third floor south hall outside Unit 302 at floor level	10:47 AM	0
Third floor south hall outside Unit 302 in breathing zone	10:50 AM	0
Third floor south hall outside Unit 304 at floor level	10:55 AM	0
Third floor south hall outside Unit 304 in breathing zone	10:57 AM	0
Third floor south hall outside Unit 308 at floor level	11:00 AM	0
Third floor south hall outside Unit 308 in breathing zone	11:02 AM	0
Third floor south hall outside Unit 310 at floor level	11:05 AM	0
Third floor south hall outside Unit 310 in breathing zone	11:07 AM	0
Third floor south hall outside Elev. Lobby at floor level	11:14 AM	0
Third floor south hall outside Elev. Lobby in breathing zone	11:16 AM	0
Third floor south hall outside Unit 316 at floor level	11:20 AM	0
Third floor south hall outside Unit 316 in breathing zone	11:22 AM	0
Third floor south hall outside Unit 320 at floor level	11:25 AM	0
Third floor south hall outside Unit 320 in breathing zone	11:27 AM	0
Third floor south hall outside Unit 330 at floor level	11:30 AM	0
Third floor south hall outside Unit 330 in breathing zone	11:32 AM	0
Third floor north hall outside Unit 329 at floor level	11:35 AM	0
Third floor north hall outside Unit 329 in breathing zone	11:37 AM	0
Third floor north hall outside Unit 325 at floor level	11:40 AM	0
Third floor north hall outside Unit 325 in breathing zone	11:42 AM	0
Third floor north hall outside Elev. Lobby at floor level	11:45 AM	0
Third floor north hall outside Elev. Lobby in breathing zone	11:47 AM	0
Third floor north hall outside Unit 315 at floor level	11:50 AM	0
Third floor north hall outside Unit 315 in breathing zone	11:52 AM	0
Third floor north hall outside Unit 311 at floor level	11:55 AM	0
Third floor north hall outside Unit 311 in breathing zone	11:57 AM	0
Third floor north hall outside Unit 309 at floor level	12:00 PM	0
Third floor north hall outside Unit 309 in breathing zone	12:02 PM	0
Third floor north hall outside Unit 303 at floor level	12:05 PM	0
Third floor north hall outside Unit 303 in breathing zone	12:07 PM	0
Third floor north hall outside Unit 301 at floor level	12:10 PM	0
Third floor north hall outside Unit 301 in breathing zone	12:12 PM	0

Date:	**3-28-17**	**PID Serial No.**	GAUA 0002
Calibration Time:		3-28-17 @ 8:30 AM	
Overall Location:		Third floor North and South Hallways	
Analyst Name:		John Ficke, CIH	

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Safety and Health, Inc.

Attachment 3

SGS Galson Laboratory Reports

SGS GALSON

Mr. John Ficke
1 Source Safety and Health, Inc.
140 South Village Avenue
Suite 130
Exton, PA 19341

April 05, 2017

DOH ELAP #11626
AIHA-LAP #100324

Account# 13790

Login# L402589

Dear Mr. Ficke:

Enclosed are the revised analytical results for the samples received by our laboratory on March 29, 2017. This report has been revised to update the sample ID for L402589-1 per client request. Please note that this revision cancels and supersedes L402589 (report reference:1) dated 4/4/17 issued by SGS Galson. All test results meet the quality control requirements of AIHA-LAP and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report, with the exception of IOMs, which will be cleaned and disposed of after seven calendar days.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

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

Sincerely,

SGS Galson Laboratories

Lisa Swab

Lisa Swab
Laboratory Director

Enclosure(s)

Galson Laboratories, Inc. is now a part of SGS, the world's leading inspection, verification, testing, and certification company. As part of our transition to SGS, you will begin to see some formatting changes with reports that will improve the presentation of data and allow for the transition to the new logo.

LABORATORY ANALYSIS REPORT

SGS GALSON

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

Client : 1 Source Safety and Health, Inc.
Site : Pier 3 Condominiums
Project No. : PCON0001

Date Sampled : 28-MAR-17
Date Received : 29-MAR-17
Date Analyzed : 30-MAR-17
Report ID : 988518

Account No.: 13790
Login No. : L402589
Units : ppbv

Galson ID:	LOQ	L402589-1	L402589-2
Client ID:	ppbv	PCON-032817-01 WA849	PCON-032817-02 WA457
Propylene	5.0	<5.0	6.8
Freon-12	5.0	<5.0	<5.0
Chloromethane	5.0	<5.0	<5.0
Freon-114	5.0	<5.0	<5.0
Vinyl Chloride	5.0	<5.0	<5.0
1,3-Butadiene	5.0	<5.0	<5.0
Bromomethane	5.0	<5.0	<5.0
Chloroethane	5.0	<5.0	<5.0
Vinyl Bromide	5.0	<5.0	<5.0
Freon-11	5.0	<5.0	<5.0
Isopropyl Alcohol	25	<25	<25
Acetone	25	<25	<25
1,1-Dichloroethene	5.0	<5.0	<5.0
Methylene Chloride	5.0	<5.0	<5.0
Freon-113	5.0	<5.0	<5.0
Allyl Chloride	5.0	<5.0	<5.0

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

QC by : KSB
Approved by : TLH
Date : 03-APR-17

Supervisor: TLH
NYS DOH # : 11626

< -Less Than mg -Milligrams m3 -Cubic Meters ppbv-Parts per Billion Volume NS -Not Specified L -Liters
> -Greater Than ug -Micrograms ND -Not Detected ppmv-Parts per Million Volume LOQ -Limit of Quantitation NA -Not Applicable

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Units : ppbv

Galson ID:	LOQ	L402589-1	L402589-2
Client ID:	ppbv	PCON-032817-01 WA849	PCON-032817-02 WA457
Carbon Disulfide	10	<10	<10
Trans-1,2-Dichloroethene	5.0	<5.0	<5.0
Methyl Tert-Butyl Ether	5.0	<5.0	<5.0
1,1-Dichloroethane	5.0	<5.0	<5.0
Vinyl Acetate	5.0	<5.0	<5.0
Methyl Ethyl Ketone	5.0	<5.0	<5.0
cis-1,2-Dichloroethylene	5.0	<5.0	<5.0
Hexane	5.0	<5.0	<5.0
Ethyl Acetate	5.0	5.4	<5.0
Chloroform	5.0	<5.0	<5.0
Tetrahydrofuran	5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	<5.0	<5.0
1,1,1-Trichloroethane	5.0	<5.0	<5.0
Cyclohexane	5.0	<5.0	<5.0
Carbon Tetrachloride	5.0	<5.0	<5.0
Benzene	5.0	<5.0	<5.0

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

QC by : KSB
Approved by : TLH
Date : 03-APR-17

Supervisor: TLH
NYS DOH # : 11626

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Date Sampled : 28-MAR-17
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Report ID : 988518

Account No.: 13790
Login No. : L402589
Units : ppbv

Galson ID:	LOQ	L402589-1	L402589-2
Client ID:	ppbv	PCON-032817-01 WA849	PCON-032817-02 WA457
1,4-Dioxane	20	<20	<20
2,2,4-Trimethylpentane	5.0	<5.0	<5.0
Heptane	5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	<5.0	<5.0
Trichloroethylene	5.0	<5.0	<5.0
Bromodichloromethane	5.0	<5.0	<5.0
cis-1,3-Dichloropropene	5.0	<5.0	<5.0
trans-1,3-Dichloropropene	5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	<5.0	<5.0
Toluene	5.0	5.8	<5.0
Dibromochloromethane	5.0	<5.0	<5.0
Methyl Isobutyl Ketone	20	<20	<20
Methyl Butyl Ketone	20	<20	<20
1,2-Dibromoethane	5.0	<5.0	<5.0
Tetrachloroethylene	5.0	<5.0	<5.0
Chlorobenzene	5.0	<5.0	<5.0

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

QC by : KSB
Approved by : TLH
Date : 03-APR-17

Supervisor: TLH
NYS DOH # : 11626

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Account No.: 13790
Login No. : L402589
Units : ppbv

Galson ID:	LOQ	L402589-1	L402589-2
Client ID:	ppbv	PCON-032817-01 WA849	PCON-032817-02 WA457
Ethylbenzene	5.0	<5.0	<5.0
Bromoform	5.0	<5.0	<5.0
m & p-xylene	10	<10	<10
Styrene	5.0	<5.0	<5.0
o-Xylene	5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	5.0	<5.0	<5.0
4-Ethyltoluene	5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	5.0	<5.0	<5.0
1,3-Dichlorobenzene	5.0	<5.0	<5.0
Benzyl Chloride	5.0	<5.0	<5.0
1,4-Dichlorobenzene	5.0	<5.0	<5.0
1,2-Dichlorobenzene	5.0	<5.0	<5.0

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

QC by : KSB
Approved by : TLH
Date : 03-APR-17

Supervisor: TLH
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LABORATORY FOOTNOTE REPORT

Client Name : 1 Source Safety and Health, Inc.
Site : Pier 3 Condominiums
Project No. : PCON0001

Date Sampled : 28-MAR-17
Date Received: 29-MAR-17
Date Analyzed: 30-MAR-17

Account No.: 13790
Login No. : L402589

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Unless otherwise noted below, 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. The findings herein constitute no warranty of the samples' representativeness of any sampled environment and strictly relate to the samples as they were presented to the laboratory.

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 preceeding 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 below, reported results have not been blank corrected for any field blank or method blank.

L402589 (Report ID: 988518):
SOPs: in-vocs(29)

L402589-1-2 (Report ID: 988518):
The sample canister was received at or near ambient pressure.

L402589-2 (Report ID: 988518):
Propylene results may be biased high due to co-elution with Propane.

< -Less Than	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms	ppm -Parts per Million		
> -Greater Than	ug -Micrograms	l -Liters	NS -Not Specified	ND -Not Detected	NA -Not Applicable	

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LABORATORY FOOTNOTE REPORT

Client Name : 1 Source Safety and Health, Inc.
Site : Pier 3 Condominiums
Project No. : PCON0001

Date Sampled : 28-MAR-17
Date Received: 29-MAR-17
Date Analyzed: 30-MAR-17

Account No.: 13790
Login No. : L402589

L402589 (Report ID: 988518):
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-Trichloroethane	+/-12%	97%
1,1-Dichloroethene	+/-13.7%	101%
1,2-Dichloroethane	+/-16.4%	102%
2,2,4-Trimethylpentane	+/-14.1%	99.7%
Allyl Chloride	+/-16.2%	103%
Carbon Tetrachloride	+/-13.9%	101%
cis-1,2-Dichloroethylene	+/-12.6%	101%
cis-1,3-Dichloropropene	+/-13%	98.9%
1,4-Dioxane	+/-16.7%	84%
Tetrachloroethylene	+/-13.7%	95.7%
Toluene	+/-12.1%	98.5%
1,2-Dichlorobenzene	+/-17.4%	93%
1,3,5-Trimethylbenzene	+/-15.7%	97.1%
Cyclohexane	+/-13.7%	101%
Trans-1,2-Dichloroethene	+/-12.6%	98.7%
Vinyl Chloride	+/-13.7%	101%
1,1-Dichloroethane	+/-13.1%	101%
1,2,4-Trimethylbenzene	+/-17.6%	97.2%
1,2-Dichloropropane	+/-13.4%	99.6%
4-Ethyltoluene	+/-16.1%	99.7%
Dibromochloromethane	+/-12.2%	97.3%
Methyl Isobutyl Ketone	+/-15.2%	103%
Chloroethane	+/-14.8%	102%
Heptane	+/-14.7%	103%
Methyl Butyl Ketone	+/-15.2%	102%
Tetrahydrofuran	+/-14.8%	92.4%
trans-1,3-Dichloropropene	+/-13.6%	104%

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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Site : Pier 3 Condominiums
Project No. : PCON0001

Date Sampled : 28-MAR-17
Date Received: 29-MAR-17
Date Analyzed: 30-MAR-17

Account No.: 13790
Login No. : L402589

Vinyl Acetate	+/-13.5%	94.1%
Vinyl Bromide	+/-13.1%	101%
1,3-Dichlorobenzene	+/-16.8%	94.7%
Bromoform	+/-17.6%	99.9%
Benzene	+/-12.4%	98.9%
Hexane	+/-12.8%	101%
1,1,2,2-Tetrachloroethane	+/-14.9%	96.9%
1,3-Butadiene	+/-15.8%	103%
Benzyl Chloride	+/-22.8%	98.1%
Chloroform	+/-12.6%	98.8%
Freon-11	+/-15.5%	102%
Freon-12	+/-19.4%	106%
Chloromethane	+/-15.5%	102%
Methylene Chloride	+/-11.8%	97.7%
Methyl Tert-Butyl Ether	+/-12.1%	100%
Styrene	+/-14.1%	98%
1,4-Dichlorobenzene	+/-17.4%	94.3%
Acetone	+/-15.4%	97.7%
Bromodichloromethane	+/-13.2%	98.9%
Carbon Disulfide	+/-12.5%	103%
Ethyl Acetate	+/-14.8%	101%
Freon-113	+/-12.6%	96.5%
Methyl Ethyl Ketone	+/-15%	104%
o-Xylene	+/-14.5%	98.3%
1,2-Dibromoethane	+/-11.1%	97.7%
Chlorobenzene	+/-11.5%	96.4%
Ethylbenzene	+/-13.2%	98.8%
Freon-114	+/-16.5%	96.9%
Isopropyl Alcohol	+/-14.2%	96.8%
1,1,1-Trichloroethane	+/-12.5%	95.3%
Bromomethane	+/-15%	101%
m & p-xylene	+/-14%	98.3%
Propylene	+/-20.2%	101%
Trichloroethylene	+/-13.4%	97.9%

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

811561634308
Date:03/29/17
Shipper:FEDEX
Initials:CTK
Prep:UNKNOWN
L402589

GALSON CHAIN OF CUSTODY

Cart middle.

Turn-Around-Time (TAT):	(surcharge)
☒ Standard	0%
☐ 4 Business Days	35%
☐ 3 Business Days	50%
☐ 2 Business Days	75%
☐ Next Day by 6pm	100%
☐ Next Day by Noon	150%
☐ Same Day	200%

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

You may edit and complete this COC electronically by logging in to your Client Portal account at https://portal.galsonlabs.com/

Client Acct No.: 13790
Original Prep No.: PSY419084
CS Rep: BHONEYCUTT
Online COC No.: 124145

Report To:	Mr. John Ficke
Company Name:	1 Source Safety and Health, Inc.
Address 1:	140 South Village Avenue
Address 2:	Suite 130
City, State Zip:	Exton, PA 19341
Phone No.:	610 - 524 - 5525
Cell No.:	484 - 459 - 2907
Email reports to:	jficke@lssh.com
Comments:	

Invoice To:	Mr. John Ficke
Company Name:	1 Source Safety and Health, Inc.
Address 1:	140 South Village Avenue
Address 2:	Suite 130
City, State Zip:	Exton, PA 19341
Phone No.:	610 - 524 - 5525
Email Address:	MAILEDONLY@NOEMAIL.COM
Comments:	
P.O. No.:	
Payment info.:	☐ I will call SGS Galson to provide credit card info ☐ Card on File (enter the last five digits on the line below)

Comments:
*same IDs, can I do WA849 and WA457 CTC

State Sampled:

Please indicate which OEL(s) this data will be used for:
☒ OSHA PEL ☐ ACGIH TLV ☐ MSHA ☐ Cal OSHA
☐ IAQ: _____ (Specify Limit(s)) ☐ Other: _____ (Specify Other)

Site Name: Pier 3 Condominiums | Project: PCON0001 | Sampled By: John Ficke

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

Sample ID * (Maximum of 20 Characters)	Date Sampled *	Collection Medium	Sample Volume Sample Time Sample Area *	Liters Minutes in², cm², ft² *	Analysis Requested	Method Reference ^	Hexavalent Chromium Process (e.g., welding, plating, painting, etc.)
PCON-032817-02 01 WA849 per client 4/5/17	3-28-17	Minican, 400 or 450cc	120 min	Min	Volatile Organics Profile (61) (TO15 list)	mod. OSHA PV2120/mod. EPA TO15; GC/MS	

☐ ^ 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.

Chain of Custody	Print Name / Signature		Date	Time		Print Name / Signature		Date	Time
Relinquished By:	John Ficke	John Ficke	3-28-17		Received By:			3/29/17	1103
Relinquished By:					Received 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.: 124145
Prep No.: PSY419084
Account No.: 13790
Draft: 3/22/2017 2:31:22 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

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SGS GALSON

CHAIN OF CUSTODY

Comments :

Sample ID * (Maximum of 20 Characters)	Date Sampled *	Collection Medium	Sample Volume Sample Time Sample Area *	Liters Minutes in², cm², ft² *	Analysis Requested	Method Reference ^	Hexavalent Chromium Process (e.g., welding, plating, painting, etc.)
PCON-032817-02	3-28-17	Minican, 400 or 450cc	12d	min	Volatile Organics Profile (61) (TO15 list)	mod. OSHA PV2120/mod. EPA TO15; GC/MS	

☐ ^ 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.

Chain of Custody	Print Name / Signature		Date	Time		Print Name / Signature		Date	Time
Relinquished By :	John Ficke	John Ficke			Received By :			3/29/17	1103
Relinquished By :					Received 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. : 124145
Prep No. : PSY419084
Account No. : 13790
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1Source
Safety and Health, Inc.

Attachment 4

Methods and Materials

Methods and Materials

Total Volatile Organic Compounds

An air sample for volatile organic compounds (VOCs) was collected using a mini can. A mini can is an evacuated flask that has had all of the air removed from it to produce a negative pressure condition inside the mini can. A regulator set to sample for two hours is attached and air is drawn into the min can until it is full.

2020 Pro Photoionization Detector

Total volatile organic compounds were measured utilizing a 2020 Pro Photoionization Detector. The operating concentration of the 2020 Pro Photoionization Detector is from 0.1 to 2,000 ppm with an accuracy of ±10% or ±2 ppm (whatever is greater). The detector operation is by photoionization using a 10.6 electrovolt ultraviolet lamp. The 2020 Pro Photoionization Detector was calibrated with isobutylene at the beginning of the survey day and sample results are converted from ppm to milligrams per cubic meter, expressed as isobutylene.

The 2020 Pro Photoionization Detector was initially purged with hydrocarbon free gas, which permits zeroing the instrument. Next, the detector was purged with a 100 ppm isobutylene span gas mixture. The instrument was calibrated prior to the start of the sampling on the day of the survey.

Analytical Laboratory

The mini can was sent via overnight courier for next morning delivery to SGS Galson located in East Syracuse, NY for analysis. SGS Galson is Galson Laboratories is fully accredited by the American Industrial Hygiene Association. Samples were collected and analyzed according to a modified OSHA method PV2120 and EPA method TO15.

1Source
Safety and Health, Inc.

Attachment 5

References and Guidelines

References and Guidelines

References used for data interpretation include, but are not limited to, the following:

1. Odor thresholds for Chemicals with Established Occupational Health Standards; American Industrial Hygiene Association, 2012.