



EA GROUP

Environmental Analysis
and Management

May 3, 2023

Mr. David Boyer

Shaker Heights City School District

15600 Parkland Drive

Cleveland, Ohio 44120

RE: **Indoor Air Quality Assessment for Odors**

Lower Level, Woodbury Elementary School, 15400 Woodland Road, Shaker Heights, Ohio
OH45428

Description of Work

EA Group, Mentor, Ohio was contracted by Shaker Heights City School District to perform an indoor air quality (IAQ) assessment for odors in various rooms of the Lower Level of Woodbury Elementary School in response to odor complaints. The assessment was performed on March 31, 2023, and included short-term monitoring for general air quality parameter carbon monoxide, hydrogen sulfide (H₂S), and total volatile organic compounds (TVOCs); air sampling for fungal (mold) structures in four designated areas; and, air sampling for volatile organic compounds (VOCs) in two designated areas. Monitoring and sampling were performed by EA Group representative Patrick Herbert. This report provides the results for the assessment.

General Observations

A very faint sewer gas odor was detected in the Library and a somewhat stronger, but still faint, odor was noted in the Media Center. No odor was detected in any other rooms in the Lower Level, including the Cafeteria and all accessible classrooms.

General Air Quality Parameters

Area air monitoring for carbon monoxide (CO), H₂S and TVOCs was performed using an RAE MultiRAE multigas detector. Short-term monitoring was performed in various designated indoor areas of the Lower Level. The monitoring results for these parameters are summarized in Table 1, attached.

Carbon Monoxide

Carbon monoxide (CO) can come from a variety of sources, including combustion engines, petroleum or natural gas fired boiler/furnaces, and industrial activities. Levels of CO in the air in the survey areas were compared to the National Ambient Air Quality Standards (NAAQS), which mandate maximum contaminant levels for ambient outdoor air quality. Although it is not directly applicable to indoor air environments, this standard can be used for comparison purposes.



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As shown in Table 1, no CO was detected.

Area Air Monitoring for H₂S and TVOCs

The contaminant most often related to sewage-like odors is H₂S. The odor threshold for H₂S is very low, and it can often be identified by smell well before concentrations reach harmful levels. The Occupational Safety and Health Administration (OSHA) has established a ceiling limit of 20 ppm for exposure to H₂S, which applies to occupational exposure. As an indoor air quality standard, one-tenth of an OSHA limit is often used, or 2 ppm for H₂S.

TVOCs concentrations are commonly found in indoor environments, and are contributed by various chemical products, paints, cleaning compounds (including but not limited to disinfectants), off-gassing, perfumes, deodorizers, and marking pens. No OSHA or equivalent standard for TVOCs exists, but as a point of reference, the European Collaborative Action – Indoor Air Quality (ECA-IAQ) Report 19 identified most reported total VOC concentrations in non-industrial indoor environments to be equivalent to within the range of approximately 0.44 ppm and 11 ppm.

As shown in Table 1, no H₂S was detected. TVOCs were detected in all designated areas within a range of 1.2 to 2.4 ppm, typical of an occupied indoor environment of this nature.

Odors

The absence or presence of odors detected at the time of inspection in the designated areas is included on Table 1. Faint odors were noted only in the Library and Media Center.

Air Sampling for Fungal Structures

Bioaerosol sampling was conducted in the same areas to assess total concentrations of airborne fungal structures (viable and non-viable spores, fragments, etc.). Samples were secured on 37-mm Air-O-Cell cassettes, which have a slit opening to control air flow and a sticky surface that captures both viable and non-viable fungal spores and non-viable fungal particles, as well as other airborne particulates. The cassettes are analyzed by microscopic methods, with results expressed as total fungal structures per cubic meter (FS/m³) of air. Results are summarized in Table 2, attached, and detailed in the laboratory report in Appendix A.

As shown in Table 2, total fungal spore concentrations in all of the indoor air samples were very low to low, with no amplification of individual types and not types predominantly associated with fungal growth due to water damage.



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Area Air Sampling for Volatile Organic Compounds (VOCs)

Two area air samples for analysis for volatile organic compound (VOC) analyses were collected in two areas of concern (Library and Media Center) using a 1-liter SUMMA canister, equipped with regulated valves for filling over an approximately four-hour period. The sample was subsequently submitted for analysis in accordance with EPA Method TO-15, including tentatively identified compounds [TICs], which are based on the best match of the mass spectrum for a compound against a standard “library” database, with both the compound and concentration being estimates only.

According to the analytical results detailed in the laboratory report in Appendix A, very low concentrations of VOCs were detected in the air samples from the areas of concern, and all compounds that were detected, with results expressed in parts per billion (ppb), are typical for an office environment. All concentrations were orders of magnitude lower than Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELs), and one-tenth the OSHA PEL, which is often used as a comparison for general indoor air quality.

Summary of Significant Findings

No adverse air quality conditions were identified through the monitoring and sampling performed. Faint to very faint non-descript odors were detected in the Library and Media Center areas. To the extent possible, increased air circulation and fresh air may be beneficial.

No CO or H₂S was detected. TVOCs were detected in all designated areas within a range of 1.2 to 2.4 ppm, which are fairly typical for an office/classroom setting and are likely due to hand sanitizer, inks, and/or cleaning products.

Total fungal spore concentrations in all of the indoor air samples were very low to low, with no amplification of individual types and none being predominantly associated with fungal growth due to water damage.

Very low concentrations of VOCs were detected in the air samples from the areas of concern, and all compounds detected would be considered typical for an office setting.

LIMITATIONS TO THIS REPORT

1. EA Group’s report reflects only the conditions that existed at the time of the assessment, and airborne contaminant levels may vary over time.



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2. Any reports or remediation plans produced for the project site are limited to the portion(s) of the building identified in EA Group's Scope of Work Agreement.
3. Any exposure data recorded during the assessment may not be sufficiently broad to assess the suitability of the indoor air quality for all individuals, particularly those who are extremely sensitive to certain chemical or biological substances or who have immune system deficiencies.
4. Any data, information, interpretations, or recommendations contained in EA Group's reports are presented solely as a basis and guide to the existing conditions as evaluated at the project site and limited to the portion(s) of the building identified in EA Group's Scope of Work Agreement. As with all indoor air quality evaluations, any opinions expressed herein are subject to revision in light of new information that may be developed in the future, and no warranties are expressed or implied.

This report has not been prepared for use by any party other than our Client. It may not contain sufficient information for the purposes of other parties or other uses. If any significant changes are made to site conditions, resident activities, equipment, etc. described in this report, any conclusions or recommendations contained herein may be invalid, unless the changes are reviewed by EA Group and the conclusions or recommendations are modified or approved in writing.

If there are any questions or concerns regarding the information provided, please contact the undersigned. Thank you for consulting EA Group.

Sincerely,

EA Group

Patrick Herbert,
President

Timothy S. Bowen,
Vice President/Technical Director



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As shown in Table 2, total fungal spore concentrations in all of the indoor air samples were very low to low, with no amplification of individual types and not types predominantly associated with fungal growth due to water damage.



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This report has not been prepared for use by any party other than our Client. It may not contain sufficient information for the purposes of other parties or other uses. If any significant changes are made to site conditions, resident activities, equipment, etc. described in this report, any conclusions or recommendations contained herein may be invalid, unless the changes are reviewed by EA Group and the conclusions or recommendations are modified or approved in writing.

If there are any questions or concerns regarding the information provided, please contact the undersigned. Thank you for consulting EA Group.

Sincerely,

EA Group

Patrick Herbert,
President

Timothy S. Bowen,
Vice President/Technical Director

**Table 1. Summary of General Air Quality Monitoring Results
Shaker Heights City School District
Lower Level, Woodbury Elementary School, Shaker Heights, Ohio**

March 31, 2023

Location/Time	Avg CO	Avg H ₂ S	Avg TVOC	Odor
Library Landing; 0936	0	0	1.2	Very Faint
Library Main; 0937	0	0	1.4	Very Faint
Boiler Room; 0939	0	0	1.7	No
Cafeteria; 0944	0	0	2.0	No
Kitchen; 0946	0	0	2.2	No
Room 114; 0951	0	0	2.2	No (Art)
Room 116; 0953	0	0	2.4	No (Art)
Room 120; 0956	0	0	2.3	No
Room 124/126; 0959	0	0	2.3	No
Room 130; 1002	0	0	2.3	No
Girl's Restroom; 1005	0	0	2.2	No
Library Landing; 1008	0	0	2.3	Very Faint
Library Main; 1010	0	0	2.3	Very Faint
Media Center; 1016	0	0	2.3	Faint, but stronger
Boiler Room; 1018	0	0	2.4	No
Library Landing; 1300	0	0	1.7	Faint
Library Main; 1302	0	0	1.8	Faint
Media Center; 1303	0	0	1.9	Faint, but stronger
Boiler Room; 1305	0	0	2.1	No
Room 130; 1307	0	0	2.0	No
Room 126; 1309	0	0	2.1	No
Room 120; 1311	0	0	2.2	No
Room 114; 1312	0	0	2.1	No
Cafeteria; 1314	0	0	2.0	No

All others in parts per million (ppm)

‡ = average CO concentration exceeds comparative NAAQS standard (9 ppm)

No actual standards for TVOCs in non-industrial settings.

**Table 2. Summary of Air Sample Results for Fungal Structures
Shaker Heights City School District
Lower Level, Woodbury Elementary School, Shaker Heights, Ohio**

March 31, 2023 Sampling

Location	Library; Main Floor	Media Center	Hall at Room 124	Hall at Custodial Office
Fungal Spore / Sample I.D.	OH45428-1	OH45428-2	OH45428-3	OH45428-4
Basidiospores	130	40	40	27
<i>Cladosporium</i>	80	13	13	13
Total Fungal Spores	210	53	53	40
Hyphal Fragments				
Pollen		13		
Debris Rating	1+	1+	1+	1+

Results expressed as fungal structures per cubic meter of air (FS/m³)

Debris Rating:

Background debris is indication of amount of non-biological particulate matter (dust) present on slide; graded from 1+ to 4+, with 4+ indicating largest amount. Counts with 4+ may be higher than reported.



EA GROUP

Environmental Analysis
and Management

APPENDIX A

Laboratory Analytical Report(s)

Report for:

Mr. Pat Herbert
EA Group
7118 Industrial Park Blvd.
Mentor, OH 44060

Regarding: Eurofins EPK Built Environment Testing, LLC
Project: OH45428; Shaker Woodbury
EML ID: 3215819

Approved by:

Dates of Analysis:
Spore trap analysis: 04-04-2023



Technical Manager
Ariunaa Jalsrai

Service SOPs: Spore trap analysis (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #103005

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested. Information supplied by the client which can affect the validity of results: sample air volume.

Eurofins EPK Built Environment Testing, LLC ("the Company"), a member of the Eurofins Built Environment Testing group of companies, shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins EPK Built Environment Testing, LLC's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Client: EA Group
 C/O: Mr. Pat Herbert
 Re: OH45428; Shaker Woodbury

Date of Receipt: 04-03-2023
 Date of Report: 04-04-2023

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	OH45428-1: Library	OH45428-2: Media Center	OH45428-3: Hall @ Rm 124	OH45428-4: Hall @ Cust. Ofc.
Comments (see below)	None	None	None	None
Lab ID-Version‡:	15577417-1	15577418-1	15577419-1	15577420-1
Analysis Date:	04/04/2023	04/04/2023	04/04/2023	04/04/2023
Sample volume (liters)	75	75	75	75
Background debris (1-4+)††	1+	1+	1+	1+
	raw ct.	raw ct.	raw ct.	raw ct.
	Count/m3	Count/m3	Count/m3	Count/m3
	DL/m3*	DL/m3*	DL/m3*	DL/m3*
	%	%	%	%
Hyphal fragments				
Pollen	1	13	n/a	
§ TOTAL FUNGAL SPORES	16	4	53	40
Asciospores	210	53	n/a	100
Basidiospores	10	130	13	75
Chaetomium	6	80	13	25
Cladosporium	6	80	13	25
Other colorless				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts, Periconia, Myxomycetes				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity is the spores/m³ divided by the raw count, expressed in spores/m³, per spore and per sample.

*The detection limit/limit of detection (DL) per cubic meter (m3) has been rounded to two significant figures to reflect analytical precision.

††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Fungal Spores has been rounded to two significant figures to reflect analytical precision.



Centek/SanAir Technologies Laboratory

143 Midler Park Drive * Syracuse, NY 13206

Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752

NYSDOH ELAP Certificate No. 11830

Analytical Report

Pat Herbert
EA Group
7118 Industrial Park
Mentor, OH 44060

Thursday, April 06, 2023
Order No.: C2304002

TEL: 440-951-3514

FAX

RE: Shaker Woodbury

Dear Pat Herbert:

Centek/SanAir Technologies Laboratory received 2 sample(s) on 4/3/2023 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Centek/SanAir Laboratories performs all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services. Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

Thank you for using Centek/SanAir Laboratories. This report can not be reproduced except in its entirety, without prior written authorization.

Sincerely,

William Dobbins
Lead Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek/SanAir as contained in this report are believed by Centek to be accurate and

reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek/SanAir for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages. ELAP does not offer certification for the following parameters by this method at present time, they are: 4-ethyltoluene, ethyl acetate, propylene, Tetrahydrofuran, 4-PCH, sulfur derived and silicon series compounds.

Centek/SanAir Laboratories - Terms and Conditions

Chain of Custody

Chain of Custody must be completed in full. Lack of any missing information will affect your Turn Around Times (TAT)

Internal Chain of Custody provided when you notify Centek/SanAir Laboratories

Sample Submission

All samples sent to Centek/SanAir Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website www.Centek/SanAirLabs.us. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media

Samples can be collected in a canister or a Tedlar bag. Depending on your analytical needs, Centek/SanAir Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks

Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment

Centek/SanAir Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any damages of equipment.

****Any sampling equipment that exceeds holding times, cancellation of job or non-notice of rescheduling is subject to restocking fees****

Turn Around time (TAT)

Centek/SanAir Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting

Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4 weeks from time of analysis (add 10%/sample for Cat B). Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms

Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit application on file to extend credit. Purchase orders or checks information must be submitted for us to release results

Rush Turnaround Samples

Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples:

Same day TAT = 200%

Next business day TAT by Noon = 150%

Next business day TAT by 6:00pm = 100%

Second business day TAT by 6:00pm = 75%

Third business day TAT by 6:00pm = 50%

Fourth business day TAT by 6:00pm = 35%

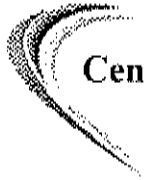
Fifth business day = Standard

Statement of Confidentiality

Centek/SanAir Laboratories is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

Limitation on Liability

Centek/SanAir Laboratories warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek/SanAir Laboratories. In no event shall Centek/SanAir Laboratories be liable for direct, indirect, special, punitive, incidental, exemplary or consequential damages, or any damages whatsoever, even if Centek/SanAir Laboratories has been previously advised of the possibility of such damages whether in an action under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use or performance of the information, services, products and materials available from the laboratory or this site. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This is a comprehensive limitation of liability that applies to all damages of any kind, including (without limitation) compensatory, direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.



CLIENT: EA Group
Project: Shaker Woodbury
Lab Order: C2304002

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Centek Laboratories, LLC SOP TS-80
Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

NYSDEC ASP samples:

Canisters should be evacuated to a reading of less than or equal to 50 millitorr prior to shipment to sampling personnel. The vacuum in the canister will be field checked prior to sampling, and must read 28" of Hg (± 2 ", vacuum, absolute) before a sample can be collected. After the sample has been collected, the pressure of the canister will be read and recorded again, and must be 5" of Hg (± 1 ", vacuum, absolute) for the sample to be valid. Once received at the laboratory, the canister vacuum should be confirmed to be 5" of Hg, ± 1 ". Please record and report the pressure/vacuum of received canisters on the sample receipt paperwork. A pressure/vacuum reading should also be taken just prior to the withdrawal of sample from the canister, and recorded on the sample preparation log sheet. All regulators are calibrated to meet these requirements before they leave the laboratory. However, due to environmental conditions and use of the equipment Centek can not guarantee that this criteria can always be achieved.



Centek/SanAir Technologies Laboratory

Sample Receipt Checklist

Client Name **EA GROUP**

Date and Time Receive

4/3/2023

Work Order Number **C2304002**

Received by: **RG**

Checklist completed by

Robin Juslaw **4/3/23**
Signature Date

Reviewed by

WD **4/3/2023**
Initials Date

Matrix:

Carrier name: UPS - Ground

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- COC signed when relinquished and received? Yes No
- COC agrees with sample labels? Yes No
- COC completely filled out? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

QC'd By: *WD*

DATE: **4/10/2023**



Centek/SanAir Technologies Laboratory

Date: 10-Apr-23

CLIENT: EA Group
Project: Shaker Woodbury
Lab Order: C2304002

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C2304002-001A	OH45428 Library	1179,299	3/31/2023	4/3/2023
C2304002-002A	OH45428 Media Ctr	136,400	3/31/2023	4/3/2023

Lab Order: C2304002

Client: EA Group

Project: Shaker Woodbury

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C2304002-001A	OH45428 Library	3/31/2023	Air	lug/M3 w/TIC by Method TO15			4/3/2023
				lug/M3 w/TIC by Method TO15			4/3/2023
				LFG H2S Only by TO-15			4/5/2023
C2304002-002A	OH45428 Media Ctr			lug/M3 w/TIC by Method TO15			4/3/2023
				lug/M3 w/TIC by Method TO15			4/3/2023
				LFG H2S Only by TO-15			4/5/2023

Centek/SanAir Technologies Laboratory

Date: 06-Apr-23

CLIENT: EA Group
Lab Order: C2304002
Project: Shaker Woodbury
Lab ID: C2304002-001A

Client Sample ID: OH45428 Library
Tag Number: 1179,299
Collection Date: 3/31/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-4			"Hg		4/3/2023
Lab Vacuum Out	-30			"Hg		4/3/2023
1UG/M3 W/TIC BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	4/3/2023 2:12:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	4/3/2023 2:12:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	4/3/2023 2:12:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	4/3/2023 2:12:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	4/3/2023 2:12:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	4/3/2023 2:12:00 PM
1,2,4-Trimethylbenzene	2.3	0.74		ug/m3	1	4/3/2023 2:12:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	4/3/2023 2:12:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/3/2023 2:12:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	4/3/2023 2:12:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	4/3/2023 2:12:00 PM
1,3,5-Trimethylbenzene	0.98	0.74		ug/m3	1	4/3/2023 2:12:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	4/3/2023 2:12:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/3/2023 2:12:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/3/2023 2:12:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	4/3/2023 2:12:00 PM
2,2,4-trimethylpentane	0.51	0.70	J	ug/m3	1	4/3/2023 2:12:00 PM
4-ethyltoluene	0.79	0.74		ug/m3	1	4/3/2023 2:12:00 PM
Acetone	15	7.1		ug/m3	10	4/3/2023 3:39:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	4/3/2023 2:12:00 PM
Benzene	0.67	0.48		ug/m3	1	4/3/2023 2:12:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	4/3/2023 2:12:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	4/3/2023 2:12:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	4/3/2023 2:12:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	4/3/2023 2:12:00 PM
Carbon disulfide	0.37	0.47	J	ug/m3	1	4/3/2023 2:12:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	4/3/2023 2:12:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	4/3/2023 2:12:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	4/3/2023 2:12:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	4/3/2023 2:12:00 PM
Chloromethane	1.2	0.31		ug/m3	1	4/3/2023 2:12:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/3/2023 2:12:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/3/2023 2:12:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	4/3/2023 2:12:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	4/3/2023 2:12:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	4/3/2023 2:12:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 06-Apr-23

CLIENT: EA Group
Lab Order: C2304002
Project: Shaker Woodbury
Lab ID: C2304002-001A

Client Sample ID: OH45428 Library
Tag Number: 1179,299
Collection Date: 3/31/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/TIC BY METHOD TO15		TO-15		Analyst: RJP		
Ethylbenzene	< 0.65	0.65		ug/m3	1	4/3/2023 2:12:00 PM
Freon 11	1.3	0.84		ug/m3	1	4/3/2023 2:12:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	4/3/2023 2:12:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	4/3/2023 2:12:00 PM
Freon 12	< 0.74	0.74		ug/m3	1	4/3/2023 2:12:00 PM
Heptane	3.7	0.61		ug/m3	1	4/3/2023 2:12:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	4/3/2023 2:12:00 PM
Hexane	3.1	0.53		ug/m3	1	4/3/2023 2:12:00 PM
Isopropyl alcohol	4.5	0.37		ug/m3	1	4/3/2023 2:12:00 PM
m&p-Xylene	0.87	1.3	J	ug/m3	1	4/3/2023 2:12:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	4/3/2023 2:12:00 PM
Methyl Ethyl Ketone	1.1	0.88		ug/m3	1	4/3/2023 2:12:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	4/3/2023 2:12:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	4/3/2023 2:12:00 PM
Methylene chloride	1.1	0.52		ug/m3	1	4/3/2023 2:12:00 PM
o-Xylene	0.48	0.65	J	ug/m3	1	4/3/2023 2:12:00 PM
Propylene	< 0.26	0.26		ug/m3	1	4/3/2023 2:12:00 PM
Styrene	< 0.64	0.64		ug/m3	1	4/3/2023 2:12:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	4/3/2023 2:12:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	4/3/2023 2:12:00 PM
Toluene	9.8	5.7		ug/m3	10	4/3/2023 3:39:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/3/2023 2:12:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/3/2023 2:12:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	4/3/2023 2:12:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	4/3/2023 2:12:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	4/3/2023 2:12:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	4/3/2023 2:12:00 PM
LFG H2S ONLY BY TO-15		TO-15		Analyst: LL		
Hydrogen Sulfide	< 14	14		ug/m3	1	4/5/2023 4:27:00 PM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits
B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 06-Apr-23

CLIENT: EA Group
Lab Order: C2304002
Project: Shaker Woodbury
Lab ID: C2304002-002A

Client Sample ID: OH45428 Media Ctr
Tag Number: 136,400
Collection Date: 3/31/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
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FIELD PARAMETERS

FLD

Analyst:

Lab Vacuum In	-1			"Hg		4/3/2023
Lab Vacuum Out	-30			"Hg		4/3/2023

1UG/M3 W/TIC BY METHOD TO15

TO-15

Analyst: RJP

1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	4/3/2023 2:56:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	4/3/2023 2:56:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	4/3/2023 2:56:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	4/3/2023 2:56:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	4/3/2023 2:56:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	4/3/2023 2:56:00 PM
1,2,4-Trimethylbenzene	1.4	0.74		ug/m3	1	4/3/2023 2:56:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	4/3/2023 2:56:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/3/2023 2:56:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	4/3/2023 2:56:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	4/3/2023 2:56:00 PM
1,3,5-Trimethylbenzene	0.49	0.74	J	ug/m3	1	4/3/2023 2:56:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	4/3/2023 2:56:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/3/2023 2:56:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/3/2023 2:56:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	4/3/2023 2:56:00 PM
2,2,4-trimethylpentane	1.4	0.70		ug/m3	1	4/3/2023 2:56:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	4/3/2023 2:56:00 PM
Acetone	16	7.1		ug/m3	10	4/3/2023 4:22:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	4/3/2023 2:56:00 PM
Benzene	0.70	0.48		ug/m3	1	4/3/2023 2:56:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	4/3/2023 2:56:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	4/3/2023 2:56:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	4/3/2023 2:56:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	4/3/2023 2:56:00 PM
Carbon disulfide	0.31	0.47	J	ug/m3	1	4/3/2023 2:56:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	4/3/2023 2:56:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	4/3/2023 2:56:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	4/3/2023 2:56:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	4/3/2023 2:56:00 PM
Chloromethane	1.2	0.31		ug/m3	1	4/3/2023 2:56:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/3/2023 2:56:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/3/2023 2:56:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	4/3/2023 2:56:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	4/3/2023 2:56:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	4/3/2023 2:56:00 PM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits
B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 06-Apr-23

CLIENT: EA Group
Lab Order: C2304002
Project: Shaker Woodbury
Lab ID: C2304002-002A

Client Sample ID: OH45428 Media Ctr
Tag Number: 136,400
Collection Date: 3/31/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/TIC BY METHOD TO15		TO-15		Analyst: RJP		
Ethylbenzene	< 0.65	0.65		ug/m3	1	4/3/2023 2:56:00 PM
Freon 11	1.3	0.84		ug/m3	1	4/3/2023 2:56:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	4/3/2023 2:56:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	4/3/2023 2:56:00 PM
Freon 12	< 0.74	0.74		ug/m3	1	4/3/2023 2:56:00 PM
Heptane	1.6	0.61		ug/m3	1	4/3/2023 2:56:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	4/3/2023 2:56:00 PM
Hexane	3.2	0.53		ug/m3	1	4/3/2023 2:56:00 PM
Isopropyl alcohol	2.0	0.37		ug/m3	1	4/3/2023 2:56:00 PM
m&p-Xylene	0.74	1.3	J	ug/m3	1	4/3/2023 2:56:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	4/3/2023 2:56:00 PM
Methyl Ethyl Ketone	1.0	0.88		ug/m3	1	4/3/2023 2:56:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	4/3/2023 2:56:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	4/3/2023 2:56:00 PM
Methylene chloride	0.87	0.52		ug/m3	1	4/3/2023 2:56:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	4/3/2023 2:56:00 PM
Propylene	< 0.26	0.26		ug/m3	1	4/3/2023 2:56:00 PM
Styrene	< 0.64	0.64		ug/m3	1	4/3/2023 2:56:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	4/3/2023 2:56:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	4/3/2023 2:56:00 PM
Toluene	7.5	5.7		ug/m3	10	4/3/2023 4:22:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/3/2023 2:56:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/3/2023 2:56:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	4/3/2023 2:56:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	4/3/2023 2:56:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	4/3/2023 2:56:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	4/3/2023 2:56:00 PM
LFG H2S ONLY BY TO-15		TO-15		Analyst: LL		
Hydrogen Sulfide	< 14	14		ug/m3	1	4/5/2023 5:04:00 PM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits
B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 06-Apr-23

CLIENT: EA Group
Lab Order: C2304002
Project: Shaker Woodbury
Lab ID: C2304002-001A

Client Sample ID: OH45428 Library
Tag Number: 1179,299
Collection Date: 3/31/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-4			"Hg		4/3/2023
Lab Vacuum Out	-30			"Hg		4/3/2023
1UG/M3 W/TIC BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
1,2,4-Trimethylbenzene	0.46	0.15		ppbV	1	4/3/2023 2:12:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
1,3,5-Trimethylbenzene	0.20	0.15		ppbV	1	4/3/2023 2:12:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	4/3/2023 2:12:00 PM
2,2,4-trimethylpentane	0.11	0.15	J	ppbV	1	4/3/2023 2:12:00 PM
4-ethyltoluene	0.16	0.15		ppbV	1	4/3/2023 2:12:00 PM
Acetone	6.5	3.0		ppbV	10	4/3/2023 3:39:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Benzene	0.21	0.15		ppbV	1	4/3/2023 2:12:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Bromoform	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Carbon disulfide	0.12	0.15	J	ppbV	1	4/3/2023 2:12:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Chloroform	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Chloromethane	0.58	0.15		ppbV	1	4/3/2023 2:12:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	4/3/2023 2:12:00 PM

Qualifiers:

.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
DL	Detection Limit	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 06-Apr-23

CLIENT: EA Group
Lab Order: C2304002
Project: Shaker Woodbury
Lab ID: C2304002-001A

Client Sample ID: OH45428 Library
Tag Number: 1179,299
Collection Date: 3/31/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/TIC BY METHOD TO15		TO-15			Analyst: RJP	
Ethylbenzene	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Freon 11	0.24	0.15		ppbV	1	4/3/2023 2:12:00 PM
Freon 113	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Freon 114	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Freon 12	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Heptane	0.90	0.15		ppbV	1	4/3/2023 2:12:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Hexane	0.87	0.15		ppbV	1	4/3/2023 2:12:00 PM
Isopropyl alcohol	1.8	0.15		ppbV	1	4/3/2023 2:12:00 PM
m&p-Xylene	0.20	0.30	J	ppbV	1	4/3/2023 2:12:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	4/3/2023 2:12:00 PM
Methyl Ethyl Ketone	0.38	0.30		ppbV	1	4/3/2023 2:12:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	4/3/2023 2:12:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Methylene chloride	0.33	0.15		ppbV	1	4/3/2023 2:12:00 PM
o-Xylene	0.11	0.15	J	ppbV	1	4/3/2023 2:12:00 PM
Propylene	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Styrene	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Toluene	2.6	1.5		ppbV	10	4/3/2023 3:39:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	4/3/2023 2:12:00 PM
Surr: Bromofluorobenzene	97.0	78.8-119		%REC	1	4/3/2023 2:12:00 PM
TIC: 1-Hexanol, 2-ethyl-	0.52	0	JN	ppbV	1	4/3/2023 2:12:00 PM
TIC: 1-Hexene, 4-methyl-	0.48	0	JN	ppbV	1	4/3/2023 2:12:00 PM
TIC: Acetaldehyde	0.60	0	JN	ppbV	1	4/3/2023 2:12:00 PM
TIC: Benzene, 1-ethyl-2-methyl-	0.55	0	JN	ppbV	1	4/3/2023 2:12:00 PM
TIC: Benzene, 1-ethyl-4-methyl-	0.38	0	JN	ppbV	1	4/3/2023 2:12:00 PM
TIC: Benzoic acid, 2- [(trimethylsilyl)O	3.2	0	JN	ppbV	1	4/3/2023 2:12:00 PM
TIC: Butane	2.0	0	JN	ppbV	1	4/3/2023 2:12:00 PM
TIC: Butane, 2-methyl-	1.5	0	JN	ppbV	1	4/3/2023 2:12:00 PM
TIC: Cyclohexane, methyl-	0.31	0	JN	ppbV	1	4/3/2023 2:12:00 PM
TIC: Cyclopentane, methyl-	0.43	0	JN	ppbV	1	4/3/2023 2:12:00 PM
TIC: Cyclotrisiloxane, hexamethyl-	3.1	0	JN	ppbV	1	4/3/2023 2:12:00 PM

Qualifiers:	.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
	DL	Detection Limit	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 06-Apr-23

CLIENT: EA Group
Lab Order: C2304002
Project: Shaker Woodbury
Lab ID: C2304002-001A

Client Sample ID: OH45428 Library
Tag Number: 1179,299
Collection Date: 3/31/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/TIC BY METHOD TO15						Analyst: RJP
TIC: Ethane, 1,1,2-trichloro-1,2,2-trif	0.30	0	JN	ppbV	1	4/3/2023 2:12:00 PM
TIC: Ethanol	1.9	0	JN	ppbV	1	4/3/2023 2:12:00 PM
TIC: Hexanal	0.43	0	JN	ppbV	1	4/3/2023 2:12:00 PM
TIC: Hexane, 3-methyl- \$\$ 2-Ethylpentan	0.97	0	JN	ppbV	1	4/3/2023 2:12:00 PM
TIC: Isobutane	3.5	0	JN	ppbV	1	4/3/2023 2:12:00 PM
TIC: Limonene	0.90	0	JN	ppbV	1	4/3/2023 2:12:00 PM
TIC: Propane	3.3	0	JN	ppbV	1	4/3/2023 2:12:00 PM
TIC: Silanol, trimethyl-	1.0	0	JN	ppbV	1	4/3/2023 2:12:00 PM
TIC: UNKNOWN	13	0	JN	ppbV	1	4/3/2023 2:12:00 PM
LFG H2S ONLY BY TO-15						Analyst: LL
Hydrogen Sulfide	< 10	10		ppbV	1	4/5/2023 4:27:00 PM
Surr: Bromofluorobenzene	101	72.8-176		%REC	1	4/5/2023 4:27:00 PM

Qualifiers:	.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
	DL	Detection Limit	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 06-Apr-23

CLIENT: EA Group
Lab Order: C2304002
Project: Shaker Woodbury
Lab ID: C2304002-002A

Client Sample ID: OH45428 Media Ctr
Tag Number: 136,400
Collection Date: 3/31/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-1			"Hg		4/3/2023
Lab Vacuum Out	-30			"Hg		4/3/2023
1UG/M3 W/TIC BY METHOD TO15		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
1,2,4-Trimethylbenzene	0.29	0.15		ppbV	1	4/3/2023 2:56:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
1,3,5-Trimethylbenzene	0.10	0.15	J	ppbV	1	4/3/2023 2:56:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	4/3/2023 2:56:00 PM
2,2,4-trimethylpentane	0.30	0.15		ppbV	1	4/3/2023 2:56:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Acetone	6.6	3.0		ppbV	10	4/3/2023 4:22:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Benzene	0.22	0.15		ppbV	1	4/3/2023 2:56:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Bromoform	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Carbon disulfide	0.10	0.15	J	ppbV	1	4/3/2023 2:56:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Chloroform	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Chloromethane	0.59	0.15		ppbV	1	4/3/2023 2:56:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	4/3/2023 2:56:00 PM

Qualifiers: . Results reported are not blank corrected
DL Detection Limit
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits
B Analyte detected in the associated Method Blank
E Estimated Value above quantitation range
J Analyte detected below quantitation limit
ND Not Detected at the Limit of Detection
SC Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 06-Apr-23

CLIENT: EA Group
Lab Order: C2304002
Project: Shaker Woodbury
Lab ID: C2304002-002A

Client Sample ID: OH45428 Media Ctr
Tag Number: 136,400
Collection Date: 3/31/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/TIC BY METHOD TO15		TO-15		Analyst: RJP		
Ethylbenzene	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Freon 11	0.24	0.15		ppbV	1	4/3/2023 2:56:00 PM
Freon 113	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Freon 114	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Freon 12	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Heptane	0.38	0.15		ppbV	1	4/3/2023 2:56:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Hexane	0.91	0.15		ppbV	1	4/3/2023 2:56:00 PM
Isopropyl alcohol	0.81	0.15		ppbV	1	4/3/2023 2:56:00 PM
m&p-Xylene	0.17	0.30	J	ppbV	1	4/3/2023 2:56:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	4/3/2023 2:56:00 PM
Methyl Ethyl Ketone	0.35	0.30		ppbV	1	4/3/2023 2:56:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	4/3/2023 2:56:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Methylene chloride	0.25	0.15		ppbV	1	4/3/2023 2:56:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Propylene	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Styrene	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Toluene	2.0	1.5		ppbV	10	4/3/2023 4:22:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	4/3/2023 2:56:00 PM
Surr: Bromofluorobenzene	98.0	78.8-119		%REC	1	4/3/2023 2:56:00 PM
TIC: 1-Heptene, 4-methyl-	0.30	0	JN	ppbV	1	4/3/2023 2:56:00 PM
TIC: 5-Hepten-2-one, 6-methyl-	2.0	0	JN	ppbV	1	4/3/2023 2:56:00 PM
TIC: Acetaldehyde	0.31	0	JN	ppbV	1	4/3/2023 2:56:00 PM
TIC: Benzene, 1-ethyl-3-methyl-	0.46	0	JN	ppbV	1	4/3/2023 2:56:00 PM
TIC: Butane	1.6	0	JN	ppbV	1	4/3/2023 2:56:00 PM
TIC: Butane, 2-methyl-	1.3	0	JN	ppbV	1	4/3/2023 2:56:00 PM
TIC: Cyclohexane, (1-methylethyl)	0.37	0	JN	ppbV	1	4/3/2023 2:56:00 PM
TIC: Cyclotrisiloxane, hexamethyl-	1.3	0	JN	ppbV	1	4/3/2023 2:56:00 PM
TIC: Decanal	0.45	0	JN	ppbV	1	4/3/2023 2:56:00 PM
TIC: Ethanol	0.81	0	JN	ppbV	1	4/3/2023 2:56:00 PM
TIC: Hexane, 3-methyl-	0.45	0	JN	ppbV	1	4/3/2023 2:56:00 PM
TIC: Isobutane	2.8	0	JN	ppbV	1	4/3/2023 2:56:00 PM

Qualifiers:	.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
	DL	Detection Limit	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted

Centek/SanAir Technologies Laboratory

Date: 06-Apr-23

CLIENT: EA Group
Lab Order: C2304002
Project: Shaker Woodbury
Lab ID: C2304002-002A

Client Sample ID: OH45428 Media Ctr
Tag Number: 136,400
Collection Date: 3/31/2023
Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
1UG/M3 W/TIC BY METHOD TO15			TO-15			Analyst: RJP
TIC: Limonene	0.63	0	JN	ppbV	1	4/3/2023 2:56:00 PM
TIC: Nonanal	3.3	0	JN	ppbV	1	4/3/2023 2:56:00 PM
TIC: Octanal	0.60	0	JN	ppbV	1	4/3/2023 2:56:00 PM
TIC: Pentane, 2-methyl-	0.90	0	JN	ppbV	1	4/3/2023 2:56:00 PM
TIC: Pentane, 3-methyl-	0.52	0	JN	ppbV	1	4/3/2023 2:56:00 PM
TIC: Propane	2.7	0	JN	ppbV	1	4/3/2023 2:56:00 PM
TIC: UNKNOWN	4.1	0	JN	ppbV	1	4/3/2023 2:56:00 PM
LFG H2S ONLY BY TO-15			TO-15			Analyst: LL
Hydrogen Sulfide	< 10	10		ppbV	1	4/5/2023 5:04:00 PM
Surr: Bromofluorobenzene	102	72.8-176		%REC	1	4/5/2023 5:04:00 PM

Qualifiers:	.	Results reported are not blank corrected	B	Analyte detected in the associated Method Blank
	DL	Detection Limit	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits	SC	Sub-Contracted