



September 26, 2023

Mr. Binyoti Amungwafor
Wisconsin Department of Natural Resources
1027 W. St. Paul Avenue
Milwaukee, WI 53233

Re: Results of Additional Vapor Sampling Supplemental to Closure Documentation
OHM-Wauwatosa
6737 Milwaukee Avenue
Wauwatosa, Wisconsin 53213
BRRTS# 02-41-551923

Dear Mr. Amungwafor:

On behalf of OHM Holdings, Inc., EnviroForensics, LLC is responding to your request for additional data collection in your Closure Not Recommended Letter dated September 21, 2022. Specifically, the data collection activities requested included repeat vapor sampling of existing soil gas vapor monitoring points and sub-slab vapor monitoring ports for two (2) events, and sampling of vapor within the localized sanitary sewer mains.

The locations of soil gas, sub-slab, and sanitary sewer gas samples are shown on attached **Figure 1**. A summary of the analytical results is provided in attached **Table 1**, and the laboratory results sheets from the most recent two (2) sampling events are also attached.

Vapor samples from the soil gas points and sub-slab sampling ports were collected using 1-liter Summa canisters on January 26, 2023 and again on July 23, 2023. Prior to collecting samples from the soil gas points and the sub-slab ports, the integrity of the sampling points was tested by leak detection using helium as a tracer gas, and tubing connections were pressure tested as recommended in WDNR Publication RR-800. Each soil gas sampling point was purged of three times the volume of air in the sand pack surrounding the screen with a peristaltic pump. The sub-slab ports were not purged prior to sampling.

As can be seen in the attached documentation, concentrations of detected chlorinated volatile organic compounds (CVOCs) were below both the small commercial and residential vapor risk screening levels (VRSLs) in all soil gas and sub-slab samples collected.

Samples of sanitary sewer gas were collected from sewer manhole locations SG-1 and SG-2 shown on **Figure 1** using both 1-liter Summa canisters and passive samplers. The passive samplers were deployed within the sanitary sewer mains on January 19, 2023 and retrieved on January 26, 2023 providing for a seven (7) day collection period. One-half hour grab samples were collected via Summa canister on

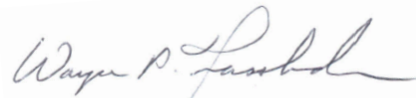
January 26, 2023. As can be seen in the attached documentation, there were no CVOCs detected at concentrations exceeding the sanitary sewer gas screening levels (SSGSLs) for either small commercial or residential structures. The SSGSL standards are the same as the VRSL standards presented in the **Table 1** heading. None of the sanitary sewer gas samples contained CVOCs at a concentration exceeding 10% of any SSGSL; therefore, additional sampling of the manholes or adjacent structures is not warranted as established by RR-649.

The soil vapor extraction (SVE) system operated eleven months beginning in January 2021 and was shut down in November 2021 due to diminished returns of CVOC vapors. There has been sufficient time passed following system shut down to allow subsurface conditions to equilibrate. Initial pre-remedial vapor concentrations in subsurface soil (some exceeding small commercial and residential screening levels) are shown to have been reduced and do not exceed current screening levels for either small commercial or residential vapor.

We respectfully request that this data be incorporated into the existing site closure documentation as a stand alone supplement and contend that additional modifications to the existing closure documentation are not needed.

If you have further questions regarding this supplemental closure documentation data, please contact me at (262) 490-6472, or by email at wfassbender@enviroforensics.com.

Sincerely,
EnviroForensics, LLC



Wayne Fassbender, PG
Senior Project Manager

cc: Brian Cass, OHM Holdings, Inc.
Collin Martin, Ash Union, LLC

Attachments:

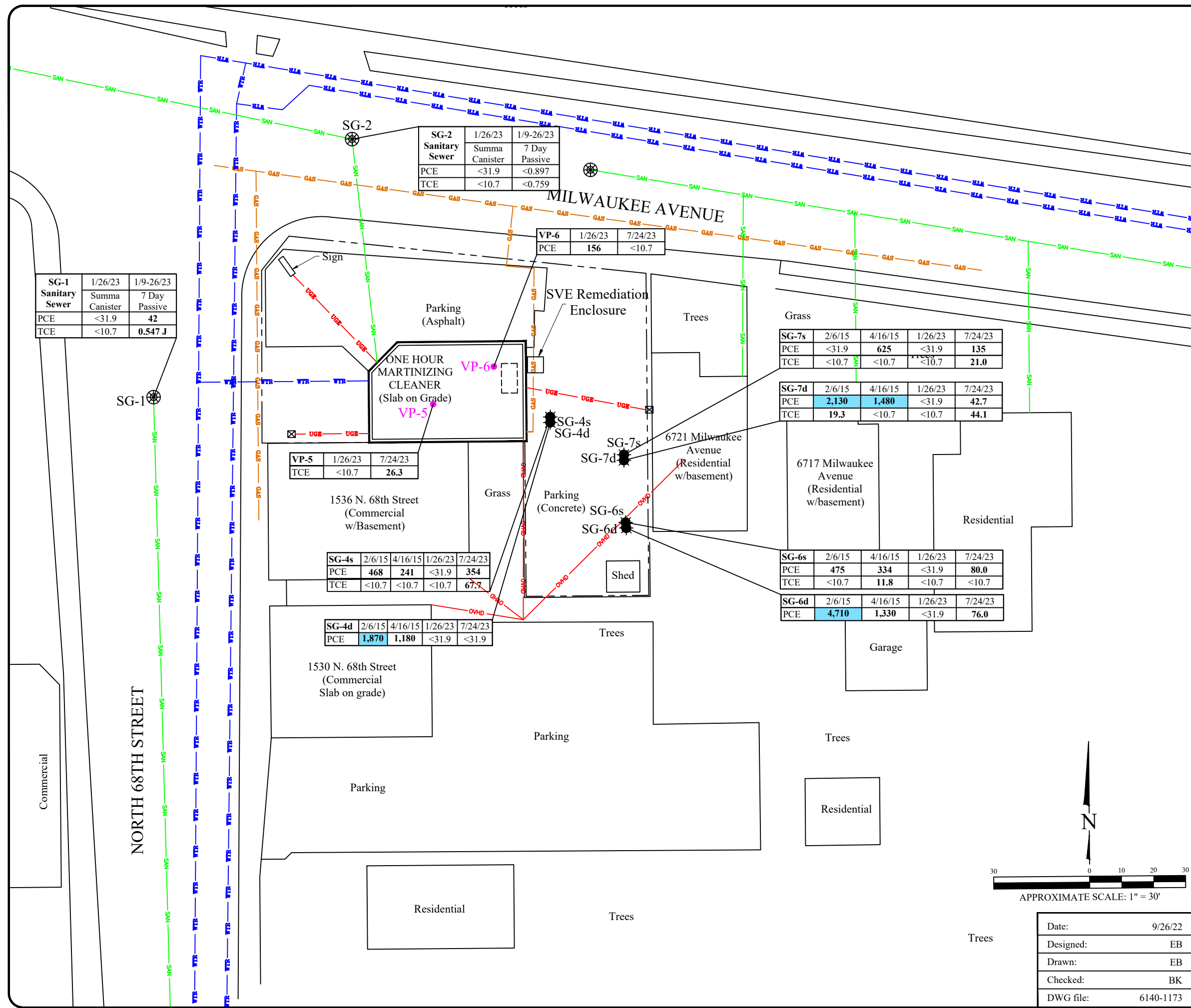
Figure 1: Vapor Sampling Results
Table 1: Vapor Analytical Results
Envision Analytical Results Sheets for January 2023 Sampling Event (Summa)
Beacon Environmental Laboratory Results Sheets for January 2023 Sampling Event (passive)
Envision Analytical Results Sheets for July 2023 Sampling Event (Summa)

Legend

- Property boundary
- UGE Underground electric line utility
- OVHD Overhead electric line utility
- GAS Gas line utility
- SAN Sanitary line utility
- WTR Water line utility
- Old light location
- SG-1 Soil gas sample location
- VP-1 Sub-Slab vapor monitoring points
- SG-1 Sewer vapor sampling location

Analytes	Vapor Risk Screening Levels	
	Residential	Small Commercial
PCE	1,400	5,800
TCE	70	290

- Notes:
- Bolded and shaded blue values are above the residential vapor risk screening level
 - Units in micrograms per cubic meter = ug/m³
 - NE = Not Established
 - PCE = Tetachloroethene
 - TCE = Trichloroethene
 - CVOCs = Chlorinated Volatile Organic Compounds
 - ND = Not Detected



SG-1	1/26/23	1/9-26/23
Sanitary Sewer	Summa Canister	7 Day Passive
PCE	<31.9	42
TCE	<10.7	0.547 J

SG-2	1/26/23	1/9-26/23
Sanitary Sewer	Summa Canister	7 Day Passive
PCE	<31.9	<0.897
TCE	<10.7	<0.759

VP-6	1/26/23	7/24/23
PCE	156	<10.7

VP-5	1/26/23	7/24/23
TCE	<10.7	26.3

SG-4s	2/6/15	4/16/15	1/26/23	7/24/23
PCE	468	241	<31.9	354
TCE	<10.7	<10.7	<10.7	67.7

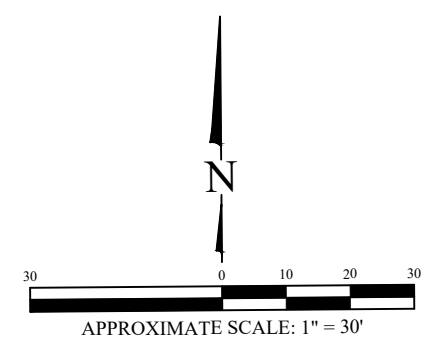
SG-4d	2/6/15	4/16/15	1/26/23	7/24/23
PCE	1,870	1,180	<31.9	<31.9

SG-7s	2/6/15	4/16/15	1/26/23	7/24/23
PCE	<31.9	625	<31.9	135
TCE	<10.7	<10.7	<10.7	21.0

SG-7d	2/6/15	4/16/15	1/26/23	7/24/23
PCE	2,130	1,480	<31.9	42.7
TCE	19.3	<10.7	<10.7	44.1

SG-6s	2/6/15	4/16/15	1/26/23	7/24/23
PCE	475	334	<31.9	80.0
TCE	<10.7	11.8	<10.7	<10.7

SG-6d	2/6/15	4/16/15	1/26/23	7/24/23
PCE	4,710	1,330	<31.9	76.0



VAPOR SAMPLING RESULTS

One Hour Martinizing
6737 West Milwaukee Avenue
Wauwatosa, WI

	Figure
	1
825 North Capitol Avenue • Indianapolis, IN 46204 EnviroForensics.com	Project
	6140

Date:	9/26/22
Designed:	EB
Drawn:	EB
Checked:	BK
DWG file:	6140-1173

TABLE 1
VAPOR ANALYTICAL RESULTS SUMMARY
 One Hour Martinizing
 6737 W. Milwaukee Avenue, Wauwatosa, Wisconsin

Sample Identification	Date Sampled	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
Small Commercial Vapor Risk Screening Level		5,800	290	N.E.	5,800	930
Residential Vapor Risk Screening Level		1,400	70	N.E.	1,400	56
6140-SG-1 Sanitary Sewer Summa Canister	1/26/2023	<31.9	<10.7	<198	<396	<12.8
7-day Passive	1/9-1/26/2023	42	0.547 J	<0.704	<0.704	<0.879
6140-SG-2 Sanitary Sewer Summa Canister	1/26/2023	<31.9	<10.7	<198	<396	<12.8
7-day Passive	1/9-1/26/2023	<0.897	<0.759	<0.704	<0.704	<0.881
6140-SG-4s	2/6/2015	468	<10.7	<198	<396	<12.8
	4/16/2015	241	<10.7	<198	<396	<12.8
	1/26/2023	<31.9	<10.7	<198	<396	<12.8
	7/24/2023	354	67.7	<198	<396	<12.8
6140-SG-4d	2/6/2015	1,870	<10.7	<198	<396	<12.8
	4/16/2015	1,180	<10.7	<198	<396	<12.8
	1/26/2023	<31.9	<10.7	<198	<396	<12.8
	7/24/2023	<31.9	<10.7	<198	<396	<12.8
6140-SG-6s	2/6/2015	475	<10.7	<198	<396	<12.8
	4/16/2015	334	11.8	<198	<396	<12.8
	1/26/2023	<31.9	<10.7	<198	<396	<12.8
	7/24/2023	80.0	<10.7	<198	<396	<12.8
6140-SG-6d	2/6/2015	4,710	<10.7	<198	<396	<12.8
	4/16/2015	1,330	<10.7	<198	<396	<12.8
	1/26/2023	<31.9	<10.7	<198	<396	<12.8
	7/24/2023	76.0	<10.7	<198	<396	<12.8
6140-SG-7s	2/6/2015	<31.9	<10.7	<198	<396	<12.8
	4/16/2015	625	<10.7	<198	<396	<12.8
	1/26/2023	<31.9	<10.7	<198	<396	<12.8
	7/24/2023	135	21.0	<198	<396	<12.8
6140-SG-7d	2/6/2015	2,130	19.3	<198	<396	<12.8
	4/16/2015	1,480	<10.7	<198	<396	<12.8
	1/26/2023	<31.9	<10.7	<198	<396	<12.8
	7/24/2023	42.7	44.1	<198	<396	<12.8
VP-5	1/26/2023	<31.9	<10.7	<198	<396	<12.8
	7/24/2023	<31.9	26.3	<198	<396	<12.8
VP-6	1/26/2023	<31.9	<10.7	<198	<396	<12.8
	7/24/2023	156.0	<10.7	<198	<396	<12.8
<p>Notes: Vapor Risk Screening Levels are calculated according to procedures described in Publication RR-800 All concentrations reported in units of micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) Bolded values are above detection limits Bolded and Blue Shaded values exceed the residential Vapor Risk Screening Level N.E. = Not Established</p>						



EnvisionAir
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www.envision-air.com

Ms. Nicolette Morris
Enviroforensics
825 N. Capitol Ave.
Indianapolis, IN 46204

August 10, 2023

EnvisionAir Project Number: 2023-396
Client Project Name: 6140 OHM Wauwatosa

Dear Ms. Morris,

Please find the attached analytical report for the samples received August 1, 2023. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in black ink that reads "David Norris". The signature is fluid and cursive.

David Norris
Project Manager
EnvisionAir, LLC



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 Fax: 317-351-0882
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Client Name: ENVIROFORENSICS
Project ID: 6140 - OHM WAUWATOSA
Client Project Manager: NICOLETTE MORRIS
EnvisionAir Project Number: 2023-396

Sample Summary

Canister Pressure / Vacuum

<u>Laboratory Sample Number:</u>	<u>Sample Description:</u>	<u>Matrix:</u>	<u>START</u>	<u>START</u>	<u>End Date</u>	<u>End Time</u>	<u>Date</u>	<u>Time</u>	<u>Initial Field</u>	<u>Final Field</u>	<u>Lab</u>
			<u>Date</u>	<u>Time</u>							<u>Collected:</u>
23-2005	6140-SG-4S	A	7/24/23	16:13	7/24/23	16:18	8/1/23	12:49	-30	-3	-3
23-2006	6140-SG-4D	A	7/24/23	15:59	7/24/23	16:04	8/1/23	12:49	-27	-3	-3
23-2007	6140-SG-6S	A	7/24/23	15:20	7/24/23	15:26	8/1/23	12:49	-29	-3	-3
23-2008	6140-SG-6D	A	7/24/23	15:36	7/24/23	15:41	8/1/23	12:49	-30	-3	-3
23-2009	6140-SG-7S	A	7/24/23	14:58	7/24/23	15:03	8/1/23	12:49	-30	-3	-3
23-2010	6140-SG-7D	A	7/24/23	14:37	7/24/23	14:43	8/1/23	12:49	-29	-3	-3
23-2011	6140-VP-5	A	7/24/23	16:54	7/24/23	16:59	8/1/23	12:49	-29	-3	-3
23-2012	6140-VP-6	A	7/24/23	16:50	7/24/23	16:50	8/1/23	12:49	-28	-3	-3



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Client Name: ENVIROFORENSICS
Project ID: 6140 - OHM WAUWATOSA
Client Project Manager: NICOLETTE MORRIS
EnvisionAir Project Number: 2023-396

Analytical Method: TO-15
Analytical Batch: 080323AIR

Client Sample ID: 6140-SG-4S
EnvisionAir Sample Number: 23-2005
Sample Matrix: AIR

Sample Collection START Date/Time: 7/24/23 16:13
Sample Collection END Date/Time: 7/24/23 16:18
Sample Received Date/Time: 8/1/23 12:49

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 4920	4920	
4-Methyl-2-pentanone (MIBK)	< 20500	20500	
1,1,1-Trichloroethane	< 5460	5460	
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1
1,1,2-Trichloroethane	< 2.10	2.10	1
1,1-Dichloroethane	< 40.5	40.5	
1,1-Dichloroethene	< 1980	1980	
1,2,4-Trichlorobenzene	< 7.42	7.42	
1,2,4-Trimethylbenzene	< 49.2	49.2	
1,2-dibromoethane (EDB)	< 0.32	0.32	1
1,2-Dichlorobenzene	< 601	601	
1,2-Dichloroethane	< 4.05	4.05	
1,2-Dichloropropane	< 4.62	4.62	
1,3,5-Trimethylbenzene	< 49.2	49.2	
1,3-Butadiene	< 2.21	2.21	
1,3-Dichlorobenzene	< 601	601	
1,4-Dichlorobenzene	< 6.01	6.01	
1,4-Dioxane	< 18.0	18.0	
2-Butanone (MEK)	< 29500	29500	
2-Hexanone	< 205	205	
Acetone	< 23800	23800	
Benzene	< 16.0	16.0	
Benzyl Chloride	< 4.14	4.14	1
Bromodichloromethane	< 5.36	5.36	1
Bromoform	< 103	103	
Bromomethane	< 38.8	38.8	
Carbon Disulfide	< 3110	3110	
Carbon Tetrachloride	< 6.29	6.29	
Chlorobenzene	< 230	230	
Chloroethane	< 132	132	



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<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 8.30	8.30	
Chloromethane	< 206	206	
cis-1,2-Dichloroethene	< 198	198	
cis-1,3-Dichloropropene	< 45.4	45.4	
Cyclohexane	< 55100	55100	
Dibromochloromethane	< 8.52	8.52	
Dichlorodifluoromethane	< 495	495	
Ethyl Acetate	< 541	541	
Ethylbenzene	< 86.8	86.8	
Hexachloro-1,3-butadiene	< 10.7	10.7	
Isooctane	< 4670	4670	
m,p-Xylene	< 434	434	
Methylene Chloride	< 417	417	
Methyl-tert-butyl ether	< 361	361	
N-Heptane	< 4100	4100	
N-Hexane	< 1760	1760	
Naphthalene	< 5.24	5.24	
o-Xylene	< 434	434	
Propylene	< 1720	1720	
Styrene	< 4260	4260	
Tetrachloroethene	354	31.9	
Tetrahydrofuran	< 2950	2950	
Toluene	< 37700	37700	
trans-1,2-Dichloroethene	< 396	396	
trans-1,3-Dichloropropene	< 45.4	45.4	
Trichloroethene	67.7	10.7	
Trichlorofluoromethane	< 5620	5620	
Vinyl Acetate	< 1760	1760	
Vinyl Bromide	< 4.37	4.37	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	98%		
Analysis Date/Time:	8-5-23/04:39		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6140 - OHM WAUWATOSA
Client Project Manager: NICOLETTE MORRIS
EnvisionAir Project Number: 2023-396

Analytical Method: TO-15
Analytical Batch: 080523AIR

Client Sample ID: 6140-SG-4D
EnvisionAir Sample Number: 23-2006
Sample Matrix: AIR

Sample Collection START Date/Time: 7/24/23 15:59
Sample Collection END Date/Time: 7/24/23 16:04
Sample Received Date/Time: 8/1/23 12:49

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 4920	4920	
4-Methyl-2-pentanone (MIBK)	< 20500	20500	
1,1,1-Trichloroethane	< 5460	5460	
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1
1,1,2-Trichloroethane	< 2.10	2.10	1
1,1-Dichloroethane	< 40.5	40.5	
1,1-Dichloroethene	< 1980	1980	
1,2,4-Trichlorobenzene	< 7.42	7.42	
1,2,4-Trimethylbenzene	< 49.2	49.2	
1,2-dibromoethane (EDB)	< 0.32	0.32	1
1,2-Dichlorobenzene	< 601	601	
1,2-Dichloroethane	< 4.05	4.05	
1,2-Dichloropropane	< 4.62	4.62	
1,3,5-Trimethylbenzene	< 49.2	49.2	
1,3-Butadiene	< 2.21	2.21	
1,3-Dichlorobenzene	< 601	601	
1,4-Dichlorobenzene	< 6.01	6.01	
1,4-Dioxane	< 18.0	18.0	
2-Butanone (MEK)	< 29500	29500	
2-Hexanone	< 205	205	
Acetone	< 23800	23800	
Benzene	< 16.0	16.0	
Benzyl Chloride	< 4.14	4.14	1
Bromodichloromethane	< 5.36	5.36	1
Bromoform	< 103	103	
Bromomethane	< 38.8	38.8	
Carbon Disulfide	< 3110	3110	
Carbon Tetrachloride	< 6.29	6.29	
Chlorobenzene	< 230	230	
Chloroethane	< 132	132	



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<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 8.30	8.30	
Chloromethane	< 206	206	
cis-1,2-Dichloroethene	< 198	198	
cis-1,3-Dichloropropene	< 45.4	45.4	
Cyclohexane	< 55100	55100	
Dibromochloromethane	< 8.52	8.52	
Dichlorodifluoromethane	< 495	495	
Ethyl Acetate	< 541	541	
Ethylbenzene	< 86.8	86.8	
Hexachloro-1,3-butadiene	< 10.7	10.7	
Isooctane	< 4670	4670	
m,p-Xylene	< 434	434	
Methylene Chloride	< 417	417	
Methyl-tert-butyl ether	< 361	361	
N-Heptane	< 4100	4100	
N-Hexane	< 1760	1760	
Naphthalene	< 5.24	5.24	
o-Xylene	< 434	434	
Propylene	< 1720	1720	
Styrene	< 4260	4260	
Tetrachloroethene	< 31.9	31.9	
Tetrahydrofuran	< 2950	2950	
Toluene	< 37700	37700	
trans-1,2-Dichloroethene	< 396	396	
trans-1,3-Dichloropropene	< 45.4	45.4	
Trichloroethene	< 10.7	10.7	
Trichlorofluoromethane	< 5620	5620	
Vinyl Acetate	< 1760	1760	
Vinyl Bromide	< 4.37	4.37	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	96%		
Analysis Date/Time:	8-5-23/08:51		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6140 - OHM WAUWATOSA
Client Project Manager: NICOLETTE MORRIS
EnvisionAir Project Number: 2023-396

Analytical Method: TO-15
Analytical Batch: 080523AIR

Client Sample ID: 6140-SG-6S
EnvisionAir Sample Number: 23-2007
Sample Matrix: AIR

Sample Collection START Date/Time: 7/24/23 15:20
Sample Collection END Date/Time: 7/24/23 15:26
Sample Received Date/Time: 8/1/23 12:49

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 4920	4920	
4-Methyl-2-pentanone (MIBK)	< 20500	20500	
1,1,1-Trichloroethane	< 5460	5460	
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1
1,1,2-Trichloroethane	< 2.10	2.10	1
1,1-Dichloroethane	< 40.5	40.5	
1,1-Dichloroethene	< 1980	1980	
1,2,4-Trichlorobenzene	< 7.42	7.42	
1,2,4-Trimethylbenzene	< 49.2	49.2	
1,2-dibromoethane (EDB)	< 0.32	0.32	1
1,2-Dichlorobenzene	< 601	601	
1,2-Dichloroethane	< 4.05	4.05	
1,2-Dichloropropane	< 4.62	4.62	
1,3,5-Trimethylbenzene	< 49.2	49.2	
1,3-Butadiene	< 2.21	2.21	
1,3-Dichlorobenzene	< 601	601	
1,4-Dichlorobenzene	< 6.01	6.01	
1,4-Dioxane	< 18.0	18.0	
2-Butanone (MEK)	< 29500	29500	
2-Hexanone	< 205	205	
Acetone	< 23800	23800	
Benzene	< 16.0	16.0	
Benzyl Chloride	< 4.14	4.14	1
Bromodichloromethane	< 5.36	5.36	1
Bromoform	< 103	103	
Bromomethane	< 38.8	38.8	
Carbon Disulfide	< 3110	3110	
Carbon Tetrachloride	< 6.29	6.29	
Chlorobenzene	< 230	230	
Chloroethane	< 132	132	



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<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 8.30	8.30	
Chloromethane	< 206	206	
cis-1,2-Dichloroethene	< 198	198	
cis-1,3-Dichloropropene	< 45.4	45.4	
Cyclohexane	< 55100	55100	
Dibromochloromethane	< 8.52	8.52	
Dichlorodifluoromethane	< 495	495	
Ethyl Acetate	< 541	541	
Ethylbenzene	< 86.8	86.8	
Hexachloro-1,3-butadiene	< 10.7	10.7	
Isooctane	< 4670	4670	
m,p-Xylene	< 434	434	
Methylene Chloride	< 417	417	
Methyl-tert-butyl ether	< 361	361	
N-Heptane	< 4100	4100	
N-Hexane	< 1760	1760	
Naphthalene	< 5.24	5.24	
o-Xylene	< 434	434	
Propylene	< 1720	1720	
Styrene	< 4260	4260	
Tetrachloroethene	80.0	31.9	
Tetrahydrofuran	< 2950	2950	
Toluene	< 37700	37700	
trans-1,2-Dichloroethene	< 396	396	
trans-1,3-Dichloropropene	< 45.4	45.4	
Trichloroethene	< 10.7	10.7	
Trichlorofluoromethane	< 5620	5620	
Vinyl Acetate	< 1760	1760	
Vinyl Bromide	< 4.37	4.37	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	102%		
Analysis Date/Time:	8-5-23/09:27		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6140 - OHM WAUWATOSA
Client Project Manager: NICOLETTE MORRIS
EnvisionAir Project Number: 2023-396

Analytical Method: TO-15
Analytical Batch: 080523AIR

Client Sample ID: 6140-SG-6D
EnvisionAir Sample Number: 23-2008
Sample Matrix: AIR

Sample Collection START Date/Time: 7/24/23 15:36
Sample Collection END Date/Time: 7/24/23 15:41
Sample Received Date/Time: 8/1/23 12:49

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 4920	4920	
4-Methyl-2-pentanone (MIBK)	< 20500	20500	
1,1,1-Trichloroethane	< 5460	5460	
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1
1,1,2-Trichloroethane	< 2.10	2.10	1
1,1-Dichloroethane	< 40.5	40.5	
1,1-Dichloroethene	< 1980	1980	
1,2,4-Trichlorobenzene	< 7.42	7.42	
1,2,4-Trimethylbenzene	< 49.2	49.2	
1,2-dibromoethane (EDB)	< 0.32	0.32	1
1,2-Dichlorobenzene	< 601	601	
1,2-Dichloroethane	< 4.05	4.05	
1,2-Dichloropropane	< 4.62	4.62	
1,3,5-Trimethylbenzene	< 49.2	49.2	
1,3-Butadiene	< 2.21	2.21	
1,3-Dichlorobenzene	< 601	601	
1,4-Dichlorobenzene	< 6.01	6.01	
1,4-Dioxane	< 18.0	18.0	
2-Butanone (MEK)	< 29500	29500	
2-Hexanone	< 205	205	
Acetone	< 23800	23800	
Benzene	< 16.0	16.0	
Benzyl Chloride	< 4.14	4.14	1
Bromodichloromethane	< 5.36	5.36	1
Bromoform	< 103	103	
Bromomethane	< 38.8	38.8	
Carbon Disulfide	< 3110	3110	
Carbon Tetrachloride	< 6.29	6.29	
Chlorobenzene	< 230	230	
Chloroethane	< 132	132	



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<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 8.30	8.30	
Chloromethane	< 206	206	
cis-1,2-Dichloroethene	< 198	198	
cis-1,3-Dichloropropene	< 45.4	45.4	
Cyclohexane	< 55100	55100	
Dibromochloromethane	< 8.52	8.52	
Dichlorodifluoromethane	< 495	495	
Ethyl Acetate	< 541	541	
Ethylbenzene	< 86.8	86.8	
Hexachloro-1,3-butadiene	< 10.7	10.7	
Isooctane	< 4670	4670	
m,p-Xylene	< 434	434	
Methylene Chloride	< 417	417	
Methyl-tert-butyl ether	< 361	361	
N-Heptane	< 4100	4100	
N-Hexane	< 1760	1760	
Naphthalene	< 5.24	5.24	
o-Xylene	< 434	434	
Propylene	< 1720	1720	
Styrene	< 4260	4260	
Tetrachloroethene	76.0	31.9	
Tetrahydrofuran	< 2950	2950	
Toluene	< 37700	37700	
trans-1,2-Dichloroethene	< 396	396	
trans-1,3-Dichloropropene	< 45.4	45.4	
Trichloroethene	< 10.7	10.7	
Trichlorofluoromethane	< 5620	5620	
Vinyl Acetate	< 1760	1760	
Vinyl Bromide	< 4.37	4.37	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	96%		
Analysis Date/Time:	8-5-23/10:03		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6140 - OHM WAUWATOSA
Client Project Manager: NICOLETTE MORRIS
EnvisionAir Project Number: 2023-396

Analytical Method: TO-15
Analytical Batch: 080523AIR

Client Sample ID: 6140-SG-7S
EnvisionAir Sample Number: 23-2009
Sample Matrix: AIR

Sample Collection START Date/Time: 7/24/23 14:58
Sample Collection END Date/Time: 7/24/23 15:03
Sample Received Date/Time: 8/1/23 12:49

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 4920	4920	
4-Methyl-2-pentanone (MIBK)	< 20500	20500	
1,1,1-Trichloroethane	< 5460	5460	
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1
1,1,2-Trichloroethane	< 2.10	2.10	1
1,1-Dichloroethane	< 40.5	40.5	
1,1-Dichloroethene	< 1980	1980	
1,2,4-Trichlorobenzene	< 7.42	7.42	
1,2,4-Trimethylbenzene	< 49.2	49.2	
1,2-dibromoethane (EDB)	< 0.32	0.32	1
1,2-Dichlorobenzene	< 601	601	
1,2-Dichloroethane	< 4.05	4.05	
1,2-Dichloropropane	< 4.62	4.62	
1,3,5-Trimethylbenzene	< 49.2	49.2	
1,3-Butadiene	< 2.21	2.21	
1,3-Dichlorobenzene	< 601	601	
1,4-Dichlorobenzene	< 6.01	6.01	
1,4-Dioxane	< 18.0	18.0	
2-Butanone (MEK)	< 29500	29500	
2-Hexanone	< 205	205	
Acetone	< 23800	23800	
Benzene	< 16.0	16.0	
Benzyl Chloride	< 4.14	4.14	1
Bromodichloromethane	< 5.36	5.36	1
Bromoform	< 103	103	
Bromomethane	< 38.8	38.8	
Carbon Disulfide	< 3110	3110	
Carbon Tetrachloride	< 6.29	6.29	
Chlorobenzene	< 230	230	
Chloroethane	< 132	132	



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<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 8.30	8.30	
Chloromethane	< 206	206	
cis-1,2-Dichloroethene	< 198	198	
cis-1,3-Dichloropropene	< 45.4	45.4	
Cyclohexane	< 55100	55100	
Dibromochloromethane	< 8.52	8.52	
Dichlorodifluoromethane	< 495	495	
Ethyl Acetate	< 541	541	
Ethylbenzene	< 86.8	86.8	
Hexachloro-1,3-butadiene	< 10.7	10.7	
Isooctane	< 4670	4670	
m,p-Xylene	< 434	434	
Methylene Chloride	< 417	417	
Methyl-tert-butyl ether	< 361	361	
N-Heptane	< 4100	4100	
N-Hexane	< 1760	1760	
Naphthalene	< 5.24	5.24	
o-Xylene	< 434	434	
Propylene	< 1720	1720	
Styrene	< 4260	4260	
Tetrachloroethene	135	31.9	
Tetrahydrofuran	< 2950	2950	
Toluene	< 37700	37700	
trans-1,2-Dichloroethene	< 396	396	
trans-1,3-Dichloropropene	< 45.4	45.4	
Trichloroethene	21.0	10.7	
Trichlorofluoromethane	< 5620	5620	
Vinyl Acetate	< 1760	1760	
Vinyl Bromide	< 4.37	4.37	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	108%		
Analysis Date/Time:	8-5-23/10:38		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6140 - OHM WAUWATOSA
Client Project Manager: NICOLETTE MORRIS
EnvisionAir Project Number: 2023-396

Analytical Method: TO-15
Analytical Batch: 080523AIR

Client Sample ID: 6140-SG-7D
EnvisionAir Sample Number: 23-2010
Sample Matrix: AIR

Sample Collection START Date/Time: 7/24/23 14:37
Sample Collection END Date/Time: 7/24/23 14:43
Sample Received Date/Time: 8/1/23 12:49

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 4920	4920	
4-Methyl-2-pentanone (MIBK)	< 20500	20500	
1,1,1-Trichloroethane	< 5460	5460	
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1
1,1,2-Trichloroethane	< 2.10	2.10	1
1,1-Dichloroethane	< 40.5	40.5	
1,1-Dichloroethene	< 1980	1980	
1,2,4-Trichlorobenzene	< 7.42	7.42	
1,2,4-Trimethylbenzene	< 49.2	49.2	
1,2-dibromoethane (EDB)	< 0.32	0.32	1
1,2-Dichlorobenzene	< 601	601	
1,2-Dichloroethane	< 4.05	4.05	
1,2-Dichloropropane	< 4.62	4.62	
1,3,5-Trimethylbenzene	< 49.2	49.2	
1,3-Butadiene	< 2.21	2.21	
1,3-Dichlorobenzene	< 601	601	
1,4-Dichlorobenzene	< 6.01	6.01	
1,4-Dioxane	< 18.0	18.0	
2-Butanone (MEK)	< 29500	29500	
2-Hexanone	< 205	205	
Acetone	< 23800	23800	
Benzene	< 16.0	16.0	
Benzyl Chloride	< 4.14	4.14	1
Bromodichloromethane	< 5.36	5.36	1
Bromoform	< 103	103	
Bromomethane	< 38.8	38.8	
Carbon Disulfide	< 3110	3110	
Carbon Tetrachloride	< 6.29	6.29	
Chlorobenzene	< 230	230	
Chloroethane	< 132	132	



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<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 8.30	8.30	
Chloromethane	< 206	206	
cis-1,2-Dichloroethene	< 198	198	
cis-1,3-Dichloropropene	< 45.4	45.4	
Cyclohexane	< 55100	55100	
Dibromochloromethane	< 8.52	8.52	
Dichlorodifluoromethane	< 495	495	
Ethyl Acetate	< 541	541	
Ethylbenzene	< 86.8	86.8	
Hexachloro-1,3-butadiene	< 10.7	10.7	
Isooctane	< 4670	4670	
m,p-Xylene	< 434	434	
Methylene Chloride	< 417	417	
Methyl-tert-butyl ether	< 361	361	
N-Heptane	< 4100	4100	
N-Hexane	< 1760	1760	
Naphthalene	< 5.24	5.24	
o-Xylene	< 434	434	
Propylene	< 1720	1720	
Styrene	< 4260	4260	
Tetrachloroethene	42.7	31.9	
Tetrahydrofuran	< 2950	2950	
Toluene	< 37700	37700	
trans-1,2-Dichloroethene	< 396	396	
trans-1,3-Dichloropropene	< 45.4	45.4	
Trichloroethene	44.1	10.7	
Trichlorofluoromethane	< 5620	5620	
Vinyl Acetate	< 1760	1760	
Vinyl Bromide	< 4.37	4.37	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	101%		
Analysis Date/Time:	8-5-23/11:14		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6140 - OHM WAUWATOSA
Client Project Manager: NICOLETTE MORRIS
EnvisionAir Project Number: 2023-396

Analytical Method: TO-15
Analytical Batch: 080523AIR

Client Sample ID: 6140-VP-5
EnvisionAir Sample Number: 23-2011
Sample Matrix: AIR

Sample Collection START Date/Time: 7/24/23 16:54
Sample Collection END Date/Time: 7/24/23 16:59
Sample Received Date/Time: 8/1/23 12:49

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 4920	4920	
4-Methyl-2-pentanone (MIBK)	< 20500	20500	
1,1,1-Trichloroethane	< 5460	5460	
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1
1,1,2-Trichloroethane	< 2.10	2.10	1
1,1-Dichloroethane	< 40.5	40.5	
1,1-Dichloroethene	< 1980	1980	
1,2,4-Trichlorobenzene	< 7.42	7.42	
1,2,4-Trimethylbenzene	< 49.2	49.2	
1,2-dibromoethane (EDB)	< 0.32	0.32	1
1,2-Dichlorobenzene	< 601	601	
1,2-Dichloroethane	< 4.05	4.05	
1,2-Dichloropropane	< 4.62	4.62	
1,3,5-Trimethylbenzene	< 49.2	49.2	
1,3-Butadiene	< 2.21	2.21	
1,3-Dichlorobenzene	< 601	601	
1,4-Dichlorobenzene	< 6.01	6.01	
1,4-Dioxane	< 18.0	18.0	
2-Butanone (MEK)	< 29500	29500	
2-Hexanone	< 205	205	
Acetone	< 23800	23800	
Benzene	< 16.0	16.0	
Benzyl Chloride	< 4.14	4.14	1
Bromodichloromethane	< 5.36	5.36	1
Bromoform	< 103	103	
Bromomethane	< 38.8	38.8	
Carbon Disulfide	< 3110	3110	
Carbon Tetrachloride	< 6.29	6.29	
Chlorobenzene	< 230	230	
Chloroethane	< 132	132	



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<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 8.30	8.30	
Chloromethane	< 206	206	
cis-1,2-Dichloroethene	< 198	198	
cis-1,3-Dichloropropene	< 45.4	45.4	
Cyclohexane	< 55100	55100	
Dibromochloromethane	< 8.52	8.52	
Dichlorodifluoromethane	< 495	495	
Ethyl Acetate	< 541	541	
Ethylbenzene	< 86.8	86.8	
Hexachloro-1,3-butadiene	< 10.7	10.7	
Isooctane	< 4670	4670	
m,p-Xylene	< 434	434	
Methylene Chloride	< 417	417	
Methyl-tert-butyl ether	< 361	361	
N-Heptane	< 4100	4100	
N-Hexane	< 1760	1760	
Naphthalene	< 5.24	5.24	
o-Xylene	< 434	434	
Propylene	< 1720	1720	
Styrene	< 4260	4260	
Tetrachloroethene	< 31.9	31.9	
Tetrahydrofuran	< 2950	2950	
Toluene	< 37700	37700	
trans-1,2-Dichloroethene	< 396	396	
trans-1,3-Dichloropropene	< 45.4	45.4	
Trichloroethene	26.3	10.7	
Trichlorofluoromethane	< 5620	5620	
Vinyl Acetate	< 1760	1760	
Vinyl Bromide	< 4.37	4.37	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	98%		
Analysis Date/Time:	8-5-23/11:50		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6140 - OHM WAUWATOSA
Client Project Manager: NICOLETTE MORRIS
EnvisionAir Project Number: 2023-396

Analytical Method: TO-15
Analytical Batch: 080523AIR

Client Sample ID: 6140-VP-6
EnvisionAir Sample Number: 23-2012
Sample Matrix: AIR

Sample Collection START Date/Time: 7/24/23 16:50
Sample Collection END Date/Time: 7/24/23 16:50
Sample Received Date/Time: 8/1/23 12:49

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 4920	4920	
4-Methyl-2-pentanone (MIBK)	< 20500	20500	
1,1,1-Trichloroethane	< 5460	5460	
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1
1,1,2-Trichloroethane	< 2.10	2.10	1
1,1-Dichloroethane	< 40.5	40.5	
1,1-Dichloroethene	< 1980	1980	
1,2,4-Trichlorobenzene	< 7.42	7.42	
1,2,4-Trimethylbenzene	< 49.2	49.2	
1,2-dibromoethane (EDB)	< 0.32	0.32	1
1,2-Dichlorobenzene	< 601	601	
1,2-Dichloroethane	< 4.05	4.05	
1,2-Dichloropropane	< 4.62	4.62	
1,3,5-Trimethylbenzene	< 49.2	49.2	
1,3-Butadiene	< 2.21	2.21	
1,3-Dichlorobenzene	< 601	601	
1,4-Dichlorobenzene	< 6.01	6.01	
1,4-Dioxane	< 18.0	18.0	
2-Butanone (MEK)	< 29500	29500	
2-Hexanone	< 205	205	
Acetone	< 23800	23800	
Benzene	< 16.0	16.0	
Benzyl Chloride	< 4.14	4.14	1
Bromodichloromethane	< 5.36	5.36	1
Bromoform	< 103	103	
Bromomethane	< 38.8	38.8	
Carbon Disulfide	< 3110	3110	
Carbon Tetrachloride	< 6.29	6.29	
Chlorobenzene	< 230	230	
Chloroethane	< 132	132	



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<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 8.30	8.30	
Chloromethane	< 206	206	
cis-1,2-Dichloroethene	< 198	198	
cis-1,3-Dichloropropene	< 45.4	45.4	
Cyclohexane	< 55100	55100	
Dibromochloromethane	< 8.52	8.52	
Dichlorodifluoromethane	< 495	495	
Ethyl Acetate	< 541	541	
Ethylbenzene	< 86.8	86.8	
Hexachloro-1,3-butadiene	< 10.7	10.7	
Isooctane	< 4670	4670	
m,p-Xylene	< 434	434	
Methylene Chloride	< 417	417	
Methyl-tert-butyl ether	< 361	361	
N-Heptane	< 4100	4100	
N-Hexane	< 1760	1760	
Naphthalene	< 5.24	5.24	
o-Xylene	< 434	434	
Propylene	< 1720	1720	
Styrene	< 4260	4260	
Tetrachloroethene	156	31.9	
Tetrahydrofuran	< 2950	2950	
Toluene	< 37700	37700	
trans-1,2-Dichloroethene	< 396	396	
trans-1,3-Dichloropropene	< 45.4	45.4	
Trichloroethene	< 10.7	10.7	
Trichlorofluoromethane	< 5620	5620	
Vinyl Acetate	< 1760	1760	
Vinyl Bromide	< 4.37	4.37	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	107%		
Analysis Date/Time:	8-5-23/12:26		
Analyst Initials	tjg		



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Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 080323AIR

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>
4-Ethyltoluene	< 100	100	
4-Methyl-2-pentanone (MIBK)	< 500	500	
1,1,1-Trichloroethane	< 100	100	
1,1,1,2-Tetrachloroethane	< 0.049	0.049	1
1,1,2-Trichloroethane	< 0.038	0.038	1
1,1-Dichloroethane	< 1	1	
1,1-Dichloroethene	< 50	50	
1,2,4-Trichlorobenzene	< 0.1	0.1	
1,2,4-Trimethylbenzene	< 1	1	
1,2-dibromoethane (EDB)	< 0.0041	0.0041	1
1,2-Dichlorobenzene	< 10	10	
1,2-Dichloroethane	< 0.1	0.1	
1,2-Dichloropropane	< 0.1	0.1	
1,3,5-Trimethylbenzene	< 1	1	
1,3-Butadiene	< 0.1	0.1	
1,3-Dichlorobenzene	< 10	10	
1,4-Dichlorobenzene	< 0.1	0.1	
1,4-Dioxane	< 0.5	0.5	
2-Butanone (MEK)	< 1000	1000	
2-Hexanone	< 5	5	
Acetone	< 1000	1000	
Benzene	< 0.5	0.5	
Benzyl Chloride	< 0.08	0.08	1
Bromodichloromethane	< 0.08	0.08	1
Bromoform	< 1	1	
Bromomethane	< 1	1	
Carbon Disulfide	< 100	100	
Carbon Tetrachloride	< 0.1	0.1	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
Chloroform	< 0.17	0.17	
Chloromethane	< 10	10	
cis-1,2-Dichloroethene	< 5	5	
cis-1,3-Dichloropropene	< 1	1	
Cyclohexane	< 1600	1600	
Dibromochloromethane	< 0.1	0.1	
Dichlorodifluoromethane	< 10	10	
Ethyl Acetate	< 15	15	
Ethylbenzene	< 2	2	
Hexachloro-1,3-butadiene	< 0.1	0.1	
Isooctane	< 100	100	
m,p-Xylene	< 10	10	
Methylene Chloride	< 12	12	
Methyl-tert-butyl ether	< 10	10	
N-Heptane	< 100	100	
N-Hexane	< 50	50	
Naphthalene	< 0.1	0.1	
o-Xylene	< 10	10	
Propylene	< 100	100	
Styrene	< 100	100	
Tetrachloroethene	< 0.47	0.47	
Tetrahydrofuran	< 100	100	



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Analytical Report

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>
Toluene	< 1000	1000	
trans-1,2-Dichloroethene	< 10	10	
trans-1,3-Dichloropropene	< 1	1	
Trichloroethene	< 0.2	0.2	
Trichlorofluoromethane	< 100	100	
Vinyl Acetate	< 50	50	
Vinyl Bromide	< 0.1	0.1	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	96%		
Analysis Date/Time:	8-4-23/19:22		
Analyst Initials	tjg		

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D</u> <u>Conc(ppbv)</u>	<u>LCS</u> <u>Rec.</u>	<u>LCSD</u> <u>Rec.</u>	<u>RPD</u>	<u>Flag</u>
Propylene	9.4	9.54	10	94%	95%	1.5%	
Dichlorodifluoromethane	11	9.74	10	110%	97%	12.2%	
Chloromethane	8.75	8.78	10	88%	88%	0.3%	
Vinyl Chloride	9	9.13	10	90%	91%	1.4%	
1,3-Butadiene	9.35	8.34	10	94%	83%	11.4%	
Bromomethane	9.88	9.62	10	99%	96%	2.7%	
Chloroethane	9.4	10.7	10	94%	107%	12.9%	
Vinyl Bromide	10.7	10.7	10	107%	107%	0.0%	
Trichlorofluoromethane	9.74	10.3	10	97%	103%	5.6%	
Acetone	10.1	10.6	10	101%	106%	4.8%	
1,1-Dichloroethene	10	9.66	10	100%	97%	3.5%	
Methylene Chloride	9.21	9.83	10	92%	98%	6.5%	
Carbon Disulfide	8.92	9.97	10	89%	100%	11.1%	
trans-1,2-Dichloroethene	9.67	9.87	10	97%	99%	2.0%	
Methyl-tert-butyl ether	9.88	11.1	10	99%	111%	11.6%	
1,1-Dichloroethane	10.5	9.65	10	105%	97%	8.4%	
Vinyl Acetate	10.2	9.9	10	102%	99%	3.0%	
N-Hexane	10.2	9.56	10	102%	96%	6.5%	
2-Butanone (MEK)	9.1	9.31	10	91%	93%	2.3%	
cis-1,2-Dichloroethene	10.2	9.15	10	102%	92%	10.9%	
Ethyl Acetate	10.7	9.73	10	107%	97%	9.5%	
Chloroform	11	9.57	10	110%	96%	13.9%	
Tetrahydrofuran	10.6	9.38	10	106%	94%	12.2%	
1,2-Dichloroethane	9.5	8.98	10	95%	90%	5.6%	
1,1,1-Trichloroethane	10.4	9.64	10	104%	96%	7.6%	
Carbon Tetrachloride	10.4	9.58	10	104%	96%	8.2%	
Benzene	10.9	10	10	109%	100%	8.6%	
Cyclohexane	9.8	8.06	10	98%	81%	19.5%	
1,2-Dichloropropane	9.31	9.46	10	93%	95%	1.6%	
Trichloroethene	10.3	9.48	10	103%	95%	8.3%	
Bromodichloromethane	10.9	10	10	109%	100%	8.6%	
1,4-Dioxane	9.92	10.8	10	99%	108%	8.5%	
Isooctane	9.77	10.9	10	98%	109%	10.9%	
N-Heptane	10.2	9.13	10	102%	91%	11.1%	
cis-1,3-Dichloropropene	10.6	10.6	10	106%	106%	0.0%	
4-Methyl-2-pentanone (MIBK)	10.8	9.63	10	108%	96%	11.5%	
trans-1,3-Dichloropropene	9.98	9.67	10	100%	97%	3.2%	
1,1,2-Trichloroethane	9.44	9.79	10	94%	98%	3.6%	
Toluene	10.1	9	10	101%	90%	11.5%	
2-Hexanone	9.94	10.8	10	99%	108%	8.3%	
Dibromochloromethane	10.6	10.7	10	106%	107%	0.9%	
1,2-dibromoethane (EDB)	9.49	10.7	10	95%	107%	12.0%	
Tetrachloroethene	10.9	10.4	10	109%	104%	4.7%	
Chlorobenzene	9.87	9.48	10	99%	95%	4.0%	
Ethylbenzene	10.3	9.86	10	103%	99%	4.4%	
m,p-Xylene	19.5	20.3	20	98%	102%	4.0%	
Bromoform	9.93	10.2	10	99%	102%	2.7%	



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Analytical Report

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D Conc(ppbv)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>RPD</u>	<u>Flag</u>
Styrene	10.7	10.3	10	107%	103%	3.8%	
1,1,2,2-Tetrachloroethane	10.5	9.89	10	105%	99%	6.0%	
o-Xylene	10.1	9.4	10	101%	94%	7.2%	
4-Ethyltoluene	10.8	10.2	10	108%	102%	5.7%	
1,3,5-Trimethylbenzene	10.4	9.88	10	104%	99%	5.1%	
1,2,4-Trimethylbenzene	9.92	9.88	10	99%	99%	0.4%	
1,3-Dichlorobenzene	10.2	10.1	10	102%	101%	1.0%	
Benzyl Chloride	10.8	9.72	10	108%	97%	10.5%	
1,4-Dichlorobenzene	9.9	10.7	10	99%	107%	7.8%	
1,2-Dichlorobenzene	10.4	10.1	10	104%	101%	2.9%	
1,2,4-Trichlorobenzene	9.2	9.49	10	92%	95%	3.1%	
Naphthalene	9.69	10.2	10	97%	102%	5.1%	
Hexachloro-1,3-butadiene	10.1	9.98	10	101%	100%	1.2%	
4-bromofluorobenzene (surrogate)	93%	97%					
Analysis Date/Time:	8-4-23/17:27	8-4-23/21:59					
Analyst Initials	tjg	tjg					



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Flag Number

1

Comments

Reporting limit is supported by MDL. TJG

CHAIN OF CUSTODY RECORD

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REQUESTED PARAMETERS

Client: <u>N/P</u>	P.O. Number:
Report: <u>825 N Capitol Ave</u>	Project Name or Number: <u>6140</u>
Address: <u>Indpls, IN</u>	<u>01M</u>
Report To: <u>N. Morris</u>	Sampled by: <u>L. Moore</u>
Phone: <u>(317) 972-7878</u>	QA/QC Required: (circle if applicable) Level III <u>Level IV</u>
Invoice Address: <u>same</u>	Reporting Units needed: (circle) <u>ug/m³</u> mg/m ³ PPBV PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days <u>Std (5 bus. days)</u>	Media type: <u>11C = 1 Liter Canister</u> <u>61C = 6 Liter Canister</u> <u>TB = Teflon Bag</u> <u>TD = Thermal Description Tube</u>

TO-15 Full List
TO-15 Short List (Specify in notes)

Sampling Type:
Soil-Gas:
Sub-Slab:
Indoor-Air:

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Air Sample ID	Media Type <small>(See code sheet)</small>	Coll. Date <small>(Start/End)</small>	Coll. Time <small>(Start/End)</small>	Coll. Date <small>(Start/End)</small>	Coll. Time <small>(Start/End)</small>	Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
6140-S6-45	11C	7/24/23	1613	7/24/23	1618	83759	0111	-30	-3	-3	23-2005
6140-S6-4d	11C	7/24/23	1559	7/24/23	1604	520	0138	-27	-3	-3	23-2006
6140-S6-65	11C	7/24/23	1526	7/24/23	1526	2250	0028	-29	-3	-3	23-2007
6140-S6-6ed	11C	7/24/23	1536	7/24/23	1541	83728	0065	-30	-3	-3	23-2008
6140-S6-7c	11C	7/24/23	1458	7/24/23	1503	83977	0125	-30	-3	-3	23-2009
6140-S6-7d	11C	7/24/23	1437	7/24/23	1443	81439	0095	-29	-3	-3	23-2010
6140-VP-5	11C	7/24/23	1654	7/24/23	1659	83729	0131	-29	-3	-3	23-2011
6140-VP-6	11C	7/24/23	1656	7/24/23	1650	519	0017	-28	-3	-3	23-2012

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
	8-1-23	12:49		8-1-23	12:49



EnvisionAir
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Mr. Wayne Fassbender
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

February 7, 2023

EnvisionAir Project Number: 2023-68
Client Project Name: 6140 – OHM Wauwatosa

Dear Mr. Fassbender,

Please find the attached analytical report for the samples received January 30, 2023. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in black ink that reads "David Norris". The signature is fluid and cursive.

David Norris
Project Manager
EnvisionAir, LLC



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Client Name: ENVIROFORENSICS
Project ID: 6140 - OHM WAUWATOSA
Client Project Manager: WAYNE FASSBENDER
EnvisionAir Project Number: 2023-68

Sample Summary

Canister Pressure / Vacuum

<u>Laboratory Sample Number:</u>	<u>Sample Description:</u>	<u>Matrix:</u>	<u>START</u>	<u>START</u>	<u>End Date</u>	<u>End Time</u>	<u>Date</u>	<u>Time</u>	<i>Canister Pressure / Vacuum</i>		<u>Lab</u>
			<u>Date</u>	<u>Time</u>					<u>Initial Field</u>	<u>Final Field</u>	
			<u>Collected:</u>	<u>Collected:</u>	<u>Collected:</u>	<u>Collected:</u>	<u>Received:</u>	<u>Received</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>
23-283	6140-SG-1	A	1/26/23	10:36	1/26/23	10:42	1/30/23	12:00	-26	5	5
23-284	6140-SG-2	A	1/26/23	10:52	1/26/23	11:06	1/30/23	12:00	-25	-5	-5
23-285	6140-VP-5	A	1/26/23	13:45	1/26/23	13:49	1/30/23	12:00	-27	-5	-5
23-286	6140-VP-6	A	1/26/23	13:30	1/26/23	13:34	1/30/23	12:00	-28	-4	-4
23-287	6140-SG-4S	A	1/26/23	11:45	1/26/23	11:48	1/30/23	12:00	-26	-4	-4
23-288	6140-SG-4D	A	1/26/23	12:01	1/26/23	12:06	1/30/23	12:00	-30	-5	-5
23-289	6140-SG-6S	A	1/26/23	12:17	1/26/23	12:24	1/30/23	12:00	-28	-4	-4
23-290	6140-SG-6D	A	1/26/23	12:36	1/26/23	12:41	1/30/23	12:00	-30	-3	-3
23-291	6140-SG-7S	A	1/26/23	12:58	1/26/23	13:03	1/30/23	12:00	-28	-4	-4
23-292	6140-SG-7D	A	1/26/23	13:19	1/26/23	13:24	1/30/23	12:00	-28	-5	-5



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Client Name: ENVIROFORENSICS
Project ID: 6140 - OHM WAUWATOSA
Client Project Manager: WAYNE FASSBENDER
EnvisionAir Project Number: 2023-68

Analytical Method: TO-15
Analytical Batch: 020223AIR

Client Sample ID: 6140-SG-1
EnvisionAir Sample Number: 23-283
Sample Matrix: AIR

Sample Collection START Date/Time: 1/26/23 10:36
Sample Collection END Date/Time: 1/26/23 10:42
Sample Received Date/Time: 1/30/23 13:00

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	< 31.9	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	93%		
Analysis Date/Time:	2-2-23/00:38		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6140 - OHM WAUWATOSA
Client Project Manager: WAYNE FASSBENDER
EnvisionAir Project Number: 2023-68

Analytical Method: TO-15
Analytical Batch: 020223AIR

Client Sample ID: 6140-SG-2
EnvisionAir Sample Number: 23-284
Sample Matrix: AIR

Sample Collection START Date/Time: 1/26/23 10:52
Sample Collection END Date/Time: 1/26/23 11:06
Sample Received Date/Time: 1/30/23 13:00

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	< 31.9	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	99%		
Analysis Date/Time:	2-3-23/01:14		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6140 - OHM WAUWATOSA
Client Project Manager: WAYNE FASSBENDER
EnvisionAir Project Number: 2023-68

Analytical Method: TO-15
Analytical Batch: 020223AIR

Client Sample ID: 6140-VP-5
EnvisionAir Sample Number: 23-285
Sample Matrix: AIR

Sample Collection START Date/Time: 1/26/23 13:45
Sample Collection END Date/Time: 1/26/23 13:49
Sample Received Date/Time: 1/30/23 13:00

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	< 31.9	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	97%		
Analysis Date/Time:	2-3-23/01:50		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6140 - OHM WAUWATOSA
Client Project Manager: WAYNE FASSBENDER
EnvisionAir Project Number: 2023-68

Analytical Method: TO-15
Analytical Batch: 020223AIR

Client Sample ID: 6140-VP-6
EnvisionAir Sample Number: 23-286
Sample Matrix: AIR

Sample Collection START Date/Time: 1/26/23 13:30
Sample Collection END Date/Time: 1/26/23 13:34
Sample Received Date/Time: 1/30/23 13:00

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	< 31.9	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	96%		
Analysis Date/Time:	2-3-23/02:26		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6140 - OHM WAUWATOSA
Client Project Manager: WAYNE FASSBENDER
EnvisionAir Project Number: 2023-68

Analytical Method: TO-15
Analytical Batch: 020223AIR

Client Sample ID: 6140-SG-4S
EnvisionAir Sample Number: 23-287
Sample Matrix: AIR

Sample Collection START Date/Time: 1/26/23 11:45
Sample Collection END Date/Time: 1/26/23 11:48
Sample Received Date/Time: 1/30/23 13:00

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	< 31.9	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	95%		
Analysis Date/Time:	2-3-23/03:00		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6140 - OHM WAUWATOSA
Client Project Manager: WAYNE FASSBENDER
EnvisionAir Project Number: 2023-68

Analytical Method: TO-15
Analytical Batch: 020223AIR

Client Sample ID: 6140-SG-4D
EnvisionAir Sample Number: 23-288
Sample Matrix: AIR

Sample Collection START Date/Time: 1/26/23 12:01
Sample Collection END Date/Time: 1/26/23 12:06
Sample Received Date/Time: 1/30/23 13:00

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	< 31.9	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	89%		
Analysis Date/Time:	2-3-23/03:36		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6140 - OHM WAUWATOSA
Client Project Manager: WAYNE FASSBENDER
EnvisionAir Project Number: 2023-68

Analytical Method: TO-15
Analytical Batch: 020223AIR

Client Sample ID: 6140-SG-6S
EnvisionAir Sample Number: 23-289
Sample Matrix: AIR

Sample Collection START Date/Time: 1/26/23 12:17
Sample Collection END Date/Time: 1/26/23 12:24
Sample Received Date/Time: 1/30/23 13:00

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	< 31.9	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	89%		
Analysis Date/Time:	2-3-23/04:12		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6140 - OHM WAUWATOSA
Client Project Manager: WAYNE FASSBENDER
EnvisionAir Project Number: 2023-68

Analytical Method: TO-15
Analytical Batch: 020223AIR

Client Sample ID: 6140-SG-6D
EnvisionAir Sample Number: 23-290
Sample Matrix: AIR

Sample Collection START Date/Time: 1/26/23 12:36
Sample Collection END Date/Time: 1/26/23 12:41
Sample Received Date/Time: 1/30/23 13:00

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	< 31.9	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	91%		
Analysis Date/Time:	2-3-23/04:47		
Analyst Initials	tjg		



EnvisionAir
 1441 Sadler Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 6140 - OHM WAUWATOSA
Client Project Manager: WAYNE FASSBENDER
EnvisionAir Project Number: 2023-68

Analytical Method: TO-15
Analytical Batch: 020223AIR

Client Sample ID: 6140-SG-7S
EnvisionAir Sample Number: 23-291
Sample Matrix: AIR

Sample Collection START Date/Time: 1/26/23 12:58
Sample Collection END Date/Time: 1/26/23 13:03
Sample Received Date/Time: 1/30/23 13:00

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	< 31.9	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	95%		
Analysis Date/Time:	2-3-23/05:23		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS
Project ID: 6140 - OHM WAUWATOSA
Client Project Manager: WAYNE FASSBENDER
EnvisionAir Project Number: 2023-68

Analytical Method: TO-15
Analytical Batch: 020223AIR

Client Sample ID: 6140-SG-7D
EnvisionAir Sample Number: 23-292
Sample Matrix: AIR

Sample Collection START Date/Time: 1/26/23 13:19
Sample Collection END Date/Time: 1/26/23 13:24
Sample Received Date/Time: 1/30/23 13:00

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	< 31.9	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	89%		
Analysis Date/Time:	2-3-23/05:58		
Analyst Initials	tjg		

TO-15 Quality Control Data

EnvisionAir Batch Number: 020223AIR

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>
cis-1,2-Dichloroethene	< 5	5	
Tetrachloroethene	< 0.47	0.47	
trans-1,2-Dichloroethene	< 10	10	
Trichloroethene	< 0.2	0.2	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	90%		
Analysis Date/Time:	2-2-23/13:10		
Analyst Initials	tjg		

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D Conc(ppbv)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>RPD</u>	<u>Flag</u>
Vinyl Chloride	10.7	9.97	10	107%	100%	7.1%	
trans-1,2-Dichloroethene	11.1	9.97	10	111%	100%	10.7%	
cis-1,2-Dichloroethene	10.9	10.6	10	109%	106%	2.8%	
Trichloroethene	10.5	10	10	105%	100%	4.9%	
Tetrachloroethene	9.2	9.61	10	92%	96%	4.4%	
4-bromofluorobenzene (surrogate)	92%	96%					
Analysis Date/Time:	2-2-23/11:18	2-2-23/11:57					
Analyst Initials	tjg	tjg					



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Flag Number

Comments

CHAIN OF CUSTODY RECORD

EnvisionAir | 1441 Saddle Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-0885 | Fax: (317) 351-0882

Client: **ENVIRONMENTAL FORENSICS**

Report To: **Wynne Fossbender**

Address: **Environmental Forensics, 201 OHM Center, 22050**

Report To: **Wynne Fossbender**

Phone: **62 290 4001**

Invoice Address: **ACCOSMYS**

Percolata **Environmental Forensics, 201 OHM Center, 22050**

Desired TAT: (Please Circle One) **1 day 2 days 3 days** (Std (5 bus-days))

REQUESTED PARAMETERS

TO-15 Full List
TO-15 Short List (Specify in notes)



Sampling Type:
Soil-Gas:
Sub-Slab:
Indoor-Air:

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Canister Pressure / Vacuum

Air Sample ID	Media Type (See note below)	Coll. Date (Start/End)	Coll. Time (Start/End)	Coll. Date (Comp. End)	Coll. Time (Comp. End)	Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
6140-SG-1	LC	12-23	1036	1-26-0	1042	2217	0052	-26	-5	-5	23-283
6140-SG-2			1052		1106	2098	NA	-25	-5	-5	23-284
6140-WP-5			1345		1349	84136	NA	-27	-5	-5	23-285
6140-WP-6			1330		1334	83942	0042	-28	-4	-4	23-286
6140-SG-4S			1145		1148	2221	1	-26	-4	-4	23-287
6140-SG-4D			1201		1206	2096	0083	-30	-5	-5	23-288
6140-SG-6S			1219		1224	83941	4610	-28	-4	-4	23-289
6140-SG-6D			1236		1241	83831	NA	-30	-3	-3	23-290
6140-SG-7S			1258		1303	83922	0079	-28	-4	-5	23-291
6140-SG-7D			1319		1324	86001	NA	-28	-5	-5	23-292

Comments:

Short List: PCE TCE DCE VC

Relinquished by:	Date	Time	Received by:	Date	Time
<i>[Signature]</i>	1-26-23	1630	FEDERX	1-26-23	1630
			Howden	1-30-23	1300



Beacon Environmental

2203A Commerce Road, Suite 1

Forest Hill, MD 21050 USA

1.410.838.8780

CERTIFICATE OF ANALYSIS

Beacon Proposal No.: 230117R01

Laboratory Work Order: 0006778

Project Description:

Project OHM

Wauwatosa, WI

Client PO No.: 6140

Prepared for:

Rob Hoverman

EnviroForensics

N16W23390 Stone Ridge Dr, Suite G

Waukesha, WI 53188

Ryan W. Schneider
Senior Project Manager

February 07, 2023

All data meet requirements as specified in the Beacon Environmental Quality Assurance Project Plan and the results relate only to the samples reported. The work performed was in accordance with ISO/IEC 17025:2017. This report shall not be reproduced, except in full, without written approval of the laboratory. Release of the data contained in this data package has been authorized by the Laboratory Director or his signee, as verified by the following signatures:

Steven C. Thornley
Laboratory Director

Peter B. Kelly
Quality Manager

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EnviroForensics
 N16W23390 Stone Ridge Dr, Suite G
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Site Name: Project OHM
Site Location: Wauwatosa, WI
Project Manager: Rob Hoverman

Beacon Proposal: 230117R01
Lab Work Order: 0006778
Reported: 02/07/2023

Sample Summary

Lab Sample ID	Client Sample ID	Received	Analysis	Matrix
0006778-01 Sampler Type:	6140-SG-1 Sorbent Tube	01/27/2023	TO-17 (Passive)	Sewer Gas
0006778-02 Sampler Type:	6140-SG-2 Sorbent Tube	01/27/2023	TO-17 (Passive)	Sewer Gas

Project Completeness

Samples Received: 2
Samples Analyzed: 2

EnviroForensics
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Waukesha, WI 53188

Site Name: Project OHM
Site Location: Wauwatosa, WI
Project Manager: Rob Hoverman

Beacon Proposal: 230117R01
Lab Work Order: 0006778
Reported: 02/07/2023

Case Narrative

Beacon Environmental provided thermally conditioned ChloroSorbers for sampling, with analyses following U.S. EPA Method TO-17, with analytical results reported in $\mu\text{g}/\text{m}^3$. Beacon calculated concentration results using the exposure period, target analyte mass, and the following procedures detailed in ISO 16017-2, *Indoor, ambient and workplace air-Sampling and analysis of volatile organic compounds by sorbent tube/thermal desorption/capillary gas chromatography-Part 2: Diffusive sampling*.

Beacon reports results and reporting limits to three significant digits.

Reporting Limits (RLs) for EPA Method TO-17

The RLs represent a baseline above which results meet laboratory-determined limits of precision and accuracy. Beacon performed dilution analysis when results exceeded the upper calibration limit, bringing all reported results within the calibration range. The project method quantitation limit (MQL) is the limit of detection (LOD) as noted in the data tables.

Calibration Verification

All continuing calibration verification (CCV) values are within $\pm 30\%$ of the true values as defined by the initial calibration and met the requirements specified in BEACON's Quality Manual.

Internal Standards and Surrogates

Internal standards and surrogates are spiked on all blanks (ICB, BLK), field samples and laboratory control samples (ICV/CALV, BS, ICV and CCV). Acceptance criteria for internal standards are 60 to 140 percent and surrogate recoveries are 70 to 130 percent; all internal standards and surrogates are within the acceptance criteria unless noted in the **Case Narrative**.

Blank Contamination

No targeted compounds above the limit of detection (LOD) for each compound were observed in the Laboratory Method Blanks unless noted in the **Case Narrative**.

Laboratory Control Samples

Acceptance criteria for surrogate and analytes recoveries are 70 to 130 percent; all recoveries are within the acceptance criteria unless noted in the **Case Narrative**.

Discussion

Samples were received in proper condition and laboratory control parameters were met unless otherwise noted below. The work performed was in accordance with ISO/IEC 17025:2017.

End of Case Narrative

EnviroForensics
N16W23390 Stone Ridge Dr, Suite G
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Site Name: Project OHM
Site Location: Wauwatosa, WI
Project Manager: Rob Hoverman

Beacon Proposal: 230117R01
Lab Work Order: 0006778
Reported: 02/07/2023

Analytical Results

EnviroForensics N16W23390 Stone Ridge Dr, Suite G Waukesha, WI 53188	Site Name: Project OHM Site Location: Wauwatosa, WI Project Manager: Rob Hoverman	Beacon Proposal: 230117R01 Lab Work Order: 0006778 Reported: 02/07/2023
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Summary of Compound Detections- Concentration

Lab Sample ID: 0006778-01	6140-SG-1 Sewer Gas	Method: TO-17 (Passive)
---------------------------	-------------------------------	-------------------------

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	LOD (µg/m³)	File ID
Trichloroethene	79-01-6	0.547	J	5.620	1.52	0.758	K23012705.D
Tetrachloroethene	127-18-4	41.9		7.973	1.79	0.895	K23012705.D

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Site Name: Project OHM
Site Location: Wauwatosa, WI
Project Manager: Rob Hoverman

Beacon Proposal: 230117R01
Lab Work Order: 0006778
Reported: 02/07/2023

Data Summary Table- Concentration

Compound	Frequency	LOD ($\mu\text{g}/\text{m}^3$)	Max Value ($\mu\text{g}/\text{m}^3$)
Trichloroethene	1	0.758	0.547
Tetrachloroethene	1	0.895	41.9

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Site Name: Project OHM
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Beacon Proposal: 230117R01
Lab Work Order: 0006778
Reported: 02/07/2023

Detailed Analytical Results

EnviroForensics
 N16W23390 Stone Ridge Dr, Suite G
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Site Name: Project OHM
Site Location: Wauwatosa, WI
Project Manager: Rob Hoverman

Beacon Proposal: 230117R01
Lab Work Order: 0006778
Reported: 02/07/2023

Lab Sample ID: 0006778-01

6140-SG-1

Method: TO-17 (Passive)

Sewer Gas

Analyte	CAS#	Result (µg/m ³)	Q	LOD (µg/m ³)	LOQ (µg/m ³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.879	U	0.879	1.76	01/27/2023 13:07	K23012705.D
trans-1,2-Dichloroethene	156-60-5	<0.704	U	0.704	1.41	01/27/2023 13:07	K23012705.D
cis-1,2-Dichloroethene	156-59-2	<0.704	U	0.704	1.41	01/27/2023 13:07	K23012705.D
Trichloroethene	79-01-6	0.547	J	0.758	1.52	01/27/2023 13:07	K23012705.D
Tetrachloroethene	127-18-4	41.9		0.895	1.79	01/27/2023 13:07	K23012705.D
Analyte	CAS#	% Recovery	Recovery Limits	Q		Analyzed	File ID
Surrogate: 1,2-DCA-d4	17060-07-0	72.6%	70-130			01/27/2023 13:07	K23012705.D
Surrogate: Toluene-d8	2037-26-5	79.1%	70-130			01/27/2023 13:07	K23012705.D

EnviroForensics
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Site Name: Project OHM
Site Location: Wauwatosa, WI
Project Manager: Rob Hoverman

Beacon Proposal: 230117R01
Lab Work Order: 0006778
Reported: 02/07/2023

Lab Sample ID: 0006778-02

6140-SG-2

Method: TO-17 (Passive)

Sewer Gas

Analyte	CAS#	Result (µg/m ³)	Q	LOD (µg/m ³)	LOQ (µg/m ³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.881	U	0.881	1.76	01/27/2023 13:35	K23012706.D
trans-1,2-Dichloroethene	156-60-5	<0.704	U	0.704	1.41	01/27/2023 13:35	K23012706.D
cis-1,2-Dichloroethene	156-59-2	<0.704	U	0.704	1.41	01/27/2023 13:35	K23012706.D
Trichloroethene	79-01-6	<0.759	U	0.759	1.52	01/27/2023 13:35	K23012706.D
Tetrachloroethene	127-18-4	<0.897	U	0.897	1.79	01/27/2023 13:35	K23012706.D
Analyte	CAS#	% Recovery	Recovery Limits	Q		Analyzed	File ID
Surrogate: 1,2-DCA-d4	17060-07-0	76.1%	70-130			01/27/2023 13:35	K23012706.D
Surrogate: Toluene-d8	2037-26-5	81.5%	70-130			01/27/2023 13:35	K23012706.D

EnviroForensics
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Site Name: Project OHM
Site Location: Wauwatosa, WI
Project Manager: Rob Hoverman

Beacon Proposal: 230117R01
Lab Work Order: 0006778
Reported: 02/07/2023

QC Information/Summary

EnviroForensics
 N16W23390 Stone Ridge Dr, Suite G
 Waukesha, WI 53188

Site Name: Project OHM
Site Location: Wauwatosa, WI
Project Manager: Rob Hoverman

Beacon Proposal: 230117R01
Lab Work Order: 0006778
Reported: 02/07/2023

Organics in Air by EPA TO-17 Using ChloroSorber Packed Tube - Quality Control Summary

Sequence: B22L001 - Instrument: K System - File ID: K22113017.D
B22L001-ICV1 (LCSD/Second Source Verification/CALV)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	48.7	10	5	ng	50.0		97.4	70-130			
trans-1,2-Dichloroethene	49.1	10	5	ng	50.0		98.2	70-130			
cis-1,2-Dichloroethene	50.0	10	5	ng	50.0		100	70-130			
Trichloroethene	53.0	10	5	ng	50.0		106	70-130			
Tetrachloroethene	59.6	10	5	ng	50.0		119	70-130			
<i>Surrogate: 1,2-DCA-d4</i>	<i>50.4</i>			<i>ng</i>	<i>50.0</i>		<i>101</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>53.4</i>			<i>ng</i>	<i>50.0</i>		<i>107</i>	<i>70-130</i>			

EnviroForensics
 N16W23390 Stone Ridge Dr, Suite G
 Waukesha, WI 53188

Site Name: Project OHM
Site Location: Wauwatosa, WI
Project Manager: Rob Hoverman

Beacon Proposal: 230117R01
Lab Work Order: 0006778
Reported: 02/07/2023

Organics in Air by EPA TO-17 Using ChloroSorber Packed Tube - Quality Control Summary

Sequence: B22L001 - Instrument: K System - File ID: K22113020.D
B22L001-ICB1 (Lab Blank/Initial Calibration Blank)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<5	10	5	ng							U
trans-1,2-Dichloroethene	<5	10	5	ng							U
cis-1,2-Dichloroethene	<5	10	5	ng							U
Trichloroethene	<5	10	5	ng							U
Tetrachloroethene	<5	10	5	ng							U
<i>Surrogate: 1,2-DCA-d4</i>	<i>95.2</i>			<i>ng</i>	<i>100</i>		<i>95.2</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>101</i>			<i>ng</i>	<i>100</i>		<i>101</i>	<i>70-130</i>			

EnviroForensics
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Site Name: Project OHM
Site Location: Wauwatosa, WI
Project Manager: Rob Hoverman

Beacon Proposal: 230117R01
Lab Work Order: 0006778
Reported: 02/07/2023

Organics in Air by EPA TO-17 Using ChloroSorber Packed Tube - Quality Control Summary

Sequence: B23A050 - Batch: 23A0042 - Instrument: K System - File ID: K23012702.D

23A0042-BS1 (LCS, Calibration Source Verification)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	46.1	10	5	ng	50.0		92.3	70-130			
trans-1,2-Dichloroethene	49.4	10	5	ng	50.0		98.9	70-130			
cis-1,2-Dichloroethene	51.5	10	5	ng	50.0		103	70-130			
Trichloroethene	45.7	10	5	ng	50.0		91.4	70-130			
Tetrachloroethene	63.9	10	5	ng	50.0		128	70-130			
<i>Surrogate: 1,2-DCA-d4</i>	<i>52.7</i>			<i>ng</i>	<i>50.0</i>		<i>105</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>62.7</i>			<i>ng</i>	<i>50.0</i>		<i>125</i>	<i>70-130</i>			

EnviroForensics
 N16W23390 Stone Ridge Dr, Suite G
 Waukesha, WI 53188

Site Name: Project OHM
Site Location: Wauwatosa, WI
Project Manager: Rob Hoverman

Beacon Proposal: 230117R01
Lab Work Order: 0006778
Reported: 02/07/2023

Organics in Air by EPA TO-17 Using ChloroSorber Packed Tube - Quality Control Summary

Sequence: B23A050 - Batch: 23A0042 - Instrument: K System - File ID: K23012703.D
23A0042-BLK1 (Lab Blank)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<0.221	1.76	0.879	µg/m ³							U
trans-1,2-Dichloroethene	<0.177	1.41	0.704	µg/m ³							U
cis-1,2-Dichloroethene	<0.177	1.41	0.704	µg/m ³							U
Trichloroethene	<0.191	1.52	0.758	µg/m ³							U
Tetrachloroethene	<0.225	1.79	0.895	µg/m ³							U
<i>Surrogate: 1,2-DCA-d4</i>	<i>91.0</i>			<i>ng</i>	<i>100</i>		<i>91.0</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>120</i>			<i>ng</i>	<i>100</i>		<i>120</i>	<i>70-130</i>			

EnviroForensics
 N16W23390 Stone Ridge Dr, Suite G
 Waukesha, WI 53188

Site Name: Project OHM
Site Location: Wauwatosa, WI
Project Manager: Rob Hoverman

Beacon Proposal: 230117R01
Lab Work Order: 0006778
Reported: 02/07/2023

Organics in Air by EPA TO-17 Using ChloroSorber Packed Tube - Quality Control Summary

Sequence: B23A050 - Instrument: K System - File ID: K23012704.D
B23A050-ICV1 (LCSD/Second Source Verification/CALV)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	48.3	10	5	ng	50.0		96.6	70-130			
trans-1,2-Dichloroethene	50.0	10	5	ng	50.0		100	70-130			
cis-1,2-Dichloroethene	51.4	10	5	ng	50.0		103	70-130			
Trichloroethene	47.6	10	5	ng	50.0		95.1	70-130			
Tetrachloroethene	63.4	10	5	ng	50.0		127	70-130			
<i>Surrogate: 1,2-DCA-d4</i>	<i>53.5</i>			<i>ng</i>	<i>50.0</i>		<i>107</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>62.6</i>			<i>ng</i>	<i>50.0</i>		<i>125</i>	<i>70-130</i>			

EnviroForensics N16W23390 Stone Ridge Dr, Suite G Waukesha, WI 53188	Site Name: Project OHM Site Location: Wauwatosa, WI Project Manager: Rob Hoverman	Beacon Proposal: 230117R01 Lab Work Order: 0006778 Reported: 02/07/2023
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Organics in Air by EPA TO-17 Using ChloroSorber Packed Tube - Quality Control Summary

Sequence: B23A050 - Instrument: K System - File ID: K23012707.D

B23A050-CCV1 (LCS, Closing Calibration Verification)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	48.8	10	5	ng	50.0		97.6	70-130			
trans-1,2-Dichloroethene	51.2	10	5	ng	50.0		102	70-130			
cis-1,2-Dichloroethene	52.5	10	5	ng	50.0		105	70-130			
Trichloroethene	50.7	10	5	ng	50.0		101	70-130			
Tetrachloroethene	63.3	10	5	ng	50.0		127	70-130			
<i>Surrogate: 1,2-DCA-d4</i>	<i>54.8</i>			<i>ng</i>	<i>50.0</i>		<i>110</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>62.8</i>			<i>ng</i>	<i>50.0</i>		<i>126</i>	<i>70-130</i>			

EnviroForensics
 N16W23390 Stone Ridge Dr, Suite G
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Site Name: Project OHM
Site Location: Wauwatosa, WI
Project Manager: Rob Hoverman

Beacon Proposal: 230117R01
Lab Work Order: 0006778
Reported: 02/07/2023

Organics in Air by EPA TO-17 Using ChloroSorber Packed Tube - Quality Control Summary

Sequence: B23A050 - Instrument: K System - File ID: K23012708.D
B23A050-CCB1 (Lab Blank)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<5	10	5	ng							U
trans-1,2-Dichloroethene	<5	10	5	ng							U
cis-1,2-Dichloroethene	<5	10	5	ng							U
Trichloroethene	<5	10	5	ng							U
Tetrachloroethene	<5	10	5	ng							U
<i>Surrogate: 1,2-DCA-d4</i>	<i>101</i>			<i>ng</i>	<i>100</i>		<i>101</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>123</i>			<i>ng</i>	<i>100</i>		<i>123</i>	<i>70-130</i>			

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TO-17 (Passive) - LCS/LCSD Quality Control Summary
LCS: 23A0042-BS1 File ID: K23012702.D

Analyzed: 1/27/23 12:01

LCSD: B23A050-ICV1 File ID: K23012704.D

Analyzed: 1/27/23 11:12

Analyte	CAS#	LCS Result (ng)	%REC Q	Spike Level (ng)	LCSD Result (ng)	%REC	%REC Limits	RPD	RPD Limit	Q
Vinyl Chloride	75-01-4	46.14	92.28	50	48.31	96.60	70-130	4.60	30	
trans-1,2-Dichloroethene	156-60-5	49.43	98.86	50	50	100.00	70-130	1.15	30	
cis-1,2-Dichloroethene	156-59-2	51.46	102.92	50	51.42	103.00	70-130	0.08	30	
Trichloroethene	79-01-6	45.69	91.38	50	47.55	95.10	70-130	3.99	30	
Tetrachloroethene	127-18-4	63.93	127.86	50	63.35	127.00	70-130	0.91	30	

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Additional QC Information

EnviroForensics N16W23390 Stone Ridge Dr, Suite G Waukesha, WI 53188	Site Name: Project OHM Site Location: Wauwatosa, WI Project Manager: Rob Hoverman	Beacon Proposal: 230117R01 Lab Work Order: 0006778 Reported: 02/07/2023
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Sample Result Calculation Summary (Concentration)
TO-17 (Passive)

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial Result ng	C Calculated Result µg/m ³	File ID
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Lab ID: 0006778-01	Sample Name: 6140-SG-1	̄ Temp (°C): 20.00
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Vinyl Chloride	10,095	1.00	0.563	U	U	K23012705.D
trans-1,2-Dichloroethene	10,095	1.00	0.704	U	U	K23012705.D
cis-1,2-Dichloroethene	10,095	1.00	0.704	U	U	K23012705.D
Trichloroethene	10,095	1.00	0.654	3.61	0.547	K23012705.D
Tetrachloroethene	10,095	1.00	0.553	234.10	41.9	K23012705.D

Lab ID: 0006778-02	Sample Name: 6140-SG-2	̄ Temp (°C): 20.00
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Vinyl Chloride	10,082	1.00	0.563	U	U	K23012706.D
trans-1,2-Dichloroethene	10,082	1.00	0.704	U	U	K23012706.D
cis-1,2-Dichloroethene	10,082	1.00	0.704	U	U	K23012706.D
Trichloroethene	10,082	1.00	0.654	U	U	K23012706.D
Tetrachloroethene	10,082	1.00	0.553	U	U	K23012706.D

Calculations:

$$C = \frac{1000 \times M \times DF}{U_c \times t}$$

$$U_c = U * \left(\frac{T_s + 273.15}{T_u + 273.15} \right)^{1/2}$$

- where: C = concentration (µg/m³)
 M = mass (ng)
 DF = dilution factor
 U_c = uptake rate (ml/min), corrected
 t = sampling time (minutes)
 U = compound specific uptake rate
 T_u = uptake rate study temperature
 T_s = sample average temperature

Note: T_u is 16.65°C

Reference: Federal Register/Vol. 79, No. 125/June 30, 2014

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Method Detection and Reporting Limit Calculations (Concentration)
TO-17 (Passive)

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial (ng)		C Calculated (µg/m³)	
				LOQ	LOD	LOQ	LOD

Lab ID: 0006778-01		Sample Name: 6140-SG-1			X̄ Temp (°C): 20.00		
Vinyl Chloride	10,095	1.00	0.563	10.00	5.00	1.76	0.879
trans-1,2-Dichloroethene	10,095	1.00	0.704	10.00	5.00	1.41	0.704
cis-1,2-Dichloroethene	10,095	1.00	0.704	10.00	5.00	1.41	0.704
Trichloroethene	10,095	1.00	0.654	10.00	5.00	1.52	0.758
Tetrachloroethene	10,095	1.00	0.553	10.00	5.00	1.79	0.895

Lab ID: 0006778-02		Sample Name: 6140-SG-2			X̄ Temp (°C): 20.00		
Vinyl Chloride	10,082	1.00	0.563	10.00	5.00	1.76	0.881
trans-1,2-Dichloroethene	10,082	1.00	0.704	10.00	5.00	1.41	0.704
cis-1,2-Dichloroethene	10,082	1.00	0.704	10.00	5.00	1.41	0.704
Trichloroethene	10,082	1.00	0.654	10.00	5.00	1.52	0.759
Tetrachloroethene	10,082	1.00	0.553	10.00	5.00	1.79	0.897

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Laboratory Certification List

Certification ID	Certification No.	Description	Expires	Project Required
Alaska CS-LAP	19-002	Alaska Department of Environmental Conservation	12/30/2024	
DoD-ELAP	72690/L22-563	United States Department of Defense Environmental Laboratory Accreditation	11/30/2024	
ISO/IEC 17025:2017	72690/L22-563	General Requirements for the Competence of Testing and Calibration Laboratories	11/30/2024	
NEFAP	72690/L22-564	TNI National Environmental Field Activities Program (NEFAP)	11/30/2024	
NY-NELAC	12097	New York Department of Health	04/01/2023	
Utah-NELAC	MD010912022-12	Utah Department of Health	12/31/2023	

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Qualifiers/Notes and Definitions

General Definitions:

DF	Dilution Factor
DL	Detection Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
NA	Not Applicable
Q	Qualifier
RPD	Relative Percent Difference
RT	Retention Times in Minutes
RRT	Evaluation of Relative Retention Times in RRT Units (qualified if outside ± 0.06 control limits)
3σ	Uncertainty
∉	Compound not on scope of accreditation
+	values are outside method/contract required QC limits
∅	Compound not on scope of accreditation and analyzed with a one-point calibration

Sample/Sample Receipt Qualifiers and Notes:

J	Value reported below limit of quantitation (LOQ).
U	Analyte was not detected and is reported as less than the limit of detection (LOD). The LOD has been adjusted for any dilution or concentration of the sample.

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Sample Management Records

